Analytical Data Package Prepared For

Fluor Hanford Inc.

MAR 2005
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Radiochemical Analysis By

STL Richland

2800 G.W. Way, Richland Wa, 99352, (509)-375-3131.

Assigned Laboratory Code: STLRL

Data Package Contains 103 *Pages*

Report No.: 28261

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
W04569	F05-009	B1CDF2	J5C020167-3	G5DGX1AD	9G5DGX10	5063294
		B1CDF2	J5C020167-3	G5DGX1AE	9G5DGX10	5063543
		B1CDF3	J5C020167-4	G5DG21AD	9G5DG210	5063294
		B1CDF3	J5C020167-4	G5DG21AE	9G5DG210	5063543
		B1CDF4	J5C020167-2	G5DGT1AD	9G5DGT10	5063294
		B1CDF4	J5C020167-2	G5DGT1AE	9G5DGT10	5063543
		B1CDF5	J5C020167-1	G5DGR1AD	9G5DGR10	5063294
		B1CDF5	J5C020167-1	G5DGR1AE	9G5DGR10	5063543
		B1CDF6	J5C020167-6	G5DHH1AD	9G5DHH10	5063294
		B1CDF6	J5C020167-6	G5DHH1AE	9G5DHH10	5063543
		B1CDF7	J5C020167-5	G5DHE1AD	9G5DHE10	5063294
		B1CDF7	J5C020167-5	G5DHE1AE	9G5DHE10	5063543
		B1CDF8	J5C010147-1	G494H1AD	9G494H10	5063294
		B1CDF8	J5C010147-1	G494H1AE	9G494H10	5063543
		B1CDF9	J5C030200-1	G5GDT1AD	9G5GDT10	5063294
		B1CDF9	J5C030200-1	G5GDT1AJ	9G5GDT10	5063543
		B1CDH0	J5C030200-2	G5GD71AD	9G5GD710	5063294
		B1CDH0	J5C030200-2	G5GD71AE	9G5GD710	5063543
		B1CDH1	J5C030200-3	G5GEC1AD	9G5GEC10	5063294
		B1CDH1	J5C030200-3	G5GEC1AE	9G5GEC10	5063543
		B1CDH2	J5C010147-2	G494L1AD	9G494L10	5063294
		B1CDH2	J5C010147-2	G494L1AE	9G494L10	5063543
		B1CDH3	J5C010147-3	G494N1AD	9G494N10	5063294
		B1CDH3	J5C010147-3	G494N1AE	9G494N10	5063543
		B1CF38	J5C030200-4	G5GEF1AD	9G5GEF10	5063294
		B1CF38	J5C030200-4	G5GEF1AE	9G5GEF10	5063543

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Certificate of Analysis

Fluor Hanford
P.O. Box 1000, T6-03
Richland, WA 99352

March 14, 2005

Attention: Steve Trent

SAF Number	:	F05-009
Date SDG Closed	:	March 4, 2005
Number of Samples	:	Fifteen (15)
Sample Type	:	Water
SDG Number	:	W04569
Data Deliverable	:	7-Day / 15-Day Summary

CASE NARRATIVE

I. Introduction

Between March 1, 2005 and March 4, 2005, fifteen water samples were received at STL Richland (STLR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Fluor Hanford (FH) specific IDs:

FH ID#	STLR ID#	MATRIX	DATE OF RECEIPT
B1CDF8	G494H	WATER	3/1/05
B1CDH2	G494L	WATER	3/1/05
B1CDH3	G494N	WATER	3/1/05
B1CDF5	G5DGR	WATER	3/1/05
B1CDF4	G5DGT	WATER	3/1/05
B1CDF2	G5DGX	WATER	3/1/05
B1CDF3	G5DG2	WATER	3/1/05
B1CDF7	G5DHE	WATER	3/1/05
B1CDF6	G5DHH	WATER	3/1/05
B1CDF9	G5GDT	WATER	3/3/05
B1CDH0	G5GD7	WATER	3/3/05
B1CDH1	G5GEC	WATER	3/3/05
B1CF38	G5GEF	WATER	3/3/05
B1CF72	G5KJL	WATER	3/4/05
B1CF73	G5KJT	WATER	3/4/05

II. Sample Receipt

The samples were received in good condition and no anomalies were noted during check-in. The Total Uranium analysis was cancelled for this SAF on 3/4/05 per Steve Trent.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information, analytical results and the appropriate associated statistical errors.

The requested analysis was:

Alpha Spectroscopy
Uranium-234, -235, -238 by method RUCH-RC-5067
Liquid Scintillation Counting
Technetium-99 by method RICH-RC-5078

IV. Quality Control

The analytical results for each analysis performed under SDG W04569 includes a minimum of one laboratory control sample (LCS), one method (reagent) blank, and one duplicate sample analysis. Any exceptions have been noted in the "Comments" section.

QC and sample results are reported in the same units.

V. Comments

Alpha Spectroscopy
Uranium-234, -235, -238 by method RUCH-RC-5067:
The LCS, batch blank, samples and sample duplicate (B1CF72) results are within contractual requirements.

Liquid Scintillation Counting
Technetium-99 by method RICH-RC-5078:
The LCS, batch blank, samples, sample duplicate (B1CDF9) and sample matrix spike (B1CDF9) results are within contractual requirements.

I certify that this Certificate of Analysis is in compliance with the SOW, 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 Manager, or a designee as verified by the following signature.

Reviewed and approved:

for Jackie Waddell
Becky Warrington
Project Manager

Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	**Isotope(s)**	**STL Richland's SOP number**
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr89/90	RICH-RC-5006
ASTM D2460	Total Radium	RICH-RC-5027
Standard Method 7500-U-C & ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007
NOTE:		
The Gross Alpha LCS is prepared with Am-241 (unless otherwise specified in the case narrative)		
The Gross Beta LCS is prepared with Sr/Y-90 (unless otherwise specified in the case narrative)		

Uncertainty Estimation

STL Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, R = constants * f(x,y,z,...). The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/vn), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or STL Richland.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) ***u_c - Combined Uncertainty.***	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, ***u_c the combined uncertainty.*** The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or STL Richland "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. Lc=(1.645 * Sqrt(2*(BkgrndCnt/BkgrndCntMin)/SCntMin)) * (ConvFct/(Eff*Yld*Abn*Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC|MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. MDC = (4.65 * Sqrt((BkgrndCnt/BkgrndCntMin)/SCntMin) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the **Work Order** Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt($TPUs^2$ + $TPUd^2$)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by STL Richland upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

Sample Results Summary

STL Richland STLRL

Ordered by Method, Batch No., Client Sample ID.

Date: 14-Mar-05

Report No. : 28261

SDG No: W04569

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Yield	MDC or MDA	CRDL	RPD
5063543	KWSR								
	B1CDF2								
	G5DGX1AE	U-234	7.47E-01 +- 1.80E-01		pCi/g	62%	2.70E-02	1.00E+00	
		U-235	1.81E-02 +- 1.94E-02	U	pCi/g	62%	2.28E-02	1.00E+00	
		U-238	8.05E-01 +- 1.91E-01		pCi/g	62%	2.28E-02	1.00E+00	
	B1CDF3								
	G5DG21AE	U-234	6.36E-01 +- 1.68E-01		pCi/g	54%	1.54E-02	1.00E+00	
		U-235	4.54E-02 +- 3.32E-02		pCi/g	54%	1.54E-02	1.00E+00	
		U-238	5.85E-01 +- 1.58E-01		pCi/g	54%	1.54E-02	1.00E+00	
	B1CDF4								
	G5DGT1AE	U-234	5.92E-01 +- 1.46E-01		pCi/g	68%	3.83E-02	1.00E+00	
		U-235	1.97E-02 +- 1.96E-02	U	pCi/g	68%	2.42E-02	1.00E+00	
		U-238	6.03E-01 +- 1.48E-01		pCi/g	68%	3.34E-02	1.00E+00	
	B1CDF5								
	G5DGR1AE	U-234	6.07E-01 +- 1.39E-01		pCi/g	90%	2.91E-02	1.00E+00	
		U-235	2.98E-02 +- 2.23E-02		pCi/g	90%	2.64E-02	1.00E+00	
		U-238	6.33E-01 +- 1.43E-01		pCi/g	90%	2.32E-02	1.00E+00	
	B1CDF6								
	G5DHH1AE	U-234	7.22E-01 +- 1.60E-01		pCi/g	88%	9.49E-03	1.00E+00	
		U-235	3.85E-02 +- 2.42E-02		pCi/g	88%	9.49E-03	1.00E+00	
		U-238	7.60E-01 +- 1.67E-01		pCi/g	88%	1.68E-02	1.00E+00	
	B1CDF7								
	G5DHE1AE	U-234	9.25E-01 +- 1.91E-01		pCi/g	91%	8.36E-03	1.00E+00	
		U-235	2.78E-02 +- 1.91E-02		pCi/g	91%	8.36E-03	1.00E+00	
		U-238	8.64E-01 +- 1.81E-01		pCi/g	91%	8.36E-03	1.00E+00	
	B1CDF8								
	G494H1AE	U-234	6.14E-01 +- 1.42E-01		pCi/g	84%	2.23E-02	1.00E+00	
		U-235	2.12E-03 +- 7.37E-03	U	pCi/g	84%	2.00E-02	1.00E+00	
		U-238	5.78E-01 +- 1.35E-01		pCi/g	84%	2.23E-02	1.00E+00	
	B1CDF9								
	G5GDT1AJ	U-234	6.37E-01 +- 1.47E-01		pCi/g	83%	9.98E-03	1.00E+00	
		U-235	2.95E-03 +- 7.53E-03	U	pCi/g	83%	1.76E-02	1.00E+00	
		U-238	6.14E-01 +- 1.43E-01		pCi/g	83%	1.76E-02	1.00E+00	
	B1CDH0								
	G5GD71AE	U-234	4.68E-01 +- 1.11E-01		pCi/g	85%	1.53E-02	1.00E+00	
		U-235	2.23E-02 +- 1.73E-02		pCi/g	85%	8.63E-03	1.00E+00	
		U-238	4.72E-01 +- 1.12E-01		pCi/g	85%	8.63E-03	1.00E+00	
	B1CDH1								
	G5GEC1AE	U-234	6.93E-01 +- 1.51E-01		pCi/g	99%	1.96E-02	1.00E+00	

STL Richland

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RPD - Relative Percent Difference.

U Qual - Analyzed for, but the result is less than the Mdc/Mda/Total Uncert or gamma scan software did not identify the nuclide.

Sample Results Summary

STL Richland STLRL

Ordered by Method, Batch No., Client Sample ID.

Date: 14-Mar-05

Report No. : 28261

SDG No: W04569

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Yield	MDC or MDA	CRDL	RPD
5063543 KWSR									
B1CDH1									
	G5GEC1AE	U-235	1.12E-02 +- 1.27E-02	U	pCi/g	99%	1.75E-02	1.00E+00	
		U-238	7.61E-01 +- 1.63E-01		pCi/g	99%	1.96E-02	1.00E+00	
B1CDH2									
	G494L1AE	U-234	1.23E+00 +- 2.67E-01		pCi/g	66%	2.61E-02	1.00E+00	
		U-235	4.53E-02 +- 3.04E-02		pCi/g	66%	2.21E-02	1.00E+00	
		U-238	1.06E+00 +- 2.36E-01		pCi/g	66%	2.92E-02	1.00E+00	
B1CDH3									
	G494N1AE	U-234	7.77E-01 +- 1.69E-01		pCi/g	86%	3.03E-02	1.00E+00	
		U-235	2.57E-02 +- 1.98E-02		pCi/g	86%	1.92E-02	1.00E+00	
		U-238	7.66E-01 +- 1.67E-01		pCi/g	86%	2.49E-02	1.00E+00	
B1CF38									
	G5GEF1AE	U-234	6.63E-01 +- 1.52E-01		pCi/g	83%	1.75E-02	1.00E+00	
		U-235	3.65E-02 +- 2.39E-02		pCi/g	83%	9.89E-03	1.00E+00	
		U-238	5.93E-01 +- 1.39E-01		pCi/g	83%	2.30E-02	1.00E+00	
B1CF72									
	G5KJL1AE	U-234	6.31E-01 +- 1.47E-01		pCi/g	78%	3.36E-02	1.00E+00	
		U-235	3.60E-02 +- 2.46E-02		pCi/g	78%	2.12E-02	1.00E+00	
		U-238	6.87E-01 +- 1.57E-01		pCi/g	78%	2.76E-02	1.00E+00	
B1CF72 DUP									
	G5KJL1AG	U-234	6.23E-01 +- 1.50E-01		pCi/g	70%	3.56E-02	1.00E+00	1.3
		U-235	4.47E-02 +- 3.01E-02		pCi/g	70%	3.23E-02	1.00E+00	21.6
		U-238	6.89E-01 +- 1.62E-01		pCi/g	70%	2.85E-02	1.00E+00	0.2
B1CF73									
	G5KJT1AE	U-234	2.49E+00 +- 4.80E-01		pCi/g	72%	3.52E-02	1.00E+00	
		U-235	6.93E-02 +- 3.56E-02		pCi/g	72%	2.23E-02	1.00E+00	
		U-238	2.51E+00 +- 4.85E-01		pCi/g	72%	3.38E-02	1.00E+00	
5063294 TC99_ETVDSK_LSC									
B1CDF2									
	G5DGX1AD	TC-99	-1.26E-01 +- 3.47E-01	U	pCi/g	100%	6.42E-01	1.50E+01	
B1CDF3									
	G5DG21AD	TC-99	-1.39E-01 +- 3.46E-01	U	pCi/g	100%	6.42E-01	1.50E+01	
B1CDF4									
	G5DGT1AD	TC-99	-2.11E-01 +- 3.25E-01	U	pCi/g	100%	6.12E-01	1.50E+01	
B1CDF5									
	G5DGR1AD	TC-99	-5.22E-02 +- 3.20E-01	U	pCi/g	100%	5.87E-01	1.50E+01	
B1CDF6									
	G5DHH1AD	TC-99	-3.82E-02 +- 3.52E-01	U	pCi/g	100%	6.42E-01	1.50E+01	
B1CDF7									

STL Richland

rptSTLRchSaSummary2 V4.11 A97

RPD - Relative Percent Difference.

U Qual - Analyzed for, but the result is less than the Mdc/Mda|Total Uncert or gamma scan software did not identify the nuclide.

Sample Results Summary

STL Richland STLRL

Ordered by Method, Batch No., Client Sample ID.

Date: 14-Mar-05

Report No. : 28261

SDG No: W04569

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Yield	MDC or MDA	CRDL	RPD
5063294	TC99_ETVDSK_LSC								
	B1CDF7								
	G5DHE1AD	TC-99	5.00E-02 +- 3.25E-01	U	pCi/g	100%	5.84E-01	1.50E+01	
	B1CDF8								
	G494H1AD	TC-99	-1.41E-01 +- 3.14E-01	U	pCi/g	100%	5.85E-01	1.50E+01	
	B1CDF9								
	G5GDT1AD	TC-99	-3.21E-02 +- 3.53E-01	U	pCi/g	100%	6.46E-01	1.50E+01	
	B1CDF9 DUP								
	G5GDT1AG	TC-99	1.10E-02 +- 3.55E-01	U	pCi/g	100%	6.42E-01	1.50E+01	-409.7
	B1CDH0								
	G5GD71AD	TC-99	-2.41E-02 +- 3.36E-01	U	pCi/g	100%	6.12E-01	1.50E+01	
	B1CDH1								
	G5GEC1AD	TC-99	5.54E-02 +- 3.58E-01	U	pCi/g	100%	6.48E-01	1.50E+01	
	B1CDH2								
	G494L1AD	TC-99	4.97E-02 +- 3.40E-01	U	pCi/g	100%	6.12E-01	1.50E+01	
	B1CDH3								
	G494N1AD	TC-99	-7.11E-03 +- 3.54E-01	U	pCi/g	100%	6.42E-01	1.50E+01	
	B1CF38								
	G5GEF1AD	TC-99	1.72E-01 +- 3.64E-01	U	pCi/g	100%	6.42E-01	1.50E+01	
	B1CF72								
	G5KJL1AC	TC-99	1.32E-02 +- 3.56E-01	U	pCi/g	100%	6.47E-01	1.50E+01	
	B1CF73								
	G5KJT1AC	TC-99	-1.77E-01 +- 3.28E-01	U	pCi/g	100%	6.13E-01	1.50E+01	

No. of Results: 64

RPD - Relative Percent Difference.

U Qual - Analyzed for, but the result is less than the Mdc/Mda|Total Uncert or gamma scan software did not identify the nuclide.

QC Results Summary

STL Richland STLRL

Ordered by Method, Batch No, QC Type,.

Date: 14-Mar-05

Report No. : 28261

SDG No.: W04569

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Yield	Recovery	Bias	MDC|MDA
KWSR								
5063543 BLANK QC								
G5L1G1AA	U-234	2.64E-02 +- 2.00E-02		pCi/g	93%			2.21E-02
	U-235	-6.44E-04 +- 1.29E-03	U	pCi/g	93%			1.54E-02
	U-238	2.51E-02 +- 1.87E-02		pCi/g	93%			1.54E-02
5063543 LCS								
G5L1G1AC	U-234	1.59E+00 +- 3.07E-01		pCi/g	97%	97%	0.0	1.52E-02
	U-238	1.65E+00 +- 3.17E-01		pCi/g	97%	96%	0.0	8.61E-03
TC99_ETVDSK_LSC								
5063294 MATRIX SPIKE								
G5GDT1AF	TC-99	1.88E+02 +- 1.11E+01		pCi/g	100%	83%	-0.2	6.46E-01
5063294 BLANK QC								
G5JXF1AA	TC-99	1.20E-01 +- 3.61E-01	U	pCi/g	100%			6.43E-01
5063294 LCS								
G5JXF1AC	TC-99	1.97E+02 +- 1.16E+01		pCi/g	100%	87%	-0.1	6.43E-01

No. of Results: 8

STL Richland
rptSTLRchQcSummary V4.11 A97

Bias - (Result/Expected)-1 as defined by ANSI N13.30.
U Qual - Analyzed for, but the result is less than the Mdc/Mda|Total Uncert or gamma scan software did not identify the nuclide.

FORM I

SAMPLE RESULTS

Date: 14-Mar-05

Lab Name:	STL Richland	SDG:	W04569	Collection Date:	3/1/2005 8:50:00 AM
Lot-Sample No.:	J5C020167-3	Report No. :	28261	Received Date:	3/1/2005 2:00:00 PM
Client Sample ID:	B1CDF2	COC No. :	F05-009-025	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5063294	TC99_ETVDSK_LSC			Work Order: G5DGX1AD		Report DB ID: 9G5DGX10						
TC-99	***-1.26E-01***	U	2.61E-01	3.47E-01	6.42E-01	pCi/g	100%	*-0.2*	3/11/05 02:43 a		2.0	LSC4
						3.09E-01	1.50E+01	*-0.73*			G	
Batch: 5063543	KWSR			Work Order: G5DGX1AE		Report DB ID: 9G5DGX10						
U-234	***7.47E-01***			1.80E-01	2.70E-02	pCi/g	62%	*(27.7)*	3/10/05 03:40 p		2.03	ALP6
						7.02E-03	1.00E+00	*(8.3)*			G	
U-235	***1.81E-02***	U		1.94E-02	2.28E-02	pCi/g	62%	*0.79*	3/10/05 03:40 p		2.03	ALP6
						4.96E-03	1.00E+00	*(1.9)*			G	
U-238	***8.05E-01***			1.91E-01	2.28E-02	pCi/g	62%	*(35.2)*	3/10/05 03:40 p		2.03	ALP6
						4.96E-03	1.00E+00	*(8.4)*			G	

Ratio U-234/238 = 0.9

No. of Results: 4 Comments:

STL Richland
rptSTLRchSample
V4.11 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for, but the result is less than the Mdc/Mda|Total Uncert or gamma scan software did not identify the nuclide.

FORM I

SAMPLE RESULTS

Date: 14-Mar-05

Lab Name:	STL Richland	**SDG:**	W04569	**Collection Date:**	3/1/2005 9:50:00 AM
Lot-Sample No.:	J5C020167-4	**Report No. :**	28261	**Received Date:**	3/1/2005 2:00:00 PM
Client Sample ID:	B1CDF3	**COC No. :**	F05-009-026	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5063294	TC99_ETVDSK_LSC			**Work Order:**	G5DG21AD		**Report DB ID:**	9G5DG210				
TC-99	***-1.39E-01***	U	2.61E-01	3.46E-01	6.42E-01	pCi/g	100%	*-0.22*	3/11/05 03:45 a		2.0	LSC4
						3.09E-01	1.50E+01	*-0.8*			G	
Batch: 5063543	KWSR			**Work Order:**	G5DG21AE		**Report DB ID:**	9G5DG210				
U-234	***6.36E-01***			1.68E-01	1.54E-02	pCi/g	54%	*(41.3)*	3/10/05 03:41 p		2.0	ALP7
							1.00E+00	*(7.6)*			G	
U-235	***4.54E-02***			3.32E-02	1.54E-02	pCi/g	54%	*(3.)*	3/10/05 03:41 p		2.0	ALP7
							1.00E+00	*(2.7)*			G	
U-238	***5.85E-01***			1.58E-01	1.54E-02	pCi/g	54%	*(38.)*	3/10/05 03:41 p		2.0	ALP7
							1.00E+00	*(7.4)*			G	

Ratio U-234/238 = 1.1

No. of Results: 4 **Comments:**

STL Richland
rptSTLRchSample
V4.11 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for, but the result is less than the Mdc/Mda|Total Uncert or gamma scan software did not identify the nuclide.

FORM I

SAMPLE RESULTS

Date: 14-Mar-05

Lab Name:	STL Richland	SDG:	W04569	Collection Date:	3/1/2005 10:30:00 AM
Lot-Sample No.:	J5C020167-2	Report No. :	28261	Received Date:	3/1/2005 2:00:00 PM
Client Sample ID:	B1CDF4	COC No. :	F05-009-027	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5063294	TC99_ETVDSK_LSC			Work Order:	G5DGT1AD		Report DB ID:	9G5DGT10				
TC-99	***-2.11E-01***	U	2.45E-01	3.25E-01	6.12E-01	pCi/g	100%	*-0.35*	3/11/05 01:41 a		2.1	LSC4
						2.94E-01	1.50E+01	*-(1.3)*			G	
Batch: 5063543	KWSR			Work Order:	G5DGT1AE		Report DB ID:	9G5DGT10				
U-234	***5.92E-01***			1.46E-01	3.83E-02	pCi/g	68%	*(15.4)*	3/10/05 03:40 p		2.0	ALP5
						1.34E-02	1.00E+00	*(8.1)*			G	
U-235	***1.97E-02***	U		1.96E-02	2.42E-02	pCi/g	68%	*0.81*	3/10/05 03:40 p		2.0	ALP5
						6.30E-03	1.00E+00	*(2.)*			G	
U-238	***6.03E-01***			1.48E-01	3.34E-02	pCi/g	68%	*(18.)*	3/10/05 03:40 p		2.0	ALP5
						1.09E-02	1.00E+00	*(8.2)*			G	

Ratio U-234/238 = 1.0

No. of Results: 4 Comments:

STL Richland
rptSTLRchSample
V4.11 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for, but the result is less than the Mdc/Mda|Total Uncert or gamma scan software did not identify the nuclide.

FORM I

SAMPLE RESULTS

Date: 14-Mar-05

Lab Name:	STL Richland	SDG:	W04569	Collection Date:	3/1/2005 11:10:00 AM
Lot-Sample No.:	J5C020167-1	Report No. :	28261	Received Date:	3/1/2005 2:00:00 PM
Client Sample ID:	B1CDF5	COC No. :	F05-009-028	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5063294	TC99_ETVDSK_LSC			Work Order: G5DGR1AD		Report DB ID: 9G5DGR10						
TC-99	***-5.22E-02***	U	2.40E-01	3.20E-01	5.87E-01	pCi/g	100%	*-0.09*	3/11/05 12:39 a		2.2	LSC4
						2.82E-01	1.50E+01	*-0.33*			G	
Batch: 5063543	KWSR			Work Order: G5DGR1AE		Report DB ID: 9G5DGR10						
U-234	***6.07E-01***			1.39E-01	2.91E-02	pCi/g	90%	*(20.9)*	3/10/05 03:40 p		2.0	ALP4
						9.96E-03	1.00E+00	*(8.7)*			G	
U-235	***2.98E-02***			2.23E-02	2.64E-02	pCi/g	90%	*(1.1)*	3/10/05 03:40 p		2.0	ALP4
						8.63E-03	1.00E+00	*(2.7)*			G	
U-238	***6.33E-01***			1.43E-01	2.32E-02	pCi/g	90%	*(27.2)*	3/10/05 03:40 p		2.0	ALP4
						7.04E-03	1.00E+00	*(8.8)*			G	

Ratio U-234/238 = 1.0

No. of Results: 4 Comments:

STL Richland
rptSTLRchSample
V4.11 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for, but the result is less than the Mdc/Mda|Total Uncert or gamma scan software did not identify the nuclide.

FORM I

SAMPLE RESULTS

Date: 14-Mar-05

Lab Name:	STL Richland	SDG:	W04569	Collection Date:	2/24/2005 1:30:00 PM
Lot-Sample No.:	J5C020167-6	Report No. :	28261	Received Date:	3/1/2005 9:20:00 AM
Client Sample ID:	B1CDF6	COC No. :	F05-009-030	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5063294	TC99_ETVDSK_LSC			Work Order:	G5DHH1AD		Report DB ID:	9G5DHH10				
TC-99	*-3.82E-02*	U	2.64E-01	3.52E-01	6.42E-01	pCi/g	100%	*-0.06*	3/11/05 05:50 a		2.0	LSC4
						3.09E-01	1.50E+01	*-0.22*			G	
Batch: 5063543	KWSR			Work Order:	G5DHH1AE		Report DB ID:	9G5DHH10				
U-234	*7.22E-01*			1.60E-01	9.49E-03	pCi/g	88%	*(76.)*	3/10/05 03:41 p		2.0	ALP9
							1.00E+00	*(9.)*			G	
U-235	*3.85E-02*			2.42E-02	9.49E-03	pCi/g	88%	*(4.1)*	3/10/05 03:41 p		2.0	ALP9
							1.00E+00	*(3.2)*			G	
U-238	*7.60E-01*			1.67E-01	1.68E-02	pCi/g	88%	*(45.3)*	3/10/05 03:41 p		2.0	ALP9
						3.65E-03	1.00E+00	*(9.1)*			G	

Ratio U-234/238 = 1.0

No. of Results: 4 Comments:

STL Richland
rptSTLRchSample
V4.11 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for, but the result is less than the Mdc/Mda|Total Uncert or gamma scan software did not identify the nuclide.

FORM I

SAMPLE RESULTS

Date: 14-Mar-05

Lab Name:	STL Richland	**SDG:**	W04569	**Collection Date:**	2/25/2005 9:40:00 AM
Lot-Sample No.:	J5C020167-5	**Report No. :**	28261	**Received Date:**	3/1/2005 9:20:00 AM
Client Sample ID:	B1CDF7	**COC No. :**	F05-009-030	**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5063294	TC99_ETVDSK_LSC			**Work Order:** G5DHE1AD			**Report DB ID:** 9G5DHE10					
TC-99	***5.00E-02***	U	2.43E-01	3.25E-01	5.84E-01	pCi/g	100%	*0.09*	3/11/05 04:48 a		2.2	LSC4
						2.81E-01	1.50E+01	*0.31*			G	
Batch: 5063543	KWSR			**Work Order:** G5DHE1AE			**Report DB ID:** 9G5DHE10					
U-234	***9.25E-01***			1.91E-01	8.36E-03	pCi/g	91%	*(110.7)*	3/10/05 03:41 p		2.1	ALP8
							1.00E+00	*(9.7)*			G	
U-235	***2.78E-02***			1.91E-02	8.36E-03	pCi/g	91%	*(3.3)*	3/10/05 03:41 p		2.1	ALP8
							1.00E+00	*(2.9)*			G	
U-238	***8.64E-01***			1.81E-01	8.36E-03	pCi/g	91%	*(103.3)*	3/10/05 03:41 p		2.1	ALP8
							1.00E+00	*(9.6)*			G	

Ratio U-234/238 = 1.1

No. of Results: 4 **Comments:**

STL Richland
rptSTLRchSample
V4.11 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for, but the result is less than the Mdc/Mda|Total Uncert or gamma scan software did not identify the nuclide.

FORM I

SAMPLE RESULTS

Date: 14-Mar-05

Lab Name:	STL Richland	SDG:	W04569	Collection Date:	2/28/2005 4:10:00 PM
Lot-Sample No.:	J5C010147-1	Report No. :	28261	Received Date:	3/1/2005 9:30:00 AM
Client Sample ID:	B1CDF8	COC No. :		Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5063294	TC99_ETVDSK_LSC			Work Order:	G494H1AD		Report DB ID: 9G494H10					
TC-99	*-1.41E-01*	U	2.37E-01	3.14E-01	5.85E-01	pCi/g	100%	*-0.24*	3/10/05 09:32 p		2.2	LSC4
						2.81E-01	1.50E+01	*-0.9*			G	
Batch: 5063543	KWSR			Work Order:	G494H1AE		Report DB ID: 9G494H10					
U-234	*6.14E-01*			1.42E-01	2.23E-02	pCi/g	84%	*(27.5)*	3/10/05 03:38 p		2.07	ALP1
						6.38E-03	1.00E+00	*(8.7)*			G	
U-235	*2.12E-03*	U		7.37E-03	2.00E-02	pCi/g	84%	*0.11*	3/10/05 03:38 p		2.07	ALP1
						5.21E-03	1.00E+00	*0.58*			G	
U-238	*5.78E-01*			1.35E-01	2.23E-02	pCi/g	84%	*(25.9)*	3/10/05 03:38 p		2.07	ALP1
						6.38E-03	1.00E+00	*(8.5)*			G	

Ratio U-234/238 = 1.1

No. of Results: 4 Comments:

STL Richland
rptSTLRchSample
V4.11 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for, but the result is less than the Mdc/Mda|Total Uncert or gamma scan software did not identify the nuclide.

FORM I

SAMPLE RESULTS

Date: 14-Mar-05

Lab Name:	STL Richland	SDG:	W04569	Collection Date:	3/2/2005 10:00:00 AM
Lot-Sample No.:	J5C030200-1	Report No. :	28261	Received Date:	3/3/2005 8:55:00 AM
Client Sample ID:	B1CDF9	COC No. :		Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5063294	TC99_ETVDSK_LSC			Work Order: G5GDT1AD		Report DB ID: 9G5GDT10						
TC-99	*-3.21E-02*	U	2.65E-01	3.53E-01	6.46E-01	pCi/g	100%	*-0.05*	3/11/05 06:52 a		2.0	LSC4
						3.10E-01	1.50E+01	*-0.18*			G	
Batch: 5063543	KWSR			Work Order: G5GDT1AJ		Report DB ID: 9G5GDT10						
U-234	*6.37E-01*			1.47E-01	9.98E-03	pCi/g	83%	*(63.8)*	3/10/05 03:42 p		2.0	ALP10
							1.00E+00	*(8.7)*			G	
U-235	*2.95E-03*	U		7.53E-03	1.76E-02	pCi/g	83%	*0.17*	3/10/05 03:42 p		2.0	ALP10
						3.83E-03	1.00E+00	*0.78*			G	
U-238	*6.14E-01*			1.43E-01	1.76E-02	pCi/g	83%	*(34.8)*	3/10/05 03:42 p		2.0	ALP10
						3.83E-03	1.00E+00	*(8.6)*			G	

Ratio U-234/238 = 1.0

No. of Results: 4 Comments:

STL Richland
rptSTLRchSample
V4.11 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for, but the result is less than the Mdc/Mda|Total Uncert or gamma scan software did not identify the nuclide.

FORM I

SAMPLE RESULTS

Date: 14-Mar-05

Lab Name:	STL Richland	**SDG:**	W04569	**Collection Date:**	3/2/2005 12:40:00 PM
Lot-Sample No.:	J5C030200-2	**Report No. :**	28261	**Received Date:**	3/3/2005 8:55:00 AM
Client Sample ID:	B1CDH0	**COC No. :**		**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5063294	TC99_ETVDSK_LSC			**Work Order:** G5GD71AD			**Report DB ID:** 9G5GD710					
TC-99	***-2.41E-02***	U	2.52E-01	3.36E-01	6.12E-01	pCi/g	100%	*-0.04*	3/11/05 11:01 a		2.1	LSC4
						2.94E-01	1.50E+01	*-0.14*			G	
Batch: 5063543	KWSR			**Work Order:** G5GD71AE			**Report DB ID:** 9G5GD710					
U-234	***4.68E-01***			1.11E-01	1.53E-02	pCi/g	85%	*(30.6)*	3/10/05 03:42 p		2.03	ALP11
						3.32E-03	1.00E+00	*(8.4)*			G	
U-235	***2.23E-02***			1.73E-02	8.63E-03	pCi/g	85%	*(2.6)*	3/10/05 03:42 p		2.03	ALP11
							1.00E+00	*(2.6)*			G	
U-238	***4.72E-01***			1.12E-01	8.63E-03	pCi/g	85%	*(54.6)*	3/10/05 03:42 p		2.03	ALP11
							1.00E+00	*(8.4)*			G	

Ratio U-234/238 = 1.0

No. of Results: 4 **Comments:**

STL Richland
rptSTLRchSample
V4.11 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for, but the result is less than the Mdc/Mda|Total Uncert or gamma scan software did not identify the nuclide.

FORM I

SAMPLE RESULTS

Date: 14-Mar-05

Lab Name:	STL Richland	SDG:	W04569	Collection Date:	3/2/2005 3:30:00 PM
Lot-Sample No.:	J5C030200-3	Report No. :	28261	Received Date:	3/3/2005 8:55:00 AM
Client Sample ID:	B1CDH1	COC No. :		Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5063294	TC99_ETVDSK_LSC			Work Order:	G5GEC1AD		Report DB ID:	9G5GEC10				
TC-99	***5.54E-02***	U	2.69E-01	3.58E-01	6.48E-01	pCi/g	100%	*0.09*	3/11/05 12:03 p		2.0	LSC4
						3.11E-01	1.50E+01	*0.31*			G	
Batch: 5063543	KWSR			Work Order:	G5GEC1AE		Report DB ID:	9G5GEC10				
U-234	***6.93E-01***			1.51E-01	1.96E-02	pCi/g	99%	*(35.4)*	3/10/05 07:46 p		2.0	ALP1
						5.59E-03	1.00E+00	*(9.2)*			G	
U-235	***1.12E-02***	U		1.27E-02	1.75E-02	pCi/g	99%	*0.64*	3/10/05 07:46 p		2.0	ALP1
						4.57E-03	1.00E+00	*(1.8)*			G	
U-238	***7.61E-01***			1.63E-01	1.96E-02	pCi/g	99%	*(38.9)*	3/10/05 07:46 p		2.0	ALP1
						5.59E-03	1.00E+00	*(9.4)*			G	

Ratio U-234/238 = 0.9

No. of Results: 4 Comments:

STL Richland
rptSTLRchSample
V4.11 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for, but the result is less than the Mdc/Mda|Total Uncert or gamma scan software did not identify the nuclide.

FORM I

SAMPLE RESULTS

Date: 14-Mar-05

Lab Name:	STL Richland	SDG:	W04569	Collection Date:	2/28/2005 9:30:00 AM
Lot-Sample No.:	J5C010147-2	Report No. :	28261	Received Date:	3/1/2005 9:30:00 AM
Client Sample ID:	B1CDH2	COC No. :		Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5063294	TC99_ETVDSK_LSC			Work Order: G494L1AD		Report DB ID: 9G494L10						
TC-99	***4.97E-02***	U	2.55E-01	3.40E-01	6.12E-01	pCi/g	100%	*0.08*	3/10/05 10:34 p		2.1	LSC4
						2.94E-01	1.50E+01	*0.29*			G	
Batch: 5063543	KWSR			Work Order: G494L1AE		Report DB ID: 9G494L10						
U-234	***1.23E+00***			2.67E-01	2.61E-02	pCi/g	66%	*(47.)*	3/10/05 03:39 p		2.05	ALP2
						6.80E-03	1.00E+00	*(9.2)*			G	
U-235	***4.53E-02***			3.04E-02	2.21E-02	pCi/g	66%	*(2.)*	3/10/05 03:39 p		2.05	ALP2
						4.81E-03	1.00E+00	*(3.)*			G	
U-238	***1.06E+00***			2.36E-01	2.92E-02	pCi/g	66%	*(36.3)*	3/10/05 03:39 p		2.05	ALP2
						8.33E-03	1.00E+00	*(9.)*			G	

Ratio U-234/238 = 1.2

No. of Results: 4 Comments:

STL Richland
rptSTLRchSample
V4.11 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for, but the result is less than the Mdc/Mda|Total Uncert or gamma scan software did not identify the nuclide.

FORM I

SAMPLE RESULTS

Date: 14-Mar-05

Lab Name:	STL Richland	SDG:	W04569	Collection Date:	2/28/2005 1:00:00 PM
Lot-Sample No.:	J5C010147-3	Report No. :	28261	Received Date:	3/1/2005 9:30:00 AM
Client Sample ID:	B1CDH3	COC No. :		Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5063294	TC99_ETVDSK_LSC			Work Order: G494N1AD		Report DB ID: 9G494N10						
TC-99	*-7.11E-03*	U	2.65E-01	3.54E-01	6.42E-01	pCi/g	100%	*-0.01*	3/10/05 11:37 p		2.0	LSC4
						3.09E-01	1.50E+01	*-0.04*			G	
Batch: 5063543	KWSR			Work Order: G494N1AE		Report DB ID: 9G494N10						
U-234	*7.77E-01*			1.69E-01	3.03E-02	pCi/g	86%	*(25.6)*	3/10/05 03:39 p		2.02	ALP3
						1.06E-02	1.00E+00	*(9.2)*			G	
U-235	*2.57E-02*			1.98E-02	1.92E-02	pCi/g	86%	*(1.3)*	3/10/05 03:39 p		2.02	ALP3
						4.99E-03	1.00E+00	*(2.6)*			G	
U-238	*7.66E-01*			1.67E-01	2.49E-02	pCi/g	86%	*(30.7)*	3/10/05 03:39 p		2.02	ALP3
						7.89E-03	1.00E+00	*(9.2)*			G	

Ratio U-234/238 = 1.0

No. of Results: 4 Comments:

STL Richland
rptSTLRchSample
V4.11 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for, but the result is less than the Mdc/Mda|Total Uncert or gamma scan software did not identify the nuclide.

FORM I

SAMPLE RESULTS

Date: 14-Mar-05

Lab Name:	STL Richland	**SDG:**	W04569	**Collection Date:**	3/2/2005 10:00:00 AM
Lot-Sample No.:	J5C030200-4	**Report No. :**	28261	**Received Date:**	3/3/2005 8:55:00 AM
Client Sample ID:	B1CF38	**COC No. :**		**Matrix:**	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5063294	TC99_ETVDSK_LSC			**Work Order:** G5GEF1AD			**Report DB ID:** 9G5GEF10					
TC-99	***1.72E-01***	U	2.71E-01	3.64E-01	6.42E-01	pCi/g	100%	*0.27*	3/11/05 01:05 p		2.0	LSC4
						3.09E-01	1.50E+01	*0.94*			G	
Batch: 5063543	KWSR			**Work Order:** G5GEF1AE			**Report DB ID:** 9G5GEF10					
U-234	***6.63E-01***			1.52E-01	1.75E-02	pCi/g	83%	*(38.)*	3/10/05 07:46 p		2.06	ALP2
						3.80E-03	1.00E+00	*(8.7)*			G	
U-235	***3.65E-02***			2.39E-02	9.89E-03	pCi/g	83%	*(3.7)*	3/10/05 07:46 p		2.06	ALP2
							1.00E+00	*(3.)*			G	
U-238	***5.93E-01***			1.39E-01	2.30E-02	pCi/g	83%	*(25.7)*	3/10/05 07:46 p		2.06	ALP2
						6.58E-03	1.00E+00	*(8.5)*			G	

Ratio U-234/238 = 1.1

No. of Results: 4 **Comments:**

STL Richland
rptSTLRchSample
V4.11 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for, but the result is less than the Mdc/Mda|Total Uncert or gamma scan software did not identify the nuclide.

FORM I

SAMPLE RESULTS

Date: 14-Mar-05

Lab Name:	STL Richland	SDG:	W04569	Collection Date:	3/3/2005 11:00:00 AM
Lot-Sample No.:	J5C040248-1	Report No. :	28261	Received Date:	3/4/2005 11:30:00 AM
Client Sample ID:	B1CF72	COC No. :	F05-009-086	Matrix:	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5063294	TC99_ETVDSK_LSC			Work Order: G5KJL1AC		Report DB ID: 9G5KJL10						
TC-99	***1.32E-02***	U	2.67E-01	3.56E-01	6.47E-01	pCi/g	100%	*0.02*	3/11/05 04:12 p		2.0	LSC4
						3.11E-01	1.50E+01	*0.07*			G	
Batch: 5063543	KWSR			Work Order: G5KJL1AE		Report DB ID: 9G5KJL10						
U-234	***6.31E-01***			1.47E-01	3.36E-02	pCi/g	78%	*(18.8)*	3/10/05 07:46 p		2.0	ALP3
						1.17E-02	1.00E+00	*(8.6)*			G	
U-235	***3.60E-02***			2.46E-02	2.12E-02	pCi/g	78%	*(1.7)*	3/10/05 07:46 p		2.0	ALP3
						5.53E-03	1.00E+00	*(2.9)*			G	
U-238	***6.87E-01***			1.57E-01	2.76E-02	pCi/g	78%	*(24.9)*	3/10/05 07:46 p		2.0	ALP3
						8.74E-03	1.00E+00	*(8.7)*			G	

Ratio U-234/238 = 0.9

No. of Results: 4 Comments:

STL Richland
rptSTLRchSample
V4.11 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for, but the result is less than the Mdc/Mda|Total Uncert or gamma scan software did not identify the nuclide.

FORM I

SAMPLE RESULTS

Date: 14-Mar-05

Lab Name:	STL Richland	**SDG:**	W04569	**Collection Date:**	3/3/2005 1:50:00 PM
Lot-Sample No.:	J5C040248-2	**Report No. :**	28261	**Received Date:**	3/4/2005 11:30:00 AM
Client Sample ID:	B1CF73	**COC No. :**	F05-009-087	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5063294	TC99_ETVDSK_LSC			**Work Order:** G5KJT1AC		**Report DB ID:** 9G5KJT10						
TC-99	***-1.77E-01***	U	2.47E-01	3.28E-01	6.13E-01	pCi/g	100%	*-0.29*	3/11/05 05:14 p		2.1	LSC4
						2.95E-01	1.50E+01	*-(1.1)*			G	
Batch: 5063543	KWSR			**Work Order:** G5KJT1AE		**Report DB ID:** 9G5KJT10						
U-234	***2.49E+00***			4.80E-01	3.52E-02	pCi/g	72%	*(70.6)*	3/10/05 07:47 p		2.04	ALP5
						1.23E-02	1.00E+00	*(10.4)*			G	
U-235	***6.93E-02***			3.56E-02	2.23E-02	pCi/g	72%	*(3.1)*	3/10/05 07:47 p		2.04	ALP5
						5.80E-03	1.00E+00	*(3.9)*			G	
U-238	***2.51E+00***			4.85E-01	3.38E-02	pCi/g	72%	*(74.3)*	3/10/05 07:47 p		2.04	ALP5
						1.16E-02	1.00E+00	*(10.4)*			G	

Ratio U-234/238 = 1.0

No. of Results: 4 **Comments:**

STL Richland
rptSTLRchSample
V4.11 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for, but the result is less than the Mdc/Mda|Total Uncert or gamma scan software did not identify the nuclide.

FORM II

Date: 14-Mar-05

DUPLICATE RESULTS

Lab Name:	STL Richland	SDG:	W04569	Collection Date:	3/2/2005 10:00:00 AM
Lot-Sample No.:	J5C030200-1	Report No. :	28261	Received Date:	3/3/2005 8:55:00 AM
Client Sample ID:	B1CDF9 DUP	COC No. :		Matrix:	SOIL

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5063294	TC99_ETVDSK_LSC			Work Order: G5GDT1AG		Report DB ID: G5GDT1GR			Orig Sa DB ID: 9G5GDT10			
TC-99	1.10E-02	U	2.66E-01	3.55E-01	6.42E-01	pCi/g	100%	0.02	3/11/05 09:59 a		2.0	LSC4
	-3.21E-02	U	RPD	-409.7		1.50E+01		0.06			G	

No. of Results: 1 Comments:

STL Richland RPD - Relative Percent Difference.

rptSTLRchDupV4.1 MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.

1 A97 U Qual - Analyzed for, but the result is less than the Mdc/Mda|Total Uncert or gamma scan software did not identify the nuclide.

FORM II

Date: 14-Mar-05

DUPLICATE RESULTS

Lab Name:	STL Richland	SDG:	W04569	Collection Date:	3/3/2005 11:00:00 AM
Lot-Sample No.:	J5C040248-1	Report No. :	28261	Received Date:	3/4/2005 11:30:00 AM
Client Sample ID:	B1CF72 DUP	COC No. :	F05-009-086	Matrix:	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5063543 KWSR				Work Order: G5KJL1AG		Report DB ID: G5KJL1GR			Orig Sa DB ID: 9G5KJL10			
U-234	6.23E-01			1.50E-01	3.56E-02	pCi/g	70%	(17.5)	3/10/05 07:47 p		2.09	ALP4
	6.31E-01		RPD 1.3			1.00E+00		(8.3)			G	
U-235	4.47E-02			3.01E-02	3.23E-02	pCi/g	70%	(1.4)	3/10/05 07:47 p		2.09	ALP4
	3.60E-02		RPD 21.6			1.00E+00		(3.)			G	
U-238	6.89E-01			1.62E-01	2.85E-02	pCi/g	70%	(24.2)	3/10/05 07:47 p		2.09	ALP4
	6.87E-01		RPD 0.2			1.00E+00		(8.5)			G	

Ratio U-234/238 = 0.9 *Alpha Spec Result Sum = 1.4E+00*

No. of Results: 3 Comments:

STL Richland RPD - Relative Percent Difference.

rptSTLRchDupV4.1 MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.

1 A97

FORM II

BLANK RESULTS

Date: 14-Mar-05

Lab Name: STL Richland

Matrix: SOIL

SDG: W04569

Report No. : 28261

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA ,	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 5063294	TC99_ETVDSK_LSC			Work Order:	G5JXF1AA		Report DB ID:	G5JXF1AB				
TC-99	1.20E-01	U	2.70E-01	3.61E-01	6.43E-01	pCi/g	100%	0.19	3/11/05 02:08 p		2.0	LSC4
					3.09E-01	2.00E+01		0.66			G	
Batch: 5063543	KWSR			Work Order:	G5L1G1AA		Report DB ID:	G5L1G1AB				
U-234	2.64E-02			2.00E-02	2.21E-02	pCi/g	93%	(1.2)	3/10/05 07:48 p		2.0	ALP6
					6.70E-03	1.00E+00		(2.6)			G	
U-235	-6.44E-04	U		1.29E-03	1.54E-02	pCi/g	93%	-0.04	3/10/05 07:48 p		2.0	ALP6
					3.35E-03	1.00E+00		-1.			G	
U-238	2.51E-02			1.87E-02	1.54E-02	pCi/g	93%	(1.6)	3/10/05 07:48 p		2.0	ALP6
					3.35E-03	1.00E+00		(2.7)			G	
								Ratio U-234/238 = 1.1				

No. of Results: 4 Comments:

STL Richland
rptSTLRchBlank
V4.11 A97

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for, but the result is less than the Mdc/Mda|Total Uncert or gamma scan software did not identify the nuclide.

FORM II

LCS RESULTS

Date: 14-Mar-05

Lab Name: STL Richland

Matrix: SOIL

SDG: W04569

Report No. : 28261

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 5063294	TC99_ETVDSK_LSC			**Work Order:**	G5JXF1AC		**Report DB ID:**	G5JXF1CS					
TC-99	1.97E+02		1.92E+00	1.16E+01	6.43E-01	pCi/g	100%	2.26E+02	2.87E+00	87%	3/11/05 03:10 p	2.0	LSC4
							Rec Limits:	70	130	-0.1		G	
Batch: 5063543	KWSR			**Work Order:**	G5L1G1AC		**Report DB ID:**	G5L1G1CS					
U-234	1.59E+00			3.07E-01	1.52E-02	pCi/g	97%	1.64E+00	1.01E-02	97%	3/10/05 07:48 p	2.0	ALP7
							Rec Limits:	20	105	0.0		G	
U-238	1.65E+00			3.17E-01	8.61E-03	pCi/g	97%	1.72E+00	1.05E-02	96%	3/10/05 07:48 p	2.0	ALP7
							Rec Limits:	20	105	0.0		G	

No. of Results: 3 **Comments:**

STL Richland **Bias** - (Result/Expected)-1 as defined by ANSI N13.30.

rptSTLRchLcs
V4.11 A97

FORM II

Date: 14-Mar-05

MATRIX SPIKE RESULTS

Lab Name: STL Richland SDG: W04569

Lot-Sample No.: J5C030200-1 Report No. : 28261 Matrix: SOIL

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC | MDA	Rpt Unit, CRDL	Yield	Rec-overy	Exp-ected	Exp Uncert	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 5063294	TC99_ETVDSK_LSC			Work Order: G5GDT1AF		Report DB ID: G5GDT1FW			Orig Sa DB ID: 9G5GDT10				
TC-99	1.88E+02		1.88E+00	1.11E+01	6.46E-01	pCi/g	100%	83.39%	2.26E+02	1.86E+0(	3/11/05 07:54 a	2.0	LSC4
	-3.21E-02	*RPD*	34.0									G	

No. of Results: 1 Comments:

STL Richland RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

rptSTLRchMs Bias - (Result/Expected)-1 as defined by ANSI N13.30.

V4.11 A97

STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/11/2005 1:34:11 PM

Lot No., Due Date: J5C010147,J5C020167,J5C030200,J5C040248; 03/11/2005

Client, Site: 108302; FLUOR- SOILS Hanford Site

QC Batch No., Method Test: 5063543; RUISO Uiso by ALP

SDG, Matrix: W04569; SOIL

	Yes	No	N/A
1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?	✓		
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?			✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		
4.0 Raw Data			
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?			
4.4 Were spectra reviewed/meet contractual requirements?	✓		
4.5 Were raw counts reviewed for anomalies?	✓		
5.0 Other			
5.1 Are all nonconformances included and noted?			✓
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?	✓		
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:

First Level Review Pam Anderson **Date** 3-11-05

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 5063543

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Jackie Waddell Date: 3/11/05

LS-038B, Rev. 10, 8/02

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/14/2005 12:15:23 PM

Lot No., Due Date: J5C010147,J5C020167,J5C030200,J5C040248; 03/11/2005

Client, Site: 108302; FLUOR- SOILS Hanford Site

QC Batch No., Method Test: 5063294; RTC99 Tc-99 by LSC

SDG, Matrix: W04569; SOIL

	Yes	No	N/A
1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?			✓
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?	✓		
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		
4.0 Raw Data			
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?			✓
4.4 Were spectra reviewed/meet contractual requirements?			✓
4.5 Were raw counts reviewed for anomalies?	✓		
5.0 Other			
5.1 Are all nonconformances included and noted?			✓
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?	✓		
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:

First Level Review Pam Anderson **Date** 3-14-05

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 5063294

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?			✓
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?	✓		
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Jackie Waddell Date: 3/14/05

LS-038B, Rev. 10, 8/02

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F05-009-031 PAGE 1 OF 1

COLLECTOR: POPE/PFISTER/MOKLER/TYRA	COMPANY CONTACT: JACKSON, RL	TELEPHONE NO.: 372-9004	PROJECT COORDINATOR: TRENT, SJ
PRICE CODE: 8B	DATA TURNAROUND: 7 Days / ~~15 Days~~ RP 3/28/05		
SAMPLING LOCATION: 216-U-1 & 216-U-2; C4711 44'-46'	PROJECT DESIGNATION: U Plant Closure Contaminant Plume Refinement	SAF NO.: F05-009	AIR QUALITY:
ICE CHEST NO.: Q-50639	FIELD LOGBOOK NO.:	COA: 119141ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE
SHIPPED TO: Severn Trent Incorporated, Richland	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=Vegitation, W=Water, W1=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Due 4/04/05 3/01 due 3/21/05 J5C010147 SDG# W04569

SPECIAL HANDLING AND/OR STORAGE:

PRESERVATION	None
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	Isotopic Uranium; Technetium-99; Total Uranium;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1CDF8	SOIL	2/28/05	1610	X	G4944

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
JS Pfister / [illegible]	2-28-05 1700	MO-026 / Ref. #1	2-28-05 1700
MO-026 / Freig #1	3/1/05 0600	[illegible] / David Tyra	3/1/05 0600
[illegible] / David Tyra	3/1/05 0930	[illegible] / A. Rhinehart	3/1/05 9:30

SPECIAL INSTRUCTIONS

** The STL-RL laboratory is to achieve a detection limit of 1 pCi/gm for Tc-99.
** The STL laboratories will close SDGs upon accumulation of 5 samples or at a minimum weekly.

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

A-6003-618(03/03)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F05-009-035 | PAGE 1 OF 1

COLLECTOR: POPE/PFISTER/MOKLER/TYRA	COMPANY CONTACT: JACKSON, RL	TELEPHONE NO.: 372-9004	PROJECT COORDINATOR: TRENT, SJ
SAMPLING LOCATION: 216-U-1 & 216-U-2; C4766 44'-46'	PROJECT DESIGNATION: U Plant Closure Contaminant Plume Refinement		SAF NO.: F05-009
ICE CHEST NO.	FIELD LOGBOOK NO.	COA: 119141ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE
SHIPPED TO: Severn Trent Incorporated, Richland	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A

PRICE CODE: 8B

AIR QUALITY: ☐

DATA TURNAROUND: 7 Days / 15 Days

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

POSSIBLE SAMPLE HAZARDS/ REMARKS: J5C010147 SDG#W04569

SPECIAL HANDLING AND/OR STORAGE:

PRESERVATION	None
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	Isotopic Uranium; Technetium-99; Total Uranium;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME									
B1CDH2	SOIL	2-28-05	0930	X	G494L							

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J Spope/[signature] 2-28-05	1700	MO-026/Ref. #1 2-28-05	1700
MO-026/Frig #1 3/1/05	0600	[signature]/David Tyra 3/1/05	0600
[signature]/David Tyra 3/1/05	0930	[signature] A. Rhinehart 3/1/05	9:30

SPECIAL INSTRUCTIONS

** The STL-RL laboratory is to achieve a detection limit of 1 pCi/gm for Tc-99.
** The STL laboratories will close SDGs upon accumulation of 5 samples or at a minimum weekly.

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

A-6003-618(03/03)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F05-009-036 | PAGE 1 OF 1

COLLECTOR POPE/PFISTER/MOKLER/TYRA	**COMPANY CONTACT** JACKSON, RL	**TELEPHONE NO.** 372-9004	**PROJECT COORDINATOR** TRENT, SJ
SAMPLING LOCATION 216-U-1 & 216-U-2; C4705 44'-46'	**PROJECT DESIGNATION** U Plant Closure Contaminant Plume Refinement		**SAF NO.** F05-009
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA** 119141ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE
SHIPPED TO Severn Trent Incorporated, Richland	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8B

AIR QUALITY ☐

DATA TURNAROUND 7 Days / 15 Days

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

POSSIBLE SAMPLE HAZARDS/ REMARKS

J5C010147
W04569

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	Isotopic Uranium; Technetium-99; Total Uranium;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1CDH3	SOIL	2-28-05	1300	X	G494N

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
JSPope/[signature] 2-28-05	1700	MO-026/Ref #1 2-28-05	1700
MO-026/Frig #1 3/1/05	0600	[signature]/David Tyra 3/1/05	0600
[signature]/David Tyra 3/1/05	0930	[signature] A. Rhinehart 3/1/05	9:30

SPECIAL INSTRUCTIONS

** The STL-RL laboratory is to achieve a detection limit of 1 pCi/gm for Tc-99.
** The STL laboratories will close SDGs upon accumulation of 5 samples or at a minimum weekly.

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

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A-6003-618(03/03)

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 3/01/05 @ 9:30 a

Client: FHI SDG #: W04569 NA [ ] SAF #: F05-009 NA [✓]

Work Order Number: JSC010147 Chain of Custody # F05-009-031, -035, -036

Shipping Container ID: NA Air Bill # NA

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 3
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ___ tape
   - [✓] custody seals
   - ___ hazard labels
   - [✓] appropriate samples labels
9. Samples are:
   - [✓] in good condition
   - ___ broken
   - ___ leaking
   - ___ have air bubbles (Only for samples requiring head space)
10. Sample pH taken? NA [✓] pH<2 [ ] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 3/01/05

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F05-009-028	PAGE 1 OF 1
COLLECTOR POPE/PFISTER/MOKLER/TYRA	COMPANY CONTACT JACKSON, RL	TELEPHONE NO. 372-9004	PROJECT COORDINATOR TRENT, SJ	PRICE CODE 8B	DATA TURNAROUND
SAMPLING LOCATION 216-U-1 & 216-U-2; C4712 42'-44'	PROJECT DESIGNATION U Plant Closure Contaminant Plume Refinement		SAF NO. F05-009	AIR QUALITY ☐	7 Days / 15 Days
ICE CHEST NO. Q-50639	FIELD LOGBOOK NO.	COA 119141ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE		
SHIPPED TO Severn Trent Incorporated, Richland	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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/REMARKS
JH 3/2/05
WO45712419
Due 3/08/05
J5C020167

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	Isotopic Uranium; Technetium-99; Total Uranium;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME				
B1CDF5	SOIL	3-1-05	1110	X		65DGR	

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
JSPeters/A Bfm	3-1-05 1400	D.H.R.Bingo	3/1/05 14:0
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
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** The STL-RL laboratory is to achieve a detection limit of 1 pCi/gm for Tc-99.
** The STL laboratories will close SDGs upon accumulation of 5 samples or at a minimum weekly.

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

518(03/03)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F05-009-027 | PAGE 1 OF 1

COLLECTOR POPE/PFISTER/MOKLER/TYRA	**COMPANY CONTACT** JACKSON, RL	**TELEPHONE NO.** 372-9004	**PROJECT COORDINATOR** TRENT, SJ
SAMPLING LOCATION 216-U-1 & 216-U-2; C4712 35'-37'	**PROJECT DESIGNATION** U Plant Closure Contaminant Plume Refinement		**SAF NO.** F05-009
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA** 119141ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE
SHIPPED TO Severn Trent Incorporated, Richland	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8B

AIR QUALITY

DATA TURNAROUND 7 Days / 15 Days

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

POSSIBLE SAMPLE HAZARDS/ REMARKS
2/23/2005
W04572 69
Due 3/08/05
J5C020147

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	Isotopic Uranium; Technetium-99; Total Uranium;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1CDF4	SOIL	3/1/05	1030	X	G5DGT								

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Pope/ASP	3-1-05 1400	O. Hans B. Nso	3/1/05 14:00

SPECIAL INSTRUCTIONS

** The STL-RL laboratory is to achieve a detection limit of 1 pCi/gm for Tc-99.
** The STL laboratories will close SDGs upon accumulation of 5 samples or at a minimum weekly.

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

A-6003-618(03/03)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F05-009-025

COLLECTOR POPE/PFISTER/MOKLER/TYRA	**COMPANY CONTACT** JACKSON, RL	**TELEPHONE NO.** 372-9004	**PROJECT COORDINATOR** TRENT, SJ
SAMPLING LOCATION 216-U-1 & 216-U-2; C4712 10'-12'	**PROJECT DESIGNATION** U Plant Closure Contaminant Plume Refinement		**SAF NO.** F05-009
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA** 119141ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE
SHIPPED TO Severn Trent Incorporated, Richland	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8B

AIR QUALITY ☐

DATA TURNAROUND 7 Days / 15 Days

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

POSSIBLE SAMPLE HAZARDS/ REMARKS
W045 69 72 H 3/2/05
Due 3/08/05
J5C020167

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	Isotopic Uranium; Technetium-99; Total Uranium;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1CDF2	SOIL	3-1-05	0450	X		G-5DGX							

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J Pfister/AOP	3-1-05 1400	D Harbinson	3/1/05 14:00

SPECIAL INSTRUCTIONS

** The STL-RL laboratory is to achieve a detection limit of 1 pCi/gm for Tc-99.
** The STL laboratories will close SDGs upon accumulation of 5 samples or at a minimum weekly.

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

A-6003-618(03/03)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F05-009-026 | PAGE 1 OF 1

COLLECTOR POPE/PFISTER/MOKLER/TYRA	**COMPANY CONTACT** JACKSON, RL	**TELEPHONE NO.** 372-9004	**PROJECT COORDINATOR** TRENT, SJ
SAMPLING LOCATION 216-U-1 & 216-U-2; C4712 301-321	**PROJECT DESIGNATION** U Plant Closure Contaminant Plume Refinement		**SAF NO.** F05-009
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA** 119141ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE
SHIPPED TO Severn Trent Incorporated, Richland	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8B

AIR QUALITY ☐

DATA TURNAROUND 7 Days / 15 Days

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

POSSIBLE SAMPLE HAZARDS/ REMARKS

W04572
Due 3/08/05
J5C020167

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	Isotopic Uranium; Technetium-99; Total Uranium;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1CDF3	SOIL	3-1-05	0950	X	G5DG2

CHAIN OF POSSESSION | **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
JSPOPE/[signature]	3-1-05 1400	D.HARBINSON [signature]	3/1/05 14:00

SPECIAL INSTRUCTIONS

** The STL-RL laboratory is to achieve a detection limit of 1 pCi/gm for Tc-99.
** The STL laboratories will close SDGs upon accumulation of 5 samples or at a minimum weekly.

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

A-6003-618(03/03)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F05-009-030 | PAGE 1 OF 1

COLLECTOR POPE/PFISTER/MOKLER/TYRA/HUGHES 40-42' 2/25/05	**COMPANY CONTACT** JACKSON, RL	**TELEPHONE NO.** 372-9004	**PROJECT COORDINATOR** TRENT, SJ
SAMPLING LOCATION 216-U-1 & 216-U-2; C4713 ~~44'-46'~~	**PROJECT DESIGNATION** U Plant Closure Contaminant Plume Refinement		**SAF NO.** F05-009
ICE CHEST NO. GRP-05-003	**FIELD LOGBOOK NO.** HNF-N-4391	**COA** 119141ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE
SHIPPED TO Severn Trent Incorporated, Richland	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A

PRICE CODE 8B

AIR QUALITY ☐

DATA TURNAROUND 7 Days / 15 Days

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

POSSIBLE SAMPLE HAZARDS/ REMARKS

W0457269 JH 3/2/05

JSC020167

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	Isotopic Uranium; Technetium-99; Total Uranium;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME									
B1CDF7	SOIL	2-25-05	0940	✓		G5DHE						

CHAIN OF POSSESSION | **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R.PFISTER [signature]	2/25/05 1505	FRIG#1 @ MO-026	2/25/05 1505
MO026 Fridge #1	2-28-05/0900	KEVIN D HUGHES [signature]	2-28-05 0900
KEVIN D HUGHES [signature]	2-28-05/0920	Pam Anderson Pam Anderson	2-28 0920

SPECIAL INSTRUCTIONS

** The STL-RL laboratory is to achieve a detection limit of 1 pCi/gm for Tc-99.
** The STL laboratories will close SDGs upon accumulation of 5 samples or at a minimum weekly.

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

A-6003-618(03/03)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F05-009-029	PAGE 1 OF 1
COLLECTOR POPE/PFISTER/MOKLER/TYRA	COMPANY CONTACT JACKSON, RL	TELEPHONE NO. 372-9004	PROJECT COORDINATOR TRENT, SJ	PRICE CODE 8B	DATA TURNAROUND
SAMPLING LOCATION 216-U-1 & 216-U-2; C4718 44'-46'	PROJECT DESIGNATION U Plant Closure Contaminant Plume Refinement		SAF NO. F05-009	AIR QUALITY ☐	7 Days / 15 Days
ICE CHEST NO. GRP-05-003	FIELD LOGBOOK NO.	COA 119141ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE		
SHIPPED TO Severn Trent Incorporated, Richland	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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS

W0452269
JH 3/2/05
J5C020167

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None										
TYPE OF CONTAINER	aG										
NO. OF CONTAINER(S)	1										
VOLUME	60mL										
SAMPLE ANALYSIS	Isotopic Uranium; Technetium-99; Total Uranium;										

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME									
B1CDF6	SOIL	2/24/05	1330	X	GSDHH							

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM J. Moulton [signature]	DATE/TIME 2/24/5 1425	RECEIVED BY/STORED IN FRIGE 1 (MO-026)	DATE/TIME 2/24/5 1425
RELINQUISHED BY/REMOVED FROM MO026 Fridge #1	DATE/TIME 2-28-05/0900	RECEIVED BY/STORED IN Kevin D Hughes [signature]	DATE/TIME 2-28-05 0900
RELINQUISHED BY/REMOVED FROM Kevin D Hughes [signature]	DATE/TIME 2-28-05 0920	RECEIVED BY/STORED IN Pam Anderson Pam Anderson	DATE/TIME 2/28/05 0920
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

SPECIAL INSTRUCTIONS

** The STL-RL laboratory is to achieve a detection limit of 1 pCi/gm for Tc-99.
** The STL laboratories will close SDGs upon accumulation of 5 samples or at a minimum weekly.

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

A-6003-618(03/03)

44

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 2/28/05 @ 9:20 AM 69 JH 3/2/05

Client: FHI SDG #: W04572 NA [ ] SAF #: F05-009 NA [ ]

Work Order Number: JSC020167 Chain of Custody # F05-009_29,-30

Shipping Container ID: N/A Air Bill # N/A

1. Custody Seals on shipping container intact? NA [ ] Yes [X] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [X] No [ ]
3. Chain of Custody record present? Yes [X] No [ ]
4. Cooler temperature:_____ NA [X] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [X]
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [X] Yes [ ] No [ ]
8. Samples have:
   - ____tape
   - X custody seals
   - ____hazard labels
   - X appropriate samples labels
9. Samples are:
   - ____in good condition
   - ____broken
   - ____leaking
   - ____have air bubbles (Only for samples requiring head space)
10. Sample pH taken? NA [X] pH<2 [ ] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? * Yes [X] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [X]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 3/2/05

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on_____ by_____ Person contacted_____

[ ] No action necessary; process as is.

Project Manager_____ Date_____

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SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 3/1/05 14:00 69 3/1/2/05

Client: FLUOR SDG #: W04572 NA [ ] SAF #: F05-009 NA [ ]

Work Order Number: J5C090167 Chain of Custody # F05009028, F05009027 F05009025 F05009026

Shipping Container ID: N/A Air Bill # N/A

1. Custody Seals on shipping container intact? NA [✓] Yes [ ] No [ ]
2. Custody Seals dated and signed? NA [✓] Yes [ ] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 4
7. Sample holding times exceeded? NA [ ] Yes [ ] No [ ]
8. Samples have:
   - ✓ tape
   - ✓ custody seals
   - ✓ hazard labels
   - ✓ appropriate samples labels
9. Samples are:
   - ✓ in good condition
   - broken
   - leaking
   - have air bubbles (Only for samples requiring head space)
10. Sample pH taken? SOIL NA [✓] pH<2 [ ] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? * Yes [ ] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 3/1/05

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

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FLH Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F05-009-032 PAGE 1 OF 1

COLLECTOR: POPE/PFISTER/MOKLER/TYRA	COMPANY CONTACT: JACKSON, RL	TELEPHONE NO.: 372-9004	PROJECT COORDINATOR: TRENT, SJ
PRICE CODE: 8B	AIR QUALITY: ☐	DATA TURNAROUND: 7 Days / 15 Days	
SAMPLING LOCATION: 216-U-1 & 216-U-2; C4709 44'-46'	PROJECT DESIGNATION: U Plant Closure Contaminant Plume Refinement	SAF NO.: F05-009	
ICE CHEST NO.: Q-50639	FIELD LOGBOOK NO.:	COA: 119141ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE
SHIPPED TO: Severn Trent Incorporated, Richland	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=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: 1N04569 J5C030200 Due 3/11/05

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	Isotopic Uranium; Technetium-99; Total Uranium;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME				
B1CDF9	SOIL	3-2-05	1000	X		GSGDT	

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R. Pfister/[signature] 3/2/05	1655	MO-026 FRIG #1 3/2/1	1655
MO-026/Ref. #1 3-3-05	0600	J.S. Pope/[signature] 3-3-05	0600
JS Pope/[signature] 3-3-05	0855	T. Heidelberg [signature]	3-3-05 0855

SPECIAL INSTRUCTIONS

** The STL-RL laboratory is to achieve a detection limit of 1 pCi/gm for Tc-99.
** The STL laboratories will close SDGs upon accumulation of 5 samples or at a minimum weekly.

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

A-6003-618(03/03)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F05-009-033	PAGE 1 OF 1

COLLECTOR POPE/PFISTER/MOKLER/TYRA	**COMPANY CONTACT** JACKSON, RL	**TELEPHONE NO.** 372-9004	**PROJECT COORDINATOR** TRENT, SJ
PRICE CODE 8B	**DATA TURNAROUND** 7 Days / 15 Days	**AIR QUALITY** ☐	
SAMPLING LOCATION 216-U-1 & 216-U-2; C 4708 44'-46'	**PROJECT DESIGNATION** U Plant Closure Contaminant Plume Refinement	**SAF NO.** F05-009	
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA** 119141ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE
SHIPPED TO Severn Trent Incorporated, Richland	**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS

W04569
J5C080200

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	Isotopic Uranium; Technetium-99; Total Uranium;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1CDH0	SOIL	3-2-05	1240	X	G5GD7								

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R. Pfister/Pfister 3/2/05	1655	MO-026 FRIG #1 3/2/05	1655
MO-026/Ref. #1 3-3-05	0600	J.S. Pope/ 3-3-05	0600
J.S. Pope/ 3-3-05	0855	[illegible]	3/3/05 0855

SPECIAL INSTRUCTIONS

** The STL-RL laboratory is to achieve a detection limit of 1 pCi/gm for Tc-99.
** The STL laboratories will close SDGs upon accumulation of 5 samples or at a minimum weekly.

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

A-6003-618(03/03)

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F05-009-034

COLLECTOR POPE/PFISTER/MOKLER/TYRA	**COMPANY CONTACT** JACKSON, RL	**TELEPHONE NO.** 372-9004	**PROJECT COORDINATOR** TRENT, SJ
PRICE CODE 8B	**DATA TURNAROUND** 7 Days / 15 Days	**AIR QUALITY** ☐	
SAMPLING LOCATION 216-U-1 & 216-U-2; C4707 44'-46'	**PROJECT DESIGNATION** U Plant Closure Contaminant Plume Refinement	**SAF NO.** F05-009	
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA** 119141ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE
SHIPPED TO Severn Trent Incorporated, Richland	**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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS

W04569
J5C030200

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	Isotopic Uranium; Technetium-99; Total Uranium;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	[redacted]								
B1CDH1	SOIL	3/2/05	1530	X	GSEEL							

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R.Pfister/[signature]	3/2/05 1655	MO-026 FRIG #1	3/2/05 1655
MO-026 / Ref. #1	3-3-05 0600	J.S. Pope/[signature]	3-3-05 0600
J.S. Pope/[signature]	3-3-05 0855	T. Heidelberg [signature]	3-3-05 0855

SPECIAL INSTRUCTIONS

** The STL-RL laboratory is to achieve a detection limit of 1 pCi/gm for Tc-99.
** The STL laboratories will close SDGs upon accumulation of 5 samples or at a minimum weekly.

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

A-6003-61B(03/03)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F05-009-053	PAGE 1 OF 1
COLLECTOR POPE/PFISTER/MOKLER/TYRA	COMPANY CONTACT JACKSON, RL	TELEPHONE NO. 372-9004	PROJECT COORDINATOR TRENT, SJ	PRICE CODE 8B AIR QUALITY ☐
SAMPLING LOCATION 216-U-1 & 216-U-2; C4709 44'-46'	PROJECT DESIGNATION U Plant Closure Contaminant Plume Refinement		SAF NO. F05-009	DATA TURNAROUND 7 Days / 15 Days
ICE CHEST NO.	FIELD LOGBOOK NO.	COA 119141ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO Severn Trent Incorporated, Richland	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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Duplicate W04569 J5C030200

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None											
TYPE OF CONTAINER	aG											
NO. OF CONTAINER(S)	1											
VOLUME	60mL											
SAMPLE ANALYSIS	Isotopic Uranium; Technetium-99; Total Uranium;											

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	[redacted]								
B1CF38	SOIL	3-2-05	1000	X	G5GEF							

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R. PFISTER / [signature]	3/2/05 1655	MO-026 FRIG #1	3/2/05 1655
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
MO-026 / RCF #1	3-3-05 0600	J.S. Pope / [signature]	3-3-05 0600
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J.S. Pope / [signature]	3-3-05 0855	[signature]	3/3/05 0855
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

SPECIAL INSTRUCTIONS

** The STL-RL laboratory is to achieve a detection limit of 1 pCi/gm for Tc-99.
** The STL laboratories will close SDGs upon accumulation of 5 samples or at a minimum weekly.

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

A-6003-618(03/03)

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 3-3-05 0855

Client: FLH SDG #: W04569 NA [ ] SAF #: F05-009 NA [ ]

Work Order Number: J5C030100 Chain of Custody # F05-009-034, 32, 53, 33

Shipping Container ID: Uha Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 4
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   - ✓ tape
   - ✓ custody seals
   - ____ hazard labels
   - ____ appropriate samples labels
9. Samples are:
   - ✓ in good condition
   - ____ broken
   - ____ leaking
   - ____ have air bubbles (Only for samples requiring head space)
10. Sample pH taken? NA [✓] pH<2 [ ] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? * Yes [ ] No [✓]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 3-3-05

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

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Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F05-009-086	PAGE 1 OF 1
COLLECTOR POPE/PFISTER/MOKLER/TYRA	COMPANY CONTACT JACKSON, RL	TELEPHONE NO. 372-9004	PROJECT COORDINATOR TRENT, SJ	PRICE CODE 8B	DATA TURNAROUND
SAMPLING LOCATION 216-U-8 ; C4720 44ft-46ft	PROJECT DESIGNATION U Plant Closure Contaminant Plume Refinement		SAF NO. F05-009	AIR QUALITY ☐	7 Days / 15 Days
ICE CHEST NO. Q-50639	FIELD LOGBOOK NO. HNF-N-4391	COA 119141ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE		
SHIPPED TO Severn Trent Incorporated, Richland	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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
J5C040248
SDG# W04569
Due 3/11/05

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	Isotopic Uranium; Technetium-99; Total Uranium;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME									
B1CF72	SOIL	3-3-05	1100	X		GSKTL						

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[signature]	3/3/05-15:00	~~RFF 1~~ 3/3/05 MO-026-RFF 1	3/3/05 1500
MO-026, RFF #1, 3/4/05, 0630		David Tyra, [signature], 3/4/05 0630	
David Tyra/[signature]	3/4/05 1130	[signature] / A. Rhine Leary	3/4/05 1130

SPECIAL INSTRUCTIONS

** The STL-RL laboratory is to achieve a detection limit of 1 pCi/gm for Tc-99.
** The STL laboratories will close SDGs upon accumulation of 5 samples or at a minimum weekly.

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

A-6003-618(03/03)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F05-009-087	PAGE 1 OF 1
COLLECTOR POPE/PFISTER/MOKLER/TYRA	COMPANY CONTACT JACKSON, RL	TELEPHONE NO. 372-9004	PROJECT COORDINATOR TRENT, SJ	PRICE CODE 8B	DATA TURNAROUND
SAMPLING LOCATION 216-U-8 ; (4721 ~~4461 - 4661~~ 4421-4461	PROJECT DESIGNATION U Plant Closure Contaminant Plume Refinement		SAF NO. F05-009	AIR QUALITY ☐	7 Days / 15 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-4391	COA 119141E510	METHOD OF SHIPMENT GOVERNMENT VEHICLE		
SHIPPED TO Severn Trent Incorporated, Richland	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=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: J5C040248 SDG#W04569 Due 3/11/05

SPECIAL HANDLING AND/OR STORAGE:

PRESERVATION	None										
TYPE OF CONTAINER	aG										
NO. OF CONTAINER(S)	1										
VOLUME	60mL										
SAMPLE ANALYSIS	Isotopic Uranium; Technetium-99; Total Uranium;										

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME									
B1CF73	SOIL	3/3/05	1350	X		G5H5T						

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
D. Mokler	3/3/05 1500	MO-026/RFF1	3/3/05 1500
MO-026/RFF #1	3-4-05/0630	David Tyra	3-4-05/0630
David Tyra	3/4/05 1130	A. Kirschner	3/4/05 1130

SPECIAL INSTRUCTIONS
** The STL-RL laboratory is to achieve a detection limit of 1 pCi/gm for Tc-99.
** The STL laboratories will close SDGs upon accumulation of 5 samples or at a minimum weekly.

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

A-6003-618(03/03)

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 3/04/05 @ 11:30am

Client: FLH SDG #: W04569 NA [ ] SAF #: F05-009 NA [ ]

Work Order Number: J5C040248 Chain of Custody # F05-009-086, -087

Shipping Container ID: N/A Air Bill # N/A

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ___ tape
   - [✓] custody seals
   - ___ hazard labels
   - [✓] appropriate samples labels
9. Samples are:
   - [✓] in good condition
   - ___ broken
   - ___ leaking
   - ___ have air bubbles (Only for samples requiring head space)
10. Sample pH taken? NA [✓] pH<2 [ ] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 3/04/05

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

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3/5/2005 1:10:47 PM

Sample Preparation/Analysis

Balance Id:1120373922

108302, FLUOR HANFORD IC , Flour
Hanford Inc

KW Uiso PrpRC5013/5032/5086 SepRC5067(5039)
SR Uranium-234,235,238 by Alpha Spec
5i CLIENT: HANFORD

Pipet #: _____

Report Due: 03/11/2005

Sep1 DT/Tm Tech:

Batch: 5063543 SOIL pCi/g PM, Quote: BG2, 50639

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

[redacted]

Prep Tech: ,HansenM

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 G494H-1-AE J5C010147-1-SAMP [redacted] 02/28/2005 16:10		2.07g,in AmtRec: JAR60MLG	UITC12533 01/31/05,pd 10/12/04,r #Containers: 1			200		Scr Rst: Alpha: 6.68E+01 pCi/g		Beta: 1.78E+01 pCi/g
2 G494L-1-AE J5C010147-2-SAMP [redacted] 02/28/2005 09:30		2.05g,in AmtRec: JAR60MLG	UITC12534 01/31/05,pd 10/12/04,r #Containers: 1					Scr Rst: Alpha: 8.59E+01 pCi/g		Beta: 2.56E+01 pCi/g
3 G494N-1-AE J5C010147-3-SAMP [redacted] 02/28/2005 13:00		2.02g,in AmtRec: JAR60MLG	UITC12535 01/31/05,pd 10/12/04,r #Containers: 1					Scr Rst: Alpha: 8.68E+01 pCi/g		Beta: 2.09E+01 pCi/g
4 G5DGR-1-AE J5C020167-1-SAMP [redacted] 03/01/2005 11:10		2.00g,in AmtRec: JAR60MLG	UITC12536 01/31/05,pd 10/12/04,r #Containers: 1					Scr Rst: Alpha: 4.72E+01 pCi/g		Beta: 1.40E+01 pCi/g
5 G5DGT-1-AE J5C020167-2-SAMP [redacted] 03/01/2005 10:30		2.00g,in AmtRec: JAR60MLG	UITC12537 01/31/05,pd 10/12/04,r #Containers: 1					Scr Rst: Alpha: 5.73E+01 pCi/g		Beta: 1.62E+01 pCi/g
6 G5DGX-1-AE J5C020167-3-SAMP [redacted] 03/01/2005 08:50		2.03g,in AmtRec: JAR60MLG	UITC12538 01/31/05,pd 10/12/04,r #Containers: 1					Scr Rst: Alpha: 4.78E+01 pCi/g		Beta: 1.20E+01 pCi/g
7 G5DG2-1-AE J5C020167-4-SAMP [redacted] 03/01/2005 09:50		2.00g,in AmtRec: JAR60MLG	UITC12539 01/31/05,pd 10/12/04,r #Containers: 1					Scr Rst: Alpha: 6.26E+01 pCi/g		Beta: 1.65E+01 pCi/g

STL Richland
Richland Wa.

Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2
pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ISV - Insufficient Volume for Analysis

WO Cnt: 7
Prep_SamplePrep v4.8.08

55

3/5/2005 1:13:11 PM

Sample Preparation/Analysis

Balance Id:1120373922

108302, FLUOR HANFORD IC , Flour
Hanford Inc

KW Uiso PrpRC5013/5032/5086 SepRC5067(5039)
SR Uranium-234,235,238 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

Report Due: 03/11/2005

Sep1 DT/Tm Tech:

Batch: 5063543 SOIL pCi/g PM, Quote: BG2, 50639

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

[redacted]

Prep Tech: ,HansenM

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 G5DHE-1-AE J5C020167-5-SAMP [redacted] 02/25/2005 09:40		2.10g,in AmtRec: JAR60MLG	UITC12540 01/31/05,pd 10/12/04,r #Containers: 1			200		Scr Rst: Alpha: 6.68E+01 pCi/g	Beta: 1.27E+01 pCi/g	
9 G5DHH-1-AE J5C020167-6-SAMP [redacted] 02/24/2005 13:30		2.00g,in AmtRec: JAR60MLG	UITC12541 01/31/05,pd 10/12/04,r #Containers: 1					Scr Rst: Alpha: 6.20E+01 pCi/g	Beta: 1.75E+01 pCi/g	
10 G5GDT-1-AJ J5C030200-1-SAMP [redacted] 03/02/2005 10:00		2.00g,in AmtRec: 60MLG	UITC12542 01/31/05,pd 10/12/04,r #Containers: 1					Scr Rst: Alpha: 6.98E+01 pCi/g	Beta: 1.67E+01 pCi/g	
11 G5GD7-1-AE J5C030200-2-SAMP [redacted] 03/02/2005 12:40		2.03g,in AmtRec: 60MLG	UITC12543 01/31/05,pd 10/12/04,r #Containers: 1					Scr Rst: Alpha: 5.15E+01 pCi/g	Beta: 1.40E+01 pCi/g	
12 G5GEC-1-AE J5C030200-3-SAMP [redacted] 03/02/2005 15:30		2.00g,in AmtRec: 60MLG	UITC12544 01/31/05,pd 10/12/04,r #Containers: 1					Scr Rst: Alpha: 8.83E+01 pCi/g	Beta: 2.06E+01 pCi/g	
13 G5GEF-1-AE J5C030200-4-SAMP [redacted] 03/02/2005 10:00		2.06g,in AmtRec: 60MLG	UITC12545 01/31/05,pd 10/12/04,r #Containers: 1					Scr Rst: Alpha: 4.79E+01 pCi/g	Beta: 1.24E+01 pCi/g	
14 G5KJL-1-AE J5C040248-1-SAMP [redacted] 03/03/2005 11:00		2.00g,in AmtRec: JAR60MLG	UITC12546 01/31/05,pd 10/12/04,r #Containers: 1					Scr Rst: Alpha:	Beta:	

56

3/5/2005 1:13:12 PM

Sample Preparation/Analysis

Balance Id:1120373922

108302, FLUOR HANFORD IC , Flour
Hanford Inc

KW Uiso PrpRC5013/5032/5086 SepRC5067(5039)
SR Uranium-234,235,238 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

Report Due: 03/11/2005

Sep1 DT/Tm Tech:

Batch: 5063543 SOIL pCi/g PM, Quote: BG2, 50639
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,HansenM

[redacted]

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15G5KJL-1-AG-X J5C040248-1-DUP [redacted] 03/03/2005 11:00		2.09g,in AmtRec: JAR60MLG	UITC12547 01/31/05,pd 10/12/04,r #Containers: 1			200		Scr Rst:	Alpha:	Beta:
16G5KJT-1-AE J5C040248-2-SAMP [redacted] 03/03/2005 13:50		2.04g,in AmtRec: JAR60MLG	UITC12548 01/31/05,pd 10/12/04,r #Containers: 1					Scr Rst:	Alpha:	Beta:
17G5L1G-1-AA-B J5C040000-543-BLK [redacted] 03/03/2005 11:00		2.00g,in AmtRec:	UITC12549 01/31/05,pd 10/12/04,r #Containers: 1					Scr Rst:	Alpha:	Beta:
18G5L1G-1-AC-C J5C040000-543-LCS [redacted] 03/03/2005 11:00		2.00g,in AmtRec:	UISH0348 02/10/05,pd 07/23/04,r #Containers: 1					Scr Rst:	Alpha:	Beta:

Comments: Sample G5KJL-X over flowed while wet ashing lost 10-20% mH 3/9/05
Sample was crushed mH 3/9/05

All Client# for Batch:
108302, FLUOR HANFORD IC Flour Hanford Inc , BG2, 50639

G494H1AE-SAMP Constituent List:

U-232	RDL:	pCi/g	LCL:20	UCL:105	RPD:35	U-234	RDL:1	pCi/g	LCL:	UCL:	RPD:
U-235	RDL:1	pCi/g	LCL:	UCL:	RPD:	U-238	RDL:1	pCi/g	LCL:	UCL:	RPD:

G5L1G1AA-BLK:

U-232	RDL:	pCi/g	LCL:20	UCL:105	RPD:35	U-234	RDL:1	pCi/g	LCL:	UCL:	RPD:
U-235	RDL:1	pCi/g	LCL:	UCL:	RPD:	U-238	RDL:1	pCi/g	LCL:	UCL:	RPD:

57

3/11/2005 11:58:20 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/11/2004, 3/16/2005, Batch: '5063543', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
5063543							
AC			CalcC	WhitneyT	3/4/2005 6:36:08 PM		
SC				wagnerj	IsBatched	3/4/2005 5:41:41 PM	ICOC_RADCALC v4.8.08
SC				WhitneyT	InPrep	3/4/2005 6:36:08 PM	RICH-RC-5013 REVISION 5
SC				WhitneyT	Prep1C	3/5/2005 12:05:33 PM	RICH-RC-5013 REVISION 5
SC				HansenM	InPrep2	3/5/2005 1:32:17 PM	RICH-RC-5032 REVISION 2
SC				HansenM	Prep2C	3/8/2005 2:02:44 PM	RICH-RC-5032 REVISION 2
SC				FinchA	InSep1	3/9/2005 8:05:15 AM	RICH-RC-5067 REVISION 6
SC				FinchA	Sep1C	3/10/2005 8:05:43 AM	RICH-RC-5067 REVISION 6
SC				BarbosaH	InSep2	3/10/2005 8:47:52 AM	RICHRC5039 REV4
SC				BarbosaH	Sep2C	3/10/2005 1:05:56 PM	RICHRC5039 REV4
SC				BlackCL	CalcC	3/11/2005 8:23:10 AM	RICH-RD-0008 REVISION 3
AC				WhitneyT	3/5/2005 12:05:33 PM		jwDone
AC				HansenM	3/5/2005 1:32:17 PM		
AC				HansenM	3/8/2005 2:02:44 PM		
AC				FinchA	3/9/2005 8:05:15 AM		
AC				FinchA	3/10/2005 8:05:43		
AC				BarbosaH	3/10/2005 8:47:52		
AC				BarbosaH	3/10/2005 1:05:56 PM		
AC				BlackCL	3/11/2005 8:23:10		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 9

ICOCFractions v4.8.09

3/4/2005 5:26:26 PM

Sample Preparation/Analysis

108302, FLUOR HANFORD IC , Flour
Hanford Inc

Report Due: 03/11/2005

AN Tc-99 Prp/SepRC5013/5078
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

PRIORITY

Balance Id:
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech:

Batch: 5063294 SOIL pCi/g PM, Quote: BG2, 50639
SEQ Batch, Test: None All Tests: 7SSR, 7ZSS, 88OV, ANS5, 5063294 ANS5, 5063295 88OV,

[redacted]

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 G494H-1-AD J5C010147-1-SAMP [redacted] 02/28/2005 16:10		AmtRec: JAR60MLG	#Containers: 1				Scr Rst: Alpha: 6.68E+01 pCi/g	Beta: 1.78E+01 pCi/g
2 G494L-1-AD J5C010147-2-SAMP [redacted] 02/28/2005 09:30		AmtRec: JAR60MLG	#Containers: 1				Scr Rst: Alpha: 8.59E+01 pCi/g	Beta: 2.56E+01 pCi/g
3 G494N-1-AD J5C010147-3-SAMP [redacted] 02/28/2005 13:00		AmtRec: JAR60MLG	#Containers: 1				Scr Rst: Alpha: 8.68E+01 pCi/g	Beta: 2.09E+01 pCi/g
4 G5DGR-1-AD J5C020167-1-SAMP [redacted] 03/01/2005 11:10		AmtRec: JAR60MLG	#Containers: 1				Scr Rst: Alpha: 4.72E+01 pCi/g	Beta: 1.40E+01 pCi/g
5 G5DGT-1-AD J5C020167-2-SAMP [redacted] 03/01/2005 10:30		AmtRec: JAR60MLG	#Containers: 1				Scr Rst: Alpha: 5.73E+01 pCi/g	Beta: 1.62E+01 pCi/g
6 G5DGX-1-AD J5C020167-3-SAMP [redacted] 03/01/2005 08:50		AmtRec: JAR60MLG	#Containers: 1				Scr Rst: Alpha: 4.78E+01 pCi/g	Beta: 1.20E+01 pCi/g
7 G5DG2-1-AD J5C020167-4-SAMP [redacted] 03/01/2005 09:50		AmtRec: JAR60MLG	#Containers: 1				Scr Rst: Alpha: 6.26E+01 pCi/g	Beta: 1.65E+01 pCi/g

STL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 7
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added ICOC v4.8.08

3/4/2005 5:26:27 PM

Sample Preparation/Analysis

108302, FLUOR HANFORD IC , Flour
Hanford Inc

AN Tc-99 Prp/SepRC5013/5078
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

PRIORITY

Report Due: 03/11/2005

Batch: 5063294 SOIL pCi/g PM, Quote: BG2, 50639
SEQ Batch, Test: None

[redacted]

Balance Id:
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 G5DHE-1-AD J5C020167-5-SAMP [redacted] 02/25/2005 09:40		AmtRec: JAR60MLG	#Containers: 1				Scr Rst: Alpha: 6.68E+01 pCi/g	Beta: 1.27E+01 pCi/g
9 G5DHH-1-AD J5C020167-6-SAMP [redacted] 02/24/2005 13:30		AmtRec: JAR60MLG	#Containers: 1				Scr Rst: Alpha: 6.20E+01 pCi/g	Beta: 1.75E+01 pCi/g
10G5GDT-1-AD J5C030200-1-SAMP [redacted] 03/02/2005 10:00		AmtRec: 60MLG	#Containers: 1				Scr Rst: Alpha: 6.98E+01 pCi/g	Beta: 1.67E+01 pCi/g
11G5GDT-1-AF-S J5C030200-1-MS [redacted] 03/02/2005 10:00		TCSG0955 Ex:3/3/06 AmtRec: 60MLG	#Containers: 1				Scr Rst: Alpha: 6.98E+01 pCi/g	Beta: 1.67E+01 pCi/g
12G5GDT-1-AG-X J5C030200-1-DUP [redacted] 03/02/2005 10:00		AmtRec: 60MLG	#Containers: 1				Scr Rst: Alpha: 6.98E+01 pCi/g	Beta: 1.67E+01 pCi/g
13G5GD7-1-AD J5C030200-2-SAMP [redacted] 03/02/2005 12:40		AmtRec: 60MLG	#Containers: 1				Scr Rst: Alpha: 5.15E+01 pCi/g	Beta: 1.40E+01 pCi/g
14G5GEC-1-AD J5C030200-3-SAMP [redacted] 03/02/2005 15:30		AmtRec: 60MLG	#Containers: 1				Scr Rst: Alpha: 8.83E+01 pCi/g	Beta: 2.06E+01 pCi/g

60

3/4/2005 5:26:28 PM

Sample Preparation/Analysis

108302, FLUOR HANFORD IC , Flour
Hanford Inc

Report Due: 03/11/2005

AN Tc-99 Prp/SepRC5013/5078
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

Balance Id:
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech:

Batch: 5063294 **SOIL** **pCi/g** **PM, Quote: BG2, 50639**
SEQ Batch, Test: None

[redacted]

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15G5GEF-1-AD J5C030200-4-SAMP [redacted] 03/02/2005 10:00		AmtRec: 60MLG	#Containers: 1				Scr Rst: Alpha: 4.79E+01 pCi/g	Beta: 1.24E+01 pCi/g
16G5JXF-1-AA-B J5C040000-294-BLK [redacted] 03/02/2005 10:00		AmtRec:	#Containers: 1				Scr Rst: Alpha:	Beta:
17G5JXF-1-AC-C J5C040000-294-LCS [redacted] 03/02/2005 10:00		AmtRec:	#Containers: 1				Scr Rst: Alpha:	Beta:
18G5JXF-1-AD-BN J5C040000-294-IBLK [redacted] 03/02/2005 10:00		AmtRec:	#Containers: 1				Scr Rst: Alpha:	Beta:
19G5JXF-1-AE-BN J5C040000-294-IBLK [redacted] 03/02/2005 10:00		AmtRec:	#Containers: 1				Scr Rst: Alpha:	Beta:
20G5KJL-1-AC J5C040248-1-SAMP [redacted] 03/03/2005 11:00		AmtRec: JAR60MLG	#Containers: 1				Scr Rst: Alpha:	Beta:
21G5KJT-1-AC J5C040248-2-SAMP [redacted] 03/03/2005 13:50		AmtRec: JAR60MLG	#Containers: 1				Scr Rst: Alpha:	Beta:

3/4/2005 5:26:29 PM

Sample Preparation/Analysis

Balance Id:

108302, FLUOR HANFORD IC
Hanford Inc

, Flour

AN Tc-99 Prp/SepRC5013/5078
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

PRIORITY

Pipet #:

Report Due: 03/11/2005

Sep1 DT/Tm Tech:

Batch: 5063294 SOIL pCi/g PM, Quote: BG2, 50639

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

[redacted]

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

Comments:

All Clients for Batch:
108302, FLUOR HANFORD IC Flour Hanford Inc , BG2, 50639
108302, FLUOR HANFORD IC Flour Hanford Inc , BG2, 50639

G494H1AD-SAMP Constituent List:
Tc-99 RDL:15 pCi/g LCL:70 UCL:130 RPD:35
G5GDT1AF-MS:

G5JXF1AA-BLK:
Tc-99 RDL:15 pCi/g LCL: UCL: RPD:
G5JXF1AC-LCS:
Tc-99 RDL:15 pCi/g LCL:70 UCL:130 RPD:35
G5JXF1AD-IBLK:
Tc-99 RDL:15 pCi/g LCL: UCL: RPD:
G5JXF1AE-IBLK:
Tc-99 RDL:15 pCi/g LCL: UCL: RPD:

G494H1AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
G5GDT1AF-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
G5JXF1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
G5JXF1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
G5JXF1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
G5JXF1AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

3/14/2005 10:57:22 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/14/2004, 3/19/2005, Batch: '5063294', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
5063294						
AC		CalcC	WhitneyT	3/4/2005 6:36:00 PM		
SC			heidelbergt	isBatched	3/4/2005 9:47:46 AM	ICOC_RADCALC v4.8.08
SC			WhitneyT	InPrep	3/4/2005 6:36:00 PM	RICH-RC-5013 REVISION 5
SC			WhitneyT	Prep1C	3/5/2005 12:04:49 PM	RICH-RC-5013 REVISION 5
SC			FinchA	InSep1	3/7/2005 2:19:06 PM	RICH-RC-5078 REVISION2
SC			FinchA	Sep1C	3/10/2005 2:18:38 PM	RICH-RC-5079 REVISION 2
SC			StringerR	InCnt1	3/10/2005 2:41:04 PM	RICH-RD-0001 REVISION 3
SC			BlackCL	CalcC	3/14/2005 9:41:31 AM	RICH-RD-0001 REVISION 3
AC			WhitneyT	3/5/2005 12:04:49 PM		jwDone
AC			FinchA	3/7/2005 2:19:06 PM		
AC			FinchA	3/10/2005 2:18:38 PM		
AC			StringerR	3/10/2005 2:41:04 PM		
AC			BlackCL	3/14/2005 9:41:31		

AC: Accepting Entry; SC: Status Change

SEVERN TRENT STL

STL St. Louis
13715 Rider Trail North
Earth City, MO 63045

Tel: 314 298 8566 Fax: 314 298 8757
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 216-U-1/216-U-2

F05-009

Lot #: F5C040263
SDG #: W04569

Steve Trent

Fluor Hanford Inc
825 Jadwin Ave.
Richland, WA 99352

MAR 2005
RECEIVED

SEVERN TRENT LABORATORIES, INC.

MARTI WARD
Project Manager

March 11, 2005

Case Narrative
LOT NUMBER: F5C040263
W04569

This report contains the analytical results for the nine samples received under chain of custody by STL St. Louis on March 4, 2005. These samples are associated with your F05-009 SAF.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by STL St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

Observations/Nonconformances

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

Nitrate/Nitrite

There were no comments or non-conformances associated with this data.

MAR 2005
RECEIVED

SAMPLE SUMMARY

F5C040263

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
G5KMF	001	B1CDH4	03/01/05	09:50
G5KML	002	B1CDH5	03/01/05	09:50
G5KMN	003	B1CDH6	03/01/05	10:30
G5KMP	004	B1CDH7	03/01/05	11:10
G5KMR	005	B1CDH8	02/24/05	13:30
G5KMT	006	B1CDH9	02/25/05	09:40
G5KM0	007	B1CDJ0	02/28/05	16:10
G5KM1	008	B1CDJ4	02/28/05	09:30
G5KM4	009	B1CDJ5	02/28/05	13:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

METHODS SUMMARY

F5C040263

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Nitrate-Nitrite	MCAWW 353.1	
Percent Moisture	MCAWW 160.3 MOD	MCAWW 160.3 MOD

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

LOT# F5C040263

STL ST. LOUIS

Fluor Hanford Inc. CUC 5346	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F05-009-037	PAGE 1 OF 1
COLLECTOR: POPE/PFISTER/MOKLER/TYRA	COMPANY CONTACT: JACKSON, RL	TELEPHONE NO.: 372-9004	PROJECT COORDINATOR: TRENT, SJ	PRICE CODE: 8B; AIR QUALITY ☐; DATA TURNAROUND: 7 Days / 15 Days
SAMPLING LOCATION: 216-U-1 & 216-U-2; C4712 10'-12'	PROJECT DESIGNATION: U Plant Closure Contaminant Plume Refinement		SAF NO.: F05-009	
ICE CHEST NO.: GRP-04-019	FIELD LOGBOOK NO.:	COA: 119141ES10	METHOD OF SHIPMENT: ~~GOVERNMENT VEHICLE~~ ① Fed Ex ① MAB 3/3/05	
SHIPPED TO: Severn Trent St. Louis	OFFSITE PROPERTY NO.: ~~N/A~~ ① See PTR 14972		BILL OF LADING/AIR BILL NO.: ~~N/A~~ ① See PTR 14972	

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

POSSIBLE SAMPLE HAZARDS/ REMARKS: Rad tu to B1CDD0

W04569

SPECIAL HANDLING AND/OR STORAGE:

PRESERVATION	None
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1CDH4	SOIL	3-1-05	0950	X

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: JSPOPE/A Stfr 3-1-05	DATE/TIME: 1500	RECEIVED BY/STORED IN: MO-026/Ref. #1 3-1-05	DATE/TIME: 1500
RELINQUISHED BY/REMOVED FROM: MO-026 RJT 3/3/05	DATE/TIME: 0935	RECEIVED BY/STORED IN: M.A. Baichler/M.A. Baichler 3/3/05	DATE/TIME: 0935
RELINQUISHED BY/REMOVED FROM: M.A. Baichler/M.A. Baichler 3/3/05	DATE/TIME: 0935	RECEIVED BY/STORED IN: Fed Ex	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

SPECIAL INSTRUCTIONS

** The STL laboratories will close SDGs upon accumulation of 5 samples or at a minimum weekly.

(1)~~ICP Metals - 6010B (Supertrace) (Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver) ICP Metals - 6010B (Supertrace Add-On) (Antimony, Cobalt, Copper, Magnesium, Manganese, Nickel, Strontium, Thallium, Titanium, Vanadium, Zinc) Mercury - 7470 - (CV)~~; NO2/NO3 - 353.1;

RP 2/28/05

LABORATORY SECTION	RECEIVED BY: B. D. [illegible]	TITLE	DATE/TIME: 3/4/05 0900
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(03/03)

W04569

LOT# F5C040263

STL ST. LOUIS

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F05-009-038	PAGE 1 OF 1
COLLECTOR POPE/PFISTER/MOKLER/TYRA	COMPANY CONTACT JACKSON, RL	TELEPHONE NO. 372-9004	PROJECT COORDINATOR TRENT, SJ	PRICE CODE 8B AIR QUALITY ☐	DATA TURNAROUND 7 Days / 15 Days
SAMPLING LOCATION 216-U-1 & 216-U-2; C 4712 30'-32'	PROJECT DESIGNATION U Plant Closure Contaminant Plume Refinement		SAF NO. F05-009		
ICE CHEST NO. GRP-04-019	FIELD LOGBOOK NO.	COA 119141ES10	METHOD OF SHIPMENT ~~GOVERNMENT VEHICLE~~ ① Fed Ex ① MAB 3/3/05		
SHIPPED TO Severn Trent St. Louis	OFFSITE PROPERTY NO. ~~N/A~~ ① See PTR 14972		BILL OF LADING/AIR BILL NO. ~~N/A~~ ① See PTR 14972		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegitation W=Water WI=Wipe X=Other	Rad tu to B1CDD1	PRESERVATION	None
		TYPE OF CONTAINER	aG
		NO. OF CONTAINER(S)	1
		VOLUME	60mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1CDH5	SOIL	3-1-05	0950	X

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM JSPope/PFister	DATE/TIME 3-1-05 1500	RECEIVED BY/STORED IN MG-026 / Ref #1	DATE/TIME 3-1-05 1500
RELINQUISHED BY/REMOVED FROM MG-026 Ref 1	DATE/TIME 3/3/05 0935	RECEIVED BY/STORED IN MA Boechler M.A. Boechler	DATE/TIME 3/3/05 0935
RELINQUISHED BY/REMOVED FROM MA Boechler M.A. Boechler	DATE/TIME 3/3/05 0935	RECEIVED BY/STORED IN Fed Ex	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

SPECIAL INSTRUCTIONS

** The STL laboratories will close SDGs upon accumulation of 5 samples or at a minimum weekly.

(1)~~ICP Metals - 6010B (Supertrace) (Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver) ICP Metals - 6010B (Supertrace Add-On) (Antimony, Cobalt, Copper, Magnesium, Manganese, Nickel, Strontium, Thallium, Titanium, Vanadium, Zinc) Mercury - 7470 - (CV)~~; NO2/NO3 - 353.1;

RB 2/28/05

LABORATORY SECTION	RECEIVED BY B-D-P	TITLE	DATE/TIME 3/4/05 0900
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(03/03)

W04569

LOT# F5C040263

W04569

STL ST. LOUIS

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F05-009-039	PAGE 1 OF 1
COLLECTOR: POPE/PFISTER/MOKLER/TYRA	COMPANY CONTACT: JACKSON, RL	TELEPHONE NO.: 372-9004	PROJECT COORDINATOR: TRENT, SJ	PRICE CODE: 8B; DATA TURNAROUND: 7 Days / 15 Days
SAMPLING LOCATION: 216-U-1 & 216-U-2; C4712 35'-37'	PROJECT DESIGNATION: U Plant Closure Contaminant Plume Refinement		SAF NO.: F05-009	AIR QUALITY ☐
ICE CHEST NO.: GRP-04-019	FIELD LOGBOOK NO.:	COA: 119141ES10	METHOD OF SHIPMENT: ~~GOVERNMENT VEHICLE~~ ① Fed Ex ① MAB 3/3/05	
SHIPPED TO: Severn Trent St. Louis	OFFSITE PROPERTY NO.: ~~N/A~~ ① Su PTR 14972		BILL OF LADING/AIR BILL NO.: ~~N/A~~ ① Su PTR 14972	

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

POSSIBLE SAMPLE HAZARDS/ REMARKS: Red tu to B1CDD2

SPECIAL HANDLING AND/OR STORAGE:

PRESERVATION	None
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1CDH6	SOIL	3/1/05	1030	X									

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: JS Pope / A Sfer 3-1-05	DATE/TIME: 1500	RECEIVED BY/STORED IN: MO-026 / Ref. #1 3-1-05	DATE/TIME: 1500
RELINQUISHED BY/REMOVED FROM: MO-026 RL 3/3/05 0930	DATE/TIME:	RECEIVED BY/STORED IN: M.A. Boucher M.A. Boucher 3/3/05 0935	DATE/TIME:
RELINQUISHED BY/REMOVED FROM: M.A. Boucher M.A. Boucher 3/3/05 0935	DATE/TIME:	RECEIVED BY/STORED IN: Fed Ex	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

SPECIAL INSTRUCTIONS

** The STL laboratories will close SDGs upon accumulation of 5 samples or at a minimum weekly.

(1)~~ICP Metals - 6010B (Supertrace) (Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver) ICP Metals - 6010B (Supertrace Add On) (Antimony, Cobalt, Copper, Magnesium, Manganese, Nickel, Strontium, Thallium, Titanium, Vanadium, Zinc) Mercury - 7470 - (CV)~~; NO2/NO3 - 353.1;

RP 2/28/03

LABORATORY SECTION	RECEIVED BY: B-Dig	TITLE	DATE/TIME: 3/4/05 0900
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(03/03)

LOT# F5C040263

STL ST. LOUIS

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F05-009-040	PAGE 1 OF 1
COLLECTOR: POPE/PFISTER/MOKLER/TYRA	COMPANY CONTACT: JACKSON, RL — TELEPHONE NO.: 372-9004	PROJECT COORDINATOR: TRENT, SJ	PRICE CODE: 8B — DATA TURNAROUND: 7 Days / 15 Days
SAMPLING LOCATION: 216-U-1 & 216-U-2; C4712 42'-44'	PROJECT DESIGNATION: U Plant Closure Contaminant Plume Refinement	SAF NO.: F05-009	AIR QUALITY ☐
ICE CHEST NO.: GRP-04-019	FIELD LOGBOOK NO.: — COA: 119141ES10	METHOD OF SHIPMENT: ~~GOVERNMENT VEHICLE~~ ① Fed Ex ① MAB 3/3/05	
SHIPPED TO: Severn Trent St. Louis	OFFSITE PROPERTY NO.: ~~N/A~~ ① See PTR 14972	BILL OF LADING/AIR BILL NO.: ~~N/A~~ ① See PTR 14972	

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

POSSIBLE SAMPLE HAZARDS/ REMARKS: Rad to to B1CD03

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None
TYPE OF CONTAINER	BG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1CDH7	SOIL	3-1-05	1110	X

CHAIN OF POSSESSION — SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
JS Pope/JS Pope	3-1-05 1520	MG-026/Ref # 1	3-1-05 1520
MG-026 RJ Tyra	3/3/05 0936	M.G. Bauchler	3/3/05 0935
M.G. Bauchler	3/3/05 0935	Fed Ex	

SPECIAL INSTRUCTIONS

** The STL laboratories will close SDGs upon accumulation of 5 samples or at a minimum weekly.

(1) ~~ICP Metals - 6010B (Supertrace) (Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver) ICP Metals - 6010B (Supertrace Add On) (Antimony, Cobalt, Copper, Magnesium, Manganese, Nickel, Strontium, Thallium, Titanium, Vanadium, Zinc) Mercury - 7470 - (CV)~~; NO2/NO3 - 353.1;

RG 2/28/05

LABORATORY SECTION	RECEIVED BY: B-D-8	TITLE	DATE/TIME: 3/4/05 0920
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(03/03)

W04569

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F05-009-041	PAGE 1 OF 1
COLLECTOR: POPE/PFISTER/MOKLER/TYRA	COMPANY CONTACT: JACKSON, RL	TELEPHONE NO.: 372-9004	PROJECT COORDINATOR: TRENT, SJ	PRICE CODE: 8B; DATA TURNAROUND: 7 Days / 15 Days
SAMPLING LOCATION: 216-U-1 & 216-U-2; C4718 44'-46'	PROJECT DESIGNATION: U Plant Closure Contaminant Plume Refinement		SAF NO.: F05-009	AIR QUALITY ☐
ICE CHEST NO.: See PTR 14972	FIELD LOGBOOK NO.:	COA: 119141ES10	METHOD OF SHIPMENT: ~~GOVERNMENT VEHICLE~~ ① Fed Ex ① MAB 3/3/05	
SHIPPED TO: Severn Trent St. Louis	OFFSITE PROPERTY NO.: ~~N/A~~ ① GRP-05-019 4①		BILL OF LADING/AIR BILL NO.: ~~N/A~~ ① See PTR 14972	

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

POSSIBLE SAMPLE HAZARDS/ REMARKS: Rad tu to B1CDD4

SPECIAL HANDLING AND/OR STORAGE:

PRESERVATION	None
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1CDH8	SOIL	2/24/05	1330	X									

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: J. Mokler / [illegible]	DATE/TIME: 2/24/5 1405	RECEIVED BY/STORED IN: FRIDE 1 (MOORE)	DATE/TIME: 2/24/5 1426
RELINQUISHED BY/REMOVED FROM: [illegible]	DATE/TIME: 3/3/05 0900	RECEIVED BY/STORED IN: M.A. Baichler / M.C. Baichler	DATE/TIME: 3/3/05 0900
RELINQUISHED BY/REMOVED FROM: M.A. Baichler / M.C. Baichler	DATE/TIME: 3/3/05 0900	RECEIVED BY/STORED IN: Fed Ex	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

SPECIAL INSTRUCTIONS

** The STL laboratories will close SDGs upon accumulation of 5 samples or at a minimum weekly.

(1)~~ICP Metals - 6010B (Supertrace) (Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver) ICP Metals - 6010B (Supertrace Add-On) (Antimony, Cobalt, Copper, Magnesium, Manganese, Nickel, Strontium, Thallium, Titanium, Vanadium, Zinc) Mercury - 7470 - (CV)~~; NO2/NO3 - 353.1;

MAB 2/28/05

LABORATORY SECTION	RECEIVED BY: [signature]	TITLE	DATE/TIME: 3/4/05 0900
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(03/03)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F05-009-042	PAGE 1 OF 1
COLLECTOR: POPE/PFISTER/MOKLER/TYRA / HUGHES	COMPANY CONTACT: JACKSON, RL	TELEPHONE NO.: 372-9004	PROJECT COORDINATOR: TRENT, SJ	PRICE CODE: 8B; DATA TURNAROUND: 7 Days / 15 Days
SAMPLING LOCATION: 216-U-1 & 216-U-2; C4713 40'-42' 44'-46'	PROJECT DESIGNATION: U Plant Closure Contaminant Plume Refinement		SAF NO.: F05-009	AIR QUALITY ☐
ICE CHEST NO.: GRP-04-019 2/25/05	FIELD LOGBOOK NO.: HNF-N-4391	COA: 119141ES10	METHOD OF SHIPMENT: ~~GOVERNMENT VEHICLE~~ ① Fed Ex ① MAB 3/3/05	
SHIPPED TO: Severn Trent St. Louis	OFFSITE PROPERTY NO.: ~~N/A~~ ① See PTR 14972		BILL OF LADING/AIR BILL NO.: ~~N/A~~ ① See PTR 14972	

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

POSSIBLE SAMPLE HAZARDS/ REMARKS: Rad tee to B1CDD5

SPECIAL HANDLING AND/OR STORAGE:

PRESERVATION	None
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1CDH9	SOIL	2-25-05	0940	X

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: R.PFISTER/[signature]	DATE/TIME: 2/25/05 1505	RECEIVED BY/STORED IN: MO-026 FRIG#1	DATE/TIME: 2/25/05 1505
RELINQUISHED BY/REMOVED FROM: MO-026 [signature]	DATE/TIME: 3/3/05 0900	RECEIVED BY/STORED IN: M.A. Bauchner M.A. Bauchner	DATE/TIME: 3/3/05 0900
RELINQUISHED BY/REMOVED FROM: M.A. Bauchner M.A. Bauchner	DATE/TIME: 3/3/05 0900	RECEIVED BY/STORED IN: Fed Ex	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:

SPECIAL INSTRUCTIONS

** The STL laboratories will close SDGs upon accumulation of 5 samples or at a minimum weekly.

(1)~~ICP Metals - 6010B (Supertrace) (Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver) ICP Metals - 6010B (Supertrace Add-On) (Antimony, Cobalt, Copper, Magnesium, Manganese, Nickel, Strontium, Thallium, Titanium, Vanadium, Zinc) Mercury - 7470 - (CV);~~ NO2/NO3 - 353.1;

MAB 2/28/05

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
	[signature]		3/4/05 0900
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(03/03)

LOT# F5C040263

STL ST LOUIS

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F05-009-043	PAGE 1 OF 1
COLLECTOR: POPE/PFISTER/MOKLER/TYRA	COMPANY CONTACT: JACKSON, RL	TELEPHONE NO.: 372-9004	PROJECT COORDINATOR: TRENT, SJ	PRICE CODE: 8B
SAMPLING LOCATION: 216-U-1 & 216-U-2; C4711 44'-46'	PROJECT DESIGNATION: U Plant Closure Contaminant Plume Refinement		SAF NO.: F05-009	AIR QUALITY ☐
ICE CHEST NO.: GRP-04-019	FIELD LOGBOOK NO.:	COA: 119141ES10	METHOD OF SHIPMENT: ~~GOVERNMENT VEHICLE~~ ① Fed Ex ① MAB 3/3/05	DATA TURNAROUND: 7 Days / ~~15 Days~~ RP 2/28/05
SHIPPED TO: Severn Trent St. Louis	OFFSITE PROPERTY NO.: ~~N/A~~ ① See PTC 14972		BILL OF LADING/AIR BILL NO.: ~~N/A~~ ① See PTC 14972	

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

POSSIBLE SAMPLE HAZARDS/ REMARKS: Radtu to B1CDDL

SPECIAL HANDLING AND/OR STORAGE:

PRESERVATION	None												
TYPE OF CONTAINER	aG												
NO. OF CONTAINER(S)	1												
VOLUME	60mL												
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS												

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	[redacted]									
B1CDJ0	SOIL	2/28/05	1610	X									

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Bill Pope/ASR	2-28-05 ~~+5~~ 2-28-05 1100	Mg 726/Ref. #1	2-28-05 1700
Mg 726 RJT	3/3/05 0905	[illegible]	3/3/05 0905
[illegible]	3/3/05 0905	Fed Ex	

SPECIAL INSTRUCTIONS

** The STL laboratories will close SDGs upon accumulation of 5 samples or at a minimum weekly.

(1) ~~ICP Metals - 6010B (Supertrace) (Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver) ICP Metals - 6010B (Supertrace Add-On) (Antimony, Cobalt, Copper, Magnesium, Manganese, Nickel, Strontium, Thallium, Titanium, Vanadium, Zinc) Mercury - 7470 - (CV)~~; NO2/NO3 - 353.1;

RP 2/28/05

LABORATORY SECTION	RECEIVED BY: B-O-P	TITLE:	DATE/TIME: 3/4/05 0900
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD:	DISPOSED BY:	DATE/TIME:

A-6003-618(03/03)

W04569

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F05-009-047	PAGE 1 OF 1
COLLECTOR: POPE/PFISTER/MOKLER/TYRA	COMPANY CONTACT: JACKSON, RL	TELEPHONE NO.: 372-9004	PROJECT COORDINATOR: TRENT, SJ	PRICE CODE: 8B; DATA TURNAROUND: 7 Days / 15 Days
SAMPLING LOCATION: 216-U-1 & 216-U-2; ~~C-46~~ C4706 44'-46'	PROJECT DESIGNATION: U Plant Closure Contaminant Plume Refinement		SAF NO.: F05-009	AIR QUALITY ☐
ICE CHEST NO.: GRP-04-019	FIELD LOGBOOK NO.:	COA: 119141ES10	METHOD OF SHIPMENT: ~~GOVERNMENT VEHICLE~~ ① Fed Ex ① MAB 3/3/05	
SHIPPED TO: Severn Trent St. Louis	OFFSITE PROPERTY NO.: ~~N/A~~ ① Su PTR 14972		BILL OF LADING/AIR BILL NO.: ~~N/A~~ ① Su PTR 14972	

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

POSSIBLE SAMPLE HAZARDS/ REMARKS: Rad tu to B1CDFO

SPECIAL HANDLING AND/OR STORAGE:

PRESERVATION	None
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1CDJ4	SOIL	2-28-05	0930	X

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: JSPope / [signature]	DATE/TIME: 2-28-05 1700	RECEIVED BY/STORED IN: MP-026 / Ref. #1	DATE/TIME: 2-28-05 1700
RELINQUISHED BY/REMOVED FROM: MP-026 [signature]	DATE/TIME: 3/3/05 0905	RECEIVED BY/STORED IN: M.A. Baucher / M.A. Baucher	DATE/TIME: 3/3/05 0905
RELINQUISHED BY/REMOVED FROM: M.A. Baucher / M.A. Baucher	DATE/TIME: 3/3/05 0905	RECEIVED BY/STORED IN: Fed Ex	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

SPECIAL INSTRUCTIONS

** The STL laboratories will close SDGs upon accumulation of 5 samples or at a minimum weekly.

~~(1)ICP Metals - 6010B (Supertrace) (Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver) ICP Metals - 6010B (Supertrace Add-On) (Antimony, Cobalt, Copper, Magnesium, Manganese, Nickel, Strontium, Thallium, Titanium, Vanadium, Zinc) Mercury - 7470 - (CV)~~; NO2/NO3 - 353.1; [signature] 2-28-05

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
	[signature]		3/4/05 1900
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(03/03)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F05-009-048	PAGE 1 OF 1
COLLECTOR: POPE/PFISTER/MOKLER/TYRA	COMPANY CONTACT: JACKSON, RL	TELEPHONE NO.: 372-9004	PROJECT COORDINATOR: TRENT, SJ	PRICE CODE: BB; AIR QUALITY: ☐; DATA TURNAROUND: 7 Days / 15 Days
SAMPLING LOCATION: 216-U-1 & 216-U-2; C4705 44'-46'	PROJECT DESIGNATION: U Plant Closure Contaminant Plume Refinement		SAF NO.: F05-009	
ICE CHEST NO.: GRP-04-019	FIELD LOGBOOK NO.:	COA: 119141ES10	METHOD OF SHIPMENT: ~~GOVERNMENT VEHICLE~~ ① Fed Ex ① MAB 3/3/05	
SHIPPED TO: Severn Trent St. Louis	OFFSITE PROPERTY NO.: ~~N/A~~ ① See PTR 14972		BILL OF LADING/AIR BILL NO.: ~~N/A~~ ① See PTR 14972	

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

POSSIBLE SAMPLE HAZARDS/ REMARKS: Rad tu to B1CDF1

SPECIAL HANDLING AND/OR STORAGE:

PRESERVATION	None
TYPE OF CONTAINER	mG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1CDJ5	SOIL	2-28-05	1300	X									

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: JS Pope/[illegible]	DATE/TIME: 2-28-05 1700	RECEIVED BY/STORED IN: MG-026/Ref. #1	DATE/TIME: 2-28-05 1700
RELINQUISHED BY/REMOVED FROM: MG-026 Ref. 1	DATE/TIME: 3/3/05 0905	RECEIVED BY/STORED IN: M.H. Bucher M.G. Bucher	DATE/TIME: 3/3/05 0905
RELINQUISHED BY/REMOVED FROM: M.H. Bucher M.G. Bucher	DATE/TIME: 3/3/05 0905	RECEIVED BY/STORED IN: Fed Ex	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:

SPECIAL INSTRUCTIONS

** The STL laboratories will close SDGs upon accumulation of 5 samples or at a minimum weekly. [illegible] 2-28-05

~~(1)ICP Metals - 6010B (Supertrace) (Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver) ICP Metals - 6010B (Supertrace Add-On) (Antimony, Cobalt, Copper, Magnesium, Manganese, Nickel, Strontium, Thallium, Titanium, Vanadium, Zinc) Mercury - 7470 - (CV)~~; NO2/NO3 - 353.1;

LABORATORY SECTION	RECEIVED BY: B-[illegible]	TITLE:	DATE/TIME: 3/4/05 0900
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD:	DISPOSED BY:	DATE/TIME:

A-6003-618(03/03)

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F05-009: F05-009

Group #: WSCF20050456

Sample #	Client ID			CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
Radiochemistry															
W050000763	B1CDD4	GRP	TRENT	12587-46-1	Gross alpha	SOIL	LA-508-421	U	-0.140	pCi/g	1.00	1.1	03/01/05	02/24/05	02/24/05
W050000763	B1CDD4	GRP	TRENT	E,T,C	Alpha error by LC	SOIL	LA-508-421		+- 1.4	pCi/g	1.00	0.0	03/01/05	02/24/05	02/24/05
W050000763	B1CDD4	GRP	TRENT	12587-47-2	Gross beta	SOIL	LA-508-421		6.70	pCi/g	1.00	1.4	03/01/05	02/24/05	02/24/05
W050000763	B1CDD4	GRP	TRENT	E,T,C	Beta error by LC	SOIL	LA-508-421		+- 3.7	pCi/g	1.00	0.0	03/01/05	02/24/05	02/24/05

MDL=Minimum Detection Limit U - Analyzed for but not detected above limiting criteria.
RQ=Result Qualifier

DF=Dilution Factor

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

Report WGPP/ver. 1.1
Groundwater Remediation Program

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F05-009: F05-009

Group #: WSCF20050469

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
Radiochemistry														
W050000777	B1CDF1	TRENT	12587-46-1	Gross alpha	SOIL	LA-508-421	U	-0.690	pCi/g	1.00	1.1	03/01/05	02/28/05	02/28/05
W050000777	B1CDF1	TRENT	E,T,C	Alpha error by LC	SOIL	LA-508-421		+- 2.5	pCi/g	1.00	0.0	03/01/05	02/28/05	02/28/05
W050000777	B1CDF1	TRENT	12587-47-2	Gross beta	SOIL	LA-508-421		7.00	pCi/g	1.00	1.3	03/01/05	02/28/05	02/28/05
W050000777	B1CDF1	TRENT	E,T,C	Beta error by LC	SOIL	LA-508-421		+- 3.6	pCi/g	1.00	0.0	03/01/05	02/28/05	02/28/05

MDL=Minimum Detection Limit U - Analyzed for but not detected above limiting criteria.
RQ=Result Qualifier

DF=Dilution Factor

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

Report WGPP/ver. 1.1
Groundwater Remediation Program

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F05-009: F05-009

Group #: WSCF20050461

Sample #	Client ID			CAS #	Test Performed	Matrix	WSCF Method	RQ		Result	Unit	DF	MDL	Analyze	Sample	Receive
Radiochemistry																
W050000767	B1CDD5	GRP	TRENT	12587-46-1	Gross alpha	SOIL	LA-508-421	U		0.120	pCi/g	1.00	1.1	03/01/05	02/25/05	02/28/05
W050000767	B1CDD5	GRP	TRENT	E,T,C	Alpha error by LC	SOIL	LA-508-421		+-	1.2	pCi/g	1.00	0.0	03/01/05	02/25/05	02/28/05
W050000767	B1CDD5	GRP	TRENT	12587-47-2	Gross beta	SOIL	LA-508-421			7.20	pCi/g	1.00	1.3	03/01/05	02/25/05	02/28/05
W050000767	B1CDD5	GRP	TRENT	E,T,C	Beta error by LC	SOIL	LA-508-421		+-	3.6	pCi/g	1.00	0.0	03/01/05	02/25/05	02/28/05
W050000768	B1CDF0	GRP	TRENT	12587-46-1	Gross alpha	SOIL	LA-508-421	U		-0.300	pCi/g	1.00	1.1	03/01/05	02/28/05	02/28/05
W050000768	B1CDF0	GRP	TRENT	E,T,C	Alpha error by LC	SOIL	LA-508-421		+-	2.4	pCi/g	1.00	0.0	03/01/05	02/28/05	02/28/05
W050000768	B1CDF0	GRP	TRENT	12587-47-2	Gross beta	SOIL	LA-508-421			6.90	pCi/g	1.00	1.3	03/01/05	02/28/05	02/28/05
W050000768	B1CDF0	GRP	TRENT	E,T,C	Beta error by LC	SOIL	LA-508-421		+-	3.5	pCi/g	1.00	0.0	03/01/05	02/28/05	02/28/05

MDL = Minimum Detection Limit U - Analyzed for but not detected above limiting criteria.
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* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 1.1
Groundwater Remediation Program

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F05-009: F05-009

Group #: WSCF20050483

Sample #	Client ID		CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze	Sample	Receive
Radiochemistry														
W050000792	B1CDD0	TRENT	12587-46-1	Gross alpha	SOIL	LA-508-421	U	-0.200	pCi/g	1.00	1.1	03/02/05	03/01/05	03/01/05
W050000792	B1CDD0	TRENT	E,T,C	Alpha error by LC	SOIL	LA-508-421		+- 2.0	pCi/g	1.00	0.0	03/02/05	03/01/05	03/01/05
W050000792	B1CDD0	TRENT	12587-47-2	Gross beta	SOIL	LA-508-421		6.60	pCi/g	1.00	1.3	03/02/05	03/01/05	03/01/05
W050000792	B1CDD0	TRENT	E,T,C	Beta error by LC	SOIL	LA-508-421		+- 3.6	pCi/g	1.00	0.0	03/02/05	03/01/05	03/01/05
W050000793	B1CDD1	TRENT	12587-46-1	Gross alpha	SOIL	LA-508-421	U	-0.100	pCi/g	1.00	1.1	03/02/05	03/01/05	03/01/05
W050000793	B1CDD1	TRENT	E,T,C	Alpha error by LC	SOIL	LA-508-421		+- 1.0	pCi/g	1.00	0.0	03/02/05	03/01/05	03/01/05
W050000793	B1CDD1	TRENT	12587-47-2	Gross beta	SOIL	LA-508-421		5.80	pCi/g	1.00	1.4	03/02/05	03/01/05	03/01/05
W050000793	B1CDD1	TRENT	E,T,C	Beta error by LC	SOIL	LA-508-421		+- 3.5	pCi/g	1.00	0.0	03/02/05	03/01/05	03/01/05
W050000794	B1CDD2	TRENT	12587-46-1	Gross alpha	SOIL	LA-508-421	U	0.700	pCi/g	1.00	1.1	03/02/05	03/01/05	03/01/05
W050000794	B1CDD2	TRENT	E,T,C	Alpha error by LC	SOIL	LA-508-421		+- 2.7	pCi/g	1.00	0.0	03/02/05	03/01/05	03/01/05
W050000794	B1CDD2	TRENT	12587-47-2	Gross beta	SOIL	LA-508-421		8.30	pCi/g	1.00	1.4	03/02/05	03/01/05	03/01/05
W050000794	B1CDD2	TRENT	E,T,C	Beta error by LC	SOIL	LA-508-421		+- 4.2	pCi/g	1.00	0.0	03/02/05	03/01/05	03/01/05
W050000795	B1CDD3	TRENT	12587-46-1	Gross alpha	SOIL	LA-508-421	U	0.100	pCi/g	1.00	1.1	03/02/05	03/01/05	03/01/05
W050000795	B1CDD3	TRENT	E,T,C	Alpha error by LC	SOIL	LA-508-421		+- 1.0	pCi/g	1.00	0.0	03/02/05	03/01/05	03/01/05
W050000795	B1CDD3	TRENT	12587-47-2	Gross beta	SOIL	LA-508-421		7.30	pCi/g	1.00	1.4	03/02/05	03/01/05	03/01/05
W050000795	B1CDD3	TRENT	E,T,C	Beta error by LC	SOIL	LA-508-421		+- 3.7	pCi/g	1.00	0.0	03/02/05	03/01/05	03/01/05
W050000796	B1CDD6	TRENT	12587-46-1	Gross alpha	SOIL	LA-508-421	U	0.500	pCi/g	1.00	1.1	03/02/05	02/28/05	03/01/05
W050000796	B1CDD6	TRENT	E,T,C	Alpha error by LC	SOIL	LA-508-421		+- 2.4	pCi/g	1.00	0.0	03/02/05	02/28/05	03/01/05
W050000796	B1CDD6	TRENT	12587-47-2	Gross beta	SOIL	LA-508-421		7.70	pCi/g	1.00	1.4	03/02/05	02/28/05	03/01/05
W050000796	B1CDD6	TRENT	E,T,C	Beta error by LC	SOIL	LA-508-421		+- 3.8	pCi/g	1.00	0.0	03/02/05	02/28/05	03/01/05

MDL=Minimum Detection Limit U - Analyzed for but not detected above limiting criteria.
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Report WGPP/ver. 1.1
Groundwater Remediation Program

SEVERN TRENT **STL**

Lot No: F5C040263
WO 4569

Condition Upon Receipt Form
St. Louis Laboratory

Client: STL Richland
Date: 3/4/05 Time: 0900
Quote No:
Initiated by: BD
Shipper/No: FE/ 791495183725
COC/RFA Numbers: F05-009-037 -043
F05-009-4748

Condition/Variance (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	Y N	Sample received in undamaged condition?	7.	Y N	Sample received with Chain of Custody?
2.	Y N	Sample received within 4°C ± 2°C* ?	8.	Y N	Chain of Custody matches sample IDs on containers?
		Record actual	9.	Y N N/A	Custody seal received intact on cooler.?
3.	Y N N/A	Sample received with proper pH [1]?	10.	Y N N/A	Custody seal tamper evident on cooler.?
4.	Y N	If N/A - Was pH taken by original STL lab?	11.	Y N N/A	Custody seal on bottles received intact?
5.	Y N	Sample received in proper containers?	12.	Y N N/A	Custody seal tamper evident on bottles?
6.	Y N	Sample volume sufficient for analysis?	13.	Y N	Was CUR (equivalent) rec' d from original STL lab?

*** Temperature Variance Does Not Affect the Following Analyses:**

[1]For DOE-AL (Pantex, LANL, Sandia) sites, verify pH all containers received, except for VOA, TOX, and soils.

Notes:

Corrective Action:

☐ Client's Name: Informed by: By:

☐ Sample(s) processed "as is".

☐ Sample(s) on hold until: If released, notify:

Project Management Review: Mullard Date: 3.4.05

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED
IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIALS AND THE DATE NEXT TO THAT ITEM

ADMIN-0004, Revised 2/17/04
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L St. Louis

WET CHEMISTRY

FLUOR HANFORD IC

Client Sample ID: B1CDH4

General Chemistry

Lot-Sample #...: F5C040263-001 **Work Order #...:** G5KMF **Matrix.....:** SOLID
Date Sampled...: 03/01/05 **Date Received..:** 03/04/05
% Moisture.....: 4.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate/Nitrite as N	1.3	0.50	mg/kg	MCAWW 353.1	03/10/05	5069640
		Dilution Factor: 1		MDL.....: 0.027		
Percent Moisture	4.6	0.10	%	MCAWW 160.3 MOD	03/04-03/05/05	5066464
		Dilution Factor: 1		MDL.....:		

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F5C040263 **Work Order #...:** G5KMF-SMP G5KMF-DUP **Matrix.....:** SOLID

Date Sampled...: 03/01/05 **Date Received..:** 03/04/05

% Moisture.....: 4.6

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate/Nitrite as N						SD Lot-Sample #:	F5C040263-001	
	1.3	1.3	mg/kg	0.0	(0-30)	MCAWW 353.1	03/10/05	5069640

Dilution Factor: 1

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: F5C040263 **Matrix.....:** SOLID
Date Sampled...: 03/01/05 **Date Received..:** 03/04/05

Percnt Moisture: 3.2

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate/Nitrite as N			Work Order #...:		G5KMF1AE		MS Lot-Sample #: F5C040263-001	
	1.3	5.00	5.86	mg/kg	92	MCAWW 353.1	03/10/05	5069640
			Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

FLUOR HANFORD IC

Client Sample ID: B1CD85

General Chemistry

Lot-Sample #...: F5C040263-002 **Work Order #...:** G5KML **Matrix.....:** SOLID
Date Sampled...: 03/01/05 **Date Received..:** 03/04/05
% Moisture.....: 6.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate/Nitrite as N	2.2	0.50	mg/kg	MCAWW 353.1	03/10/05	5069640
		Dilution Factor: 1		MDL.....: 0.027		
Percent Moisture	6.8	0.10	%	MCAWW 160.3 MOD	03/04-03/05/05	5066464
		Dilution Factor: 1		MDL.....:		

FLUOR HANFORD IC

Client Sample ID: B1CDH6

General Chemistry

Lot-Sample #...: F5C040263-003 **Work Order #...:** G5KMN **Matrix.....:** SOLID
Date Sampled...: 03/01/05 **Date Received..:** 03/04/05
% Moisture.....: 6.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate/Nitrite as N	3.4	0.50	mg/kg	MCAWW 353.1	03/10/05	5069640
		Dilution Factor: 1		MDL.....: 0.027		
Percent Moisture	6.4	0.10	%	MCAWW 160.3 MOD	03/04-03/05/05	5066465
		Dilution Factor: 1		MDL.....:		

FLUOR HANFORD IC

Client Sample ID: B1CDH7

General Chemistry

Lot-Sample #...: F5C040263-004 **Work Order #...:** G5KMP **Matrix.....:** SOLID
Date Sampled...: 03/01/05 **Date Received..:** 03/04/05
% Moisture.....: 6.5

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate/Nitrite as N	2.7	0.50	mg/kg	MCAWW 353.1	03/10/05	5069640
		Dilution Factor: 1		MDL.....: 0.027		
Percent Moisture	6.5	0.10	%	MCAWW 160.3 MOD	03/04-03/05/05	5066465
		Dilution Factor: 1		MDL.....:		

FLUOR HANFORD IC

Client Sample ID: B1CDH8

General Chemistry

Lot-Sample #...: F5C040263-005 **Work Order #...:** G5KMR **Matrix.....:** SOLID
Date Sampled...: 02/24/05 **Date Received..:** 03/04/05
% Moisture.....: 2.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate/Nitrite as N	0.80	0.50	mg/kg	MCAWW 353.1	03/10/05	5069640
		Dilution Factor: 1		MDL.....: 0.027		
Percent Moisture	2.4	0.10	%	MCAWW 160.3 MOD	03/04-03/05/05	5066465
		Dilution Factor: 1		MDL.....:		

FLUOR HANFORD IC

Client Sample ID: B1CDH9

General Chemistry

Lot-Sample #...: F5C040263-006 **Work Order #...:** G5KMT **Matrix.....:** SOLID
Date Sampled...: 02/25/05 **Date Received..:** 03/04/05
% Moisture.....: 5.5

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate/Nitrite as N	2.6	0.50	mg/kg	MCAWW 353.1	03/10/05	5069640
		Dilution Factor: 1		MDL.....: 0.027		
Percent Moisture	5.5	0.10	%	MCAWW 160.3 MOD	03/04-03/05/05	5066465
		Dilution Factor: 1		MDL.....:		

FLUOR HANFORD IC

Client Sample ID: B1CDJ0

General Chemistry

Lot-Sample #...: F5C040263-007 **Work Order #...:** G5KM0 **Matrix.....:** SOLID
Date Sampled...: 02/28/05 **Date Received..:** 03/04/05
% Moisture.....: 2.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate/Nitrite as N	0.86	0.50	mg/kg	MCAWW 353.1	03/10/05	5069640
		Dilution Factor: 1		MDL.....: 0.027		
Percent Moisture	2.4	0.10	%	MCAWW 160.3 MOD	03/04-03/05/05	5066465
		Dilution Factor: 1		MDL.....:		

FLUOR HANFORD IC

Client Sample ID: B1CDJ4

General Chemistry

Lot-Sample #...: F5C040263-008 **Work Order #...:** G5KM1 **Matrix.....:** SOLID
Date Sampled...: 02/28/05 **Date Received..:** 03/04/05
% Moisture.....: 7.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate/Nitrite as N	3.7	0.50	mg/kg	MCAWW 353.1	03/10/05	5069640
		Dilution Factor: 1		MDL.....: 0.027		
Percent Moisture	7.6	0.10	%	MCAWW 160.3 MOD	03/04-03/05/05	5066465
		Dilution Factor: 1		MDL.....:		

FLUOR HANFORD IC

Client Sample ID: B1CDJ5

General Chemistry

Lot-Sample #...: F5C040263-009 **Work Order #...:** G5KM4 **Matrix.....:** SOLID
Date Sampled...: 02/28/05 **Date Received..:** 03/04/05
% Moisture.....: 6.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate/Nitrite as N	6.1	0.50	mg/kg	MCAWW 353.1	03/10/05	5069640
		Dilution Factor: 1		MDL.....: 0.027		
Percent Moisture	6.4	0.10	%	MCAWW 160.3 MOD	03/04-03/05/05	5066465
		Dilution Factor: 1		MDL.....:		

METHOD BLANK REPORT

General Chemistry

Client Lot #...: F5C040263 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate/Nitrite as N		Work Order #: G51LC1AA		MB Lot-Sample #:	F5C100000-640	
	ND	0.50	mg/kg	MCAWW 353.1	03/10/05	5069640
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: F5C040263 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate/Nitrite as N		WO#:G51LC1AC-LCS/G51LC1AD-LCSD				LCS Lot-Sample#: F5C100000-640		
	4.00	3.78	mg/kg	94		MCAWW 353.1	03/10/05	5069640
	4.00	3.85	mg/kg	96	1.8	MCAWW 353.1	03/10/05	5069640

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.