Analytical Data Package Prepared For

Pacific Northwest National Lab

Radiochemical Analysis By

STL Richland STLRL

2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.

Data Package Contains _____ Pages

Report Nbr: 34797

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05114	W07-002	B1M7N9	J7B060116-1	JN0H41AA	9JN0H410	7039579
		B1M7N6	J7B060116-2	JN0H61AA	9JN0H610	7039579
		B1M7N3	J7B060116-3	JN0H71AA	9JN0H710	7039579
		B1M7N0	J7B060116-4	JN0H91AA	9JN0H910	7039579
	W05114	B1M8F1	J7B070172-1	JN2X51AA	9JN2X510	7039578
		B1M8F1	J7B070172-1	JN2X51AC	9JN2X510	7039579
		B1M8D7	J7B070172-2	JN20A1AA	9JN20A10	7039578
		B1M8D7	J7B070172-2	JN20A1AC	9JN20A10	7039579
		B1M8D3	J7B070172-3	JN20Q1AA	9JN20Q10	7039578
		B1M8D3	J7B070172-3	JN20Q1AC	9JN20Q10	7039579
		B1M8C5	J7B070172-4	JN2021AA	9JN20210	7039578
		B1M8C5	J7B070172-4	JN2021AC	9JN20210	7039579
		B1M8C6	J7B070172-5	JN21N1AA	9JN21N10	7039578
		B1M8C6	J7B070172-5	JN21N1AC	9JN21N10	7039579
	W07-002	B1M878	J7B070176-1	JN2101AA	9JN21010	7039575

Comments:

Report Nbr: 34797

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05114	W07-002	B1M878	J7B070176-1	JN2101AC	9JN21010	7039577
		B1M878	J7B070176-1	JN2101AD	9JN21010	7039579
		B1M882	J7B070176-2	JN22E1AA	9JN22E10	7039575
		B1M882	J7B070176-2	JN22E1AC	9JN22E10	7039577
		B1M882	J7B070176-2	JN22E1AD	9JN22E10	7039579
		B1M886	J7B070176-3	JN22J1AC	9JN22J10	7039575
		B1M886	J7B070176-3	JN22J1AD	9JN22J10	7039578
		B1M886	J7B070176-3	JN22J1AE	9JN22J10	7039579
		B1M886	J7B070176-3	JN22J4AA	9JN22J40	7082497
		B1M8L7	J7B070176-4	JN22W1AA	9JN22W10	7039575
		B1M8L7	J7B070176-4	JN22W1AC	9JN22W10	7039578
		B1M8L7	J7B070176-4	JN22W1AD	9JN22W10	7039579
		B1M8M5	J7B070198-1	JN28K1AA	9JN28K10	7039575
		B1M8M5	J7B070198-1	JN28K1AC	9JN28K10	7039579
		B1M874	J7B070198-2	JN28P1AA	9JN28P10	7039575
		B1M874	J7B070198-2	JN28P1AC	9JN28P10	7039577
		B1M874	J7B070198-2	JN28P1AD	9JN28P10	7039579
		B1M858	J7B070198-3	JN28R1AA	9JN28R10	7039578
		B1M8M1	J7B070203-1	JN29A1AA	9JN29A10	7039575
		B1M8M1	J7B070203-1	JN29A1AC	9JN29A10	7039577
		B1M8M1	J7B070203-1	JN29A1AD	9JN29A10	7039579
		B1M862	J7B070203-2	JN29J1AC	9JN29J10	7039575
		B1M862	J7B070203-2	JN29J1AD	9JN29J10	7039578
		B1M862	J7B070203-2	JN29J1AE	9JN29J10	7039579
		B1M862	J7B070203-2	JN29J4AA	9JN29J40	7082497
		B1M866	J7B070203-3	JN29P1AA	9JN29P10	7039575

Comments:

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SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05114	W07-002	B1M866	J7B070203-3	JN29P1AC	9JN29P10	7039577
		B1M866	J7B070203-3	JN29P1AD	9JN29P10	7039579
		B1M850	J7B070203-4	JN29X1AA	9JN29X10	7039578

Comments:

SEVERN TRENT STL

STL Richland
2800 George Washington Way
Richland, WA 99354

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Certificate of Analysis

Pacific Northwest National Laboratories
Sigma V Building
Richland, WA 99352

March 27, 2007

Attention: Dot Stewart

SAF Number	:	W07-002
Date SDG Closed	:	February 6, 2007
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05114
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between February 5, 2007 and February 6, 2007, twenty 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 Pacific Northwest National Laboratories (PGW) specific IDs:

PGW ID#	STLR ID#	MATRIX	DATE OF RECEIPT
B1M7N9	JN0H4	WATER	2/5/07
B1M7N6	JN0H6	WATER	2/5/07
B1M7N3	JN0H7	WATER	2/5/07
B1M7N0	JN0H9	WATER	2/5/07
B1M8F1	JN2X5	WATER	2/5/07
B1M8D7	JN20N	WATER	2/5/07
B1M8D3	JN20Q	WATER	2/6/07
B1M8C5	JN202	WATER	2/6/07
B1M8C6	JN21N	WATER	2/6/07
B1M878	JN210	WATER	2/6/07
B1M882	JN22E	WATER	2/6/07
B1M886	JN22J	WATER	2/6/07
B1M8L7	JN22W	WATER	2/6/07

B1M8M5	JN28K	WATER	2/6/07
B1M874	JN28P	WATER	2/6/07
B1M858	JN28R	WATER	2/6/07
B1M8M1	JN29A	WATER	2/6/07
B1M862	JN29J	WATER	2/6/07
B1M866	JN29P	WATER	2/6/07
B1M850	JN29X	WATER	2/6/07

II. Sample Receipt

The samples were received in good condition and no anomalies were noted during check-in.

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 analyses were:

Gas Proportional Counting
Gross Beta by method RICH-RC-5014
Gamma Spectroscopy
Gamma Spec (LL) by method RICH-RC-5017
Liquid Scintillation Counting
Technetium-99 by TEVA method RICH-RC-5065
Laser Induced Phosphorimetry
Total Uranium by method RICH-RC-5058

IV. Quality Control

The analytical results for each analysis performed 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

Gas Proportional Counting

Gross Beta by method RICH-RC-5014:

Sample B1M886 was analyzed with reduced volumes based on an elevated screen results. The sample does not meet CRDL, but has results greater than the MDA which is greater than the CRDL. The samples were run four times due to an issue causing low yields on the LCS. The issue was corrected and acceptable QC was achieved. The samples on each run had results that agreed within counting statistics. Data is accepted. Except as noted, the LCS, batch blank, samples and sample duplicate (B1M862) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec (LL) by method RICH-RC-5017:

The LCS, batch blank, samples and sample duplicate (B1M8M1) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by TEVA method RICH-RC-5065:

The samples were analyzed in two batches: 7039577 and 7039578 respectively. In batch 7039577 the LCS, batch blank, samples, sample duplicate (B1M874), and sample matrix spike (B1M866) results are within contractual requirements. In batch 7039578 the LCS, batch blank, samples and sample matrix spike (B1M862) results are within contractual requirements.

Total Uranium

Total Uranium by method RICH-RC-5058:

The LCS, batch blank, samples, sample duplicate (B1M7N9), and sample matrix spike (B1M8C6) 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:

Sherryl A. Adam
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.

3/27/2007 12:56:20 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34797 File Name: h:\Reportdb\edd\FeadIV\Rad\W05114.Edd, h:\Reportdb\edd\FeadIV\Rad\34797.Edd

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JN0H410	B1M7N9		MW6-SBB-A1	W07-002	W05114					02/05/2007 12:08

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039579	Uranium	7440-61-1	7.92E+01	ug/L	9.6E+00	9.6E+00		8.28E-02		UTOT_KPA	2.53E-02	ML	03/20/2007 12:24	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JN0H610	B1M7N6		MW6-SBB-A1	W07-002	W05114					02/05/2007 13:32

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039579	Uranium	7440-61-1	1.08E-01	ug/L	1.1E-02	1.1E-02		8.28E-02		UTOT_KPA	2.53E-02	ML	03/20/2007 12:49	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JN0H710	B1M7N3		MW6-SBB-A1	W07-002	W05114					02/05/2007 11:17

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039579	Uranium	7440-61-1	5.81E+00	ug/L	5.9E-01	5.9E-01		8.22E-02		UTOT_KPA	2.55E-02	ML	03/20/2007 12:51	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JN0H910	B1M7N0		MW6-SBB-A1	W07-002	W05114					02/05/2007 10:34

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039579	Uranium	7440-61-1	1.08E-01	ug/L	1.1E-02	1.1E-02		8.38E-02		UTOT_KPA	2.50E-02	ML	03/20/2007 12:53	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JN20210	B1M8C5		MW6-SBB-A1	W05114	W05114					02/06/2007 08:56

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039578	TC-99	14133-76-7	2.77E+02	pCi/L	9.9E+00	2.2E+01		1.03E+01	100.0	TC99_SEP_LSC	1.258E-01	L	02/23/2007 12:23	I
7039579	Uranium	7440-61-1	6.07E+00	ug/L	6.2E-01	6.2E-01		8.03E-02		UTOT_KPA	2.61E-02	ML	03/20/2007 13:00	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JN20A10	B1M8D7		MW6-SBB-A1	W05114	W05114					02/06/2007 09:53

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039578	TC-99	14133-76-7	3.23E+03	pCi/L	3.1E+01	1.9E+02		1.03E+01	100.0	TC99_SEP_LSC	1.251E-01	L	02/23/2007 12:23	I
7039579	Uranium	7440-61-1	4.50E+00	ug/L	4.6E-01	4.6E-01		8.35E-02		UTOT_KPA	2.51E-02	ML	03/20/2007 12:57	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JN20Q10	B1M8D3		MW6-SBB-A1	W05114	W05114					02/06/2007 10:37

STL Richland

rptFeadRadSummaryEdd v3.48

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

I

3/27/2007 12:56:20 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34797 File Name: h:\Reportdb\edd\FeadIV\Rad\W05114.Edd, h:\Reportdb\edd\FeadIV\Rad\34797.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039578	TC-99	14133-76-7	2.90E+01	pCi/L	5.1E+00	7.3E+00		1.02E+01	100.0	TC99_SEP_LSC	1.274E-01	L	02/23/2007 12:23	I
7039579	Uranium	7440-61-1	3.75E+00	ug/L	3.8E-01	3.8E-01		8.32E-02		UTOT_KPA	2.52E-02	ML	03/20/2007 12:58	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JN21010	B1M878		MW6-SBB-A1	W07-002	W05114					02/06/2007 08:25

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039575	BE-7	13966-02-4	7.85E+00	pCi/L	2.3E+01	2.3E+01	U	4.25E+01		GAMMALL_GS	2.0019E+00	L	02/27/2007 11:48	I
7039575	CO-60	10198-40-0	3.09E+01	pCi/L	9.0E+00	9.0E+00		5.69E+00		GAMMALL_GS	2.0019E+00	L	02/27/2007 11:48	I
7039575	CS-134	13967-70-9	9.03E-01	pCi/L	2.8E+00	2.8E+00	U	5.35E+00		GAMMALL_GS	2.0019E+00	L	02/27/2007 11:48	I
7039575	CS-137	10045-97-3	5.10E-01	pCi/L	2.6E+00	2.6E+00	U	4.90E+00		GAMMALL_GS	2.0019E+00	L	02/27/2007 11:48	I
7039575	EU-152	14683-23-9	1.96E+00	pCi/L	5.9E+00	5.9E+00	U	1.10E+01		GAMMALL_GS	2.0019E+00	L	02/27/2007 11:48	I
7039575	EU-154	15585-10-1	-5.62E+00	pCi/L	6.6E+00	6.6E+00	U	1.05E+01		GAMMALL_GS	2.0019E+00	L	02/27/2007 11:48	I
7039575	EU-155	14391-16-3	2.09E+00	pCi/L	4.0E+00	4.0E+00	U	7.36E+00		GAMMALL_GS	2.0019E+00	L	02/27/2007 11:48	I
7039575	K-40	13966-00-2	-1.95E+01	pCi/L	4.9E+01	4.9E+01	U	1.05E+02		GAMMALL_GS	2.0019E+00	L	02/27/2007 11:48	I
7039575	RU-106	13967-48-1	-8.74E+00	pCi/L	2.1E+01	2.1E+01	U	3.68E+01		GAMMALL_GS	2.0019E+00	L	02/27/2007 11:48	I
7039575	SB-125	14234-35-6	-6.61E-01	pCi/L	5.1E+00	5.1E+00	U	9.26E+00		GAMMALL_GS	2.0019E+00	L	02/27/2007 11:48	I
7039577	TC-99	14133-76-7	1.77E+04	pCi/L	7.2E+01	1.2E+03		9.73E+00	100.0	TC99_ETVDSK_LS	1.258E-01	L	02/21/2007 03:35	I
7039579	Uranium	7440-61-1	1.34E+02	ug/L	1.6E+01	1.6E+01		7.82E-02		UTOT_KPA	2.68E-02	ML	03/20/2007 13:09	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JN21N10	B1M8C6		MW6-SBB-A1	W05114	W05114					02/06/2007 08:56

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039578	TC-99	14133-76-7	2.58E+02	pCi/L	9.6E+00	2.1E+01		1.02E+01	100.0	TC99_SEP_LSC	1.274E-01	L	02/23/2007 12:23	I
7039579	Uranium	7440-61-1	5.83E+00	ug/L	6.0E-01	6.0E-01		7.91E-02		UTOT_KPA	2.65E-02	ML	03/20/2007 13:02	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JN22E10	B1M882		MW6-SBB-A1	W07-002	W05114					02/06/2007 10:03

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039575	BE-7	13966-02-4	5.58E+00	pCi/L	2.1E+01	2.1E+01	U	3.85E+01		GAMMALL_GS	1.9988E+00	L	02/27/2007 11:48	I
7039575	CO-60	10198-40-0	4.37E+01	pCi/L	9.2E+00	9.2E+00		3.20E+00		GAMMALL_GS	1.9988E+00	L	02/27/2007 11:48	I
7039575	CS-134	13967-70-9	-5.00E-01	pCi/L	2.8E+00	2.8E+00	U	4.93E+00		GAMMALL_GS	1.9988E+00	L	02/27/2007 11:48	I
7039575	CS-137	10045-97-3	1.02E+00	pCi/L	2.1E+00	2.1E+00	U	4.16E+00		GAMMALL_GS	1.9988E+00	L	02/27/2007 11:48	I
7039575	EU-152	14683-23-9	1.17E+00	pCi/L	5.0E+00	5.0E+00	U	9.28E+00		GAMMALL_GS	1.9988E+00	L	02/27/2007 11:48	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

3/27/2007 12:56:20 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34797 File Name: h:\Reportdb\edd\FeadIV\Rad\W05114.Edd, h:\Reportdb\edd\FeadIV\Rad\34797.Edd

7039575	EU-154	15585-10-1	-1.64E+00	pCi/L	6.0E+00	6.0E+00	U	1.11E+01		GAMMALL_GS	1.9988E+00	L	02/27/2007	11:48	I
7039575	EU-155	14391-16-3	1.31E+00	pCi/L	4.4E+00	4.4E+00	U	7.87E+00		GAMMALL_GS	1.9988E+00	L	02/27/2007	11:48	I
7039575	K-40	13966-00-2	1.93E+01	pCi/L	3.3E+01	3.3E+01	U	7.40E+01		GAMMALL_GS	1.9988E+00	L	02/27/2007	11:48	I
7039575	RU-106	13967-48-1	-2.42E+01	pCi/L	2.4E+01	2.4E+01	U	3.74E+01		GAMMALL_GS	1.9988E+00	L	02/27/2007	11:48	I
7039575	SB-125	14234-35-6	2.51E+00	pCi/L	5.9E+00	5.9E+00	U	9.68E+00		GAMMALL_GS	1.9988E+00	L	02/27/2007	11:48	I
7039577	TC-99	14133-76-7	2.01E+04	pCi/L	7.7E+01	1.4E+03		9.75E+00	100.0	TC99_ETVDSK_LS	1.259E-01	L	02/21/2007	03:35	I
7039579	Uranium	7440-61-1	2.91E+01	ug/L	3.5E+00	3.5E+00		8.12E-02		UTOT_KPA	2.58E-02	ML	03/20/2007	13:13	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JN22J10	B1M886		MW6-SBB-A1	W07-002	W05114					02/06/2007 10:42

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039575	BE-7	13966-02-4	9.06E+00	pCi/L	1.7E+01	1.7E+01	U	3.51E+01		GAMMALL_GS	2.0015E+00	L	02/27/2007 11:49	I
7039575	CO-60	10198-40-0	-1.29E+00	pCi/L	2.0E+00	2.0E+00	U	3.21E+00		GAMMALL_GS	2.0015E+00	L	02/27/2007 11:49	I
7039575	CS-134	13967-70-9	8.89E-01	pCi/L	2.4E+00	2.4E+00	U	4.83E+00		GAMMALL_GS	2.0015E+00	L	02/27/2007 11:49	I
7039575	CS-137	10045-97-3	-1.72E+00	pCi/L	2.3E+00	2.3E+00	U	3.77E+00		GAMMALL_GS	2.0015E+00	L	02/27/2007 11:49	I
7039575	EU-152	14683-23-9	-3.92E+00	pCi/L	5.4E+00	5.4E+00	U	8.78E+00		GAMMALL_GS	2.0015E+00	L	02/27/2007 11:49	I
7039575	EU-154	15585-10-1	-3.49E+00	pCi/L	7.3E+00	7.3E+00	U	1.28E+01		GAMMALL_GS	2.0015E+00	L	02/27/2007 11:49	I
7039575	EU-155	14391-16-3	3.06E+00	pCi/L	4.3E+00	4.3E+00	U	8.38E+00		GAMMALL_GS	2.0015E+00	L	02/27/2007 11:49	I
7039575	K-40	13966-00-2	-2.85E+00	pCi/L	4.1E+01	4.1E+01	U	9.26E+01		GAMMALL_GS	2.0015E+00	L	02/27/2007 11:49	I
7039575	RU-106	13967-48-1	-2.25E+00	pCi/L	2.1E+01	2.1E+01	U	3.87E+01		GAMMALL_GS	2.0015E+00	L	02/27/2007 11:49	I
7039575	SB-125	14234-35-6	-2.30E+00	pCi/L	5.6E+00	5.6E+00	U	9.78E+00		GAMMALL_GS	2.0015E+00	L	02/27/2007 11:49	I
7039578	TC-99	14133-76-7	6.71E+02	pCi/L	1.5E+01	4.5E+01		1.02E+01	100.0	TC99_SEP_LSC	1.272E-01	L	02/23/2007 12:23	I
7039579	Uranium	7440-61-1	3.04E+00	ug/L	3.1E-01	3.1E-01		8.38E-02		UTOT_KPA	2.50E-02	ML	03/20/2007 13:15	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JN22J40	B1M886		MW6-SBB-A1	W07-002	W05114					02/06/2007 10:42

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7082497	BETA	12587-47-2	1.49E+02	pCi/L	6.4E+00	2.8E+01		4.62E+00	100.0	9310_ALPHABETA	9.04E-02	L	03/27/2007 08:22	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JN22W10	B1M8L7		MW6-SBB-A1	W07-002	W05114					02/06/2007 09:16

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039575	BE-7	13966-02-4	1.43E+01	pCi/L	1.9E+01	1.9E+01	U	3.65E+01		GAMMALL_GS	2.0028E+00	L	02/27/2007 11:49	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

3/27/2007 12:56:20 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34797 File Name: h:\Reportdb\edd\FeadIV\Rad\W05114.Edd, h:\Reportdb\edd\FeadIV\Rad\34797.Edd

7039575	CO-60	10198-40-0	6.67E+01	pCi/L	1.1E+01	1.1E+01		3.17E+00		GAMMALL_GS	2.0028E+00	L	02/27/2007	11:49	I
7039575	CS-134	13967-70-9	8.84E-02	pCi/L	2.5E+00	2.5E+00	U	4.53E+00		GAMMALL_GS	2.0028E+00	L	02/27/2007	11:49	I
7039575	CS-137	10045-97-3	-2.33E+00	pCi/L	2.0E+00	2.0E+00	U	3.04E+00		GAMMALL_GS	2.0028E+00	L	02/27/2007	11:49	I
7039575	EU-152	14683-23-9	1.43E+00	pCi/L	5.5E+00	5.5E+00	U	9.72E+00		GAMMALL_GS	2.0028E+00	L	02/27/2007	11:49	I
7039575	EU-154	15585-10-1	-2.07E+00	pCi/L	5.6E+00	5.6E+00	U	1.01E+01		GAMMALL_GS	2.0028E+00	L	02/27/2007	11:49	I
7039575	EU-155	14391-16-3	5.08E+00	pCi/L	4.6E+00	4.6E+00	U	8.65E+00		GAMMALL_GS	2.0028E+00	L	02/27/2007	11:49	I
7039575	K-40	13966-00-2	1.05E+01	pCi/L	2.6E+01	2.6E+01	U	5.78E+01		GAMMALL_GS	2.0028E+00	L	02/27/2007	11:49	I
7039575	RU-106	13967-48-1	-2.33E+01	pCi/L	1.8E+01	1.8E+01	U	2.67E+01		GAMMALL_GS	2.0028E+00	L	02/27/2007	11:49	I
7039575	SB-125	14234-35-6	2.65E+00	pCi/L	5.1E+00	5.1E+00	U	9.59E+00		GAMMALL_GS	2.0028E+00	L	02/27/2007	11:49	I
7039578	TC-99	14133-76-7	1.86E+04	pCi/L	7.5E+01	1.1E+03		1.04E+01	100.0	TC99_SEP_LSC	1.248E-01	L	02/23/2007	12:23	I
7039579	Uranium	7440-61-1	4.87E+00	ug/L	5.0E-01	5.0E-01		8.38E-02		UTOT_KPA	2.50E-02	ML	03/20/2007	13:17	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JN28K10	B1M8M5		MW6-SBB-A1	W07-002	W05114					02/06/2007 10:10

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7039575	BE-7	13966-02-4	-8.65E+00	pCi/L	1.8E+01	1.8E+01	U	3.08E+01		GAMMALL_GS	2.0009E+00	L	02/27/2007	13:31	I
7039575	CO-60	10198-40-0	1.38E+00	pCi/L	2.4E+00	2.4E+00	U	5.18E+00		GAMMALL_GS	2.0009E+00	L	02/27/2007	13:31	I
7039575	CS-134	13967-70-9	-6.52E-01	pCi/L	2.5E+00	2.5E+00	U	4.44E+00		GAMMALL_GS	2.0009E+00	L	02/27/2007	13:31	I
7039575	CS-137	10045-97-3	6.89E-01	pCi/L	2.4E+00	2.4E+00	U	4.50E+00		GAMMALL_GS	2.0009E+00	L	02/27/2007	13:31	I
7039575	EU-152	14683-23-9	1.04E+00	pCi/L	5.1E+00	5.1E+00	U	9.47E+00		GAMMALL_GS	2.0009E+00	L	02/27/2007	13:31	I
7039575	EU-154	15585-10-1	-5.30E-01	pCi/L	6.0E+00	6.0E+00	U	1.18E+01		GAMMALL_GS	2.0009E+00	L	02/27/2007	13:31	I
7039575	EU-155	14391-16-3	-6.00E-01	pCi/L	3.9E+00	3.9E+00	U	6.88E+00		GAMMALL_GS	2.0009E+00	L	02/27/2007	13:31	I
7039575	K-40	13966-00-2	-2.77E+01	pCi/L	4.6E+01	4.6E+01	U	9.94E+01		GAMMALL_GS	2.0009E+00	L	02/27/2007	13:31	I
7039575	RU-106	13967-48-1	6.25E+00	pCi/L	2.0E+01	2.0E+01	U	3.83E+01		GAMMALL_GS	2.0009E+00	L	02/27/2007	13:31	I
7039575	SB-125	14234-35-6	-1.52E+00	pCi/L	5.0E+00	5.0E+00	U	8.86E+00		GAMMALL_GS	2.0009E+00	L	02/27/2007	13:31	I
7039579	Uranium	7440-61-1	7.38E+00	ug/L	9.0E-01	9.0E-01		7.51E-02		UTOT_KPA	2.79E-02	ML	03/20/2007	13:20	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JN28P10	B1M874		MW6-SBB-A1	W07-002	W05114					02/06/2007 09:19

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7039575	BE-7	13966-02-4	-1.30E+01	pCi/L	1.8E+01	1.8E+01	U	2.97E+01		GAMMALL_GS	1.9952E+00	L	02/27/2007	13:31	I
7039575	CO-60	10198-40-0	9.76E-01	pCi/L	2.5E+00	2.5E+00	U	5.12E+00		GAMMALL_GS	1.9952E+00	L	02/27/2007	13:31	I
7039575	CS-134	13967-70-9	2.13E+00	pCi/L	2.1E+00	2.1E+00	U	4.54E+00		GAMMALL_GS	1.9952E+00	L	02/27/2007	13:31	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

3/27/2007 12:56:20 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34797 File Name: h:\Reportdb\edd\FeadIV\Rad\W05114.Edd, h:\Reportdb\edd\FeadIV\Rad\34797.Edd

7039575	CS-137	10045-97-3	-7.02E-02	pCi/L	1.8E+00	1.8E+00	U	3.48E+00		GAMMALL_GS	1.9952E+00	L	02/27/2007	13:31	I
7039575	EU-152	14683-23-9	-1.34E+00	pCi/L	5.3E+00	5.3E+00	U	9.27E+00		GAMMALL_GS	1.9952E+00	L	02/27/2007	13:31	I
7039575	EU-154	15585-10-1	-3.17E+00	pCi/L	6.7E+00	6.7E+00	U	1.17E+01		GAMMALL_GS	1.9952E+00	L	02/27/2007	13:31	I
7039575	EU-155	14391-16-3	1.81E+00	pCi/L	4.0E+00	4.0E+00	U	7.28E+00		GAMMALL_GS	1.9952E+00	L	02/27/2007	13:31	I
7039575	K-40	13966-00-2	-8.27E+00	pCi/L	2.8E+01	2.8E+01	U	6.04E+01		GAMMALL_GS	1.9952E+00	L	02/27/2007	13:31	I
7039575	RU-106	13967-48-1	2.92E+00	pCi/L	1.8E+01	1.8E+01	U	3.47E+01		GAMMALL_GS	1.9952E+00	L	02/27/2007	13:31	I
7039575	SB-125	14234-35-6	4.76E-01	pCi/L	4.8E+00	4.8E+00	U	8.79E+00		GAMMALL_GS	1.9952E+00	L	02/27/2007	13:31	I
7039577	TC-99	14133-76-7	1.44E+04	pCi/L	6.5E+01	9.8E+02		9.76E+00	100.0	TC99_ETVDSK_LS	1.256E-01	L	02/21/2007	03:35	I
7039579	Uranium	7440-61-1	7.91E+02	ug/L	9.6E+01	9.6E+01		7.70E-02		UTOT_KPA	2.72E-02	ML	03/20/2007	13:25	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JN28R10	B1M858		MW6-SBB-A1	W07-002	W05114					02/06/2007 11:01

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7039578	TC-99	14133-76-7	1.92E+02	pCi/L	8.5E+00	1.7E+01		1.01E+01	100.0	TC99_SEP_LSC	1.275E-01	L	02/23/2007	12:23	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JN29A10	B1M8M1		MW6-SBB-A1	W07-002	W05114					02/06/2007 10:24

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7039575	BE-7	13966-02-4	1.39E+01	pCi/L	2.1E+01	2.1E+01	U	4.19E+01		GAMMALL_GS	1.9613E+00	L	02/27/2007	13:31	I
7039575	CO-60	10198-40-0	7.25E+00	pCi/L	3.7E+00	3.7E+00	U	8.46E+00		GAMMALL_GS	1.9613E+00	L	02/27/2007	13:31	I
7039575	CS-134	13967-70-9	-2.61E-01	pCi/L	2.0E+00	2.0E+00	U	3.88E+00		GAMMALL_GS	1.9613E+00	L	02/27/2007	13:31	I
7039575	CS-137	10045-97-3	-6.99E-03	pCi/L	2.5E+00	2.5E+00	U	4.70E+00		GAMMALL_GS	1.9613E+00	L	02/27/2007	13:31	I
7039575	EU-152	14683-23-9	6.01E+00	pCi/L	5.6E+00	5.6E+00	U	1.11E+01		GAMMALL_GS	1.9613E+00	L	02/27/2007	13:31	I
7039575	EU-154	15585-10-1	2.27E+00	pCi/L	7.6E+00	7.6E+00	U	1.55E+01		GAMMALL_GS	1.9613E+00	L	02/27/2007	13:31	I
7039575	EU-155	14391-16-3	-4.61E-01	pCi/L	4.2E+00	4.2E+00	U	7.62E+00		GAMMALL_GS	1.9613E+00	L	02/27/2007	13:31	I
7039575	K-40	13966-00-2	-1.63E+01	pCi/L	4.3E+01	4.3E+01	U	9.40E+01		GAMMALL_GS	1.9613E+00	L	02/27/2007	13:31	I
7039575	RU-106	13967-48-1	5.69E+00	pCi/L	2.0E+01	2.0E+01	U	3.87E+01		GAMMALL_GS	1.9613E+00	L	02/27/2007	13:31	I
7039575	SB-125	14234-35-6	-1.86E-02	pCi/L	5.5E+00	5.5E+00	U	1.02E+01		GAMMALL_GS	1.9613E+00	L	02/27/2007	13:31	I
7039577	TC-99	14133-76-7	4.46E+03	pCi/L	3.6E+01	3.1E+02		9.63E+00	100.0	TC99_ETVDSK_LS	1.27E-01	L	02/21/2007	03:35	I
7039579	Uranium	7440-61-1	3.17E+02	ug/L	3.9E+01	3.9E+01		8.35E-02		UTOT_KPA	2.51E-02	ML	03/20/2007	13:30	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JN29J10	B1M862		MW6-SBB-A1	W07-002	W05114					02/06/2007 09:39

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

3/27/2007 12:56:20 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34797 File Name: h:\Reportdb\edd\FeadIV\Rad\W05114.Edd, h:\Reportdb\edd\FeadIV\Rad\34797.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039575	BE-7	13966-02-4	5.23E+00	pCi/L	1.7E+01	1.7E+01	U	3.10E+01		GAMMALL_GS	2.0015E+00	L	02/27/2007 15:51	I
7039575	CO-60	10198-40-0	-3.21E-01	pCi/L	1.7E+00	1.7E+00	U	3.18E+00		GAMMALL_GS	2.0015E+00	L	02/27/2007 15:51	I
7039575	CS-134	13967-70-9	4.61E-01	pCi/L	1.6E+00	1.6E+00	U	3.14E+00		GAMMALL_GS	2.0015E+00	L	02/27/2007 15:51	I
7039575	CS-137	10045-97-3	2.60E-01	pCi/L	1.7E+00	1.7E+00	U	3.24E+00		GAMMALL_GS	2.0015E+00	L	02/27/2007 15:51	I
7039575	EU-152	14683-23-9	1.61E-01	pCi/L	4.4E+00	4.4E+00	U	7.87E+00		GAMMALL_GS	2.0015E+00	L	02/27/2007 15:51	I
7039575	EU-154	15585-10-1	-1.08E+00	pCi/L	4.2E+00	4.2E+00	U	7.98E+00		GAMMALL_GS	2.0015E+00	L	02/27/2007 15:51	I
7039575	EU-155	14391-16-3	-1.27E+00	pCi/L	3.3E+00	3.3E+00	U	5.69E+00		GAMMALL_GS	2.0015E+00	L	02/27/2007 15:51	I
7039575	K-40	13966-00-2	5.99E+00	pCi/L	2.4E+01	2.4E+01	U	5.37E+01		GAMMALL_GS	2.0015E+00	L	02/27/2007 15:51	I
7039575	RU-106	13967-48-1	-2.49E+00	pCi/L	1.5E+01	1.5E+01	U	2.74E+01		GAMMALL_GS	2.0015E+00	L	02/27/2007 15:51	I
7039575	SB-125	14234-35-6	2.66E+00	pCi/L	3.8E+00	3.8E+00	U	7.57E+00		GAMMALL_GS	2.0015E+00	L	02/27/2007 15:51	I
7039578	TC-99	14133-76-7	1.92E+02	pCi/L	8.6E+00	1.7E+01		1.02E+01	100.0	TC99_SEP_LSC	1.27E-01	L	02/23/2007 12:23	I
7039579	Uranium	7440-61-1	3.14E+00	ug/L	3.2E-01	3.2E-01		8.28E-02		UTOT_KPA	2.53E-02	ML	03/20/2007 13:32	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JN29J40	B1M862		MW6-SBB-A1	W07-002	W05114					02/06/2007 09:39

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7082497	BETA	12587-47-2	5.05E+01	pCi/L	3.5E+00	8.5E+00		2.82E+00	100.0	9310_ALPHABETA	2.00E-01	L	03/27/2007 07:32	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JN29P10	B1M866		MW6-SBB-A1	W07-002	W05114					02/06/2007 08:54

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039575	BE-7	13966-02-4	-1.97E+01	pCi/L	1.9E+01	1.9E+01	U	2.95E+01		GAMMALL_GS	1.9951E+00	L	02/27/2007 17:36	I
7039575	CO-60	10198-40-0	7.77E+00	pCi/L	2.9E+00	2.9E+00	U	6.53E+00		GAMMALL_GS	1.9951E+00	L	02/27/2007 17:36	I
7039575	CS-134	13967-70-9	-5.47E-01	pCi/L	2.1E+00	2.1E+00	U	3.64E+00		GAMMALL_GS	1.9951E+00	L	02/27/2007 17:36	I
7039575	CS-137	10045-97-3	-1.78E-01	pCi/L	1.8E+00	1.8E+00	U	3.21E+00		GAMMALL_GS	1.9951E+00	L	02/27/2007 17:36	I
7039575	EU-152	14683-23-9	9.00E-01	pCi/L	4.3E+00	4.3E+00	U	7.88E+00		GAMMALL_GS	1.9951E+00	L	02/27/2007 17:36	I
7039575	EU-154	15585-10-1	7.84E-01	pCi/L	5.1E+00	5.1E+00	U	1.01E+01		GAMMALL_GS	1.9951E+00	L	02/27/2007 17:36	I
7039575	EU-155	14391-16-3	2.94E+00	pCi/L	3.7E+00	3.7E+00	U	7.04E+00		GAMMALL_GS	1.9951E+00	L	02/27/2007 17:36	I
7039575	K-40	13966-00-2	8.64E+00	pCi/L	2.8E+01	2.8E+01	U	5.95E+01		GAMMALL_GS	1.9951E+00	L	02/27/2007 17:36	I
7039575	RU-106	13967-48-1	-7.31E-01	pCi/L	1.5E+01	1.5E+01	U	2.83E+01		GAMMALL_GS	1.9951E+00	L	02/27/2007 17:36	I
7039575	SB-125	14234-35-6	3.53E+00	pCi/L	4.5E+00	4.5E+00	U	8.80E+00		GAMMALL_GS	1.9951E+00	L	02/27/2007 17:36	I
7039577	TC-99	14133-76-7	3.31E+03	pCi/L	3.1E+01	2.3E+02		9.61E+00	100.0	TC99_ETVDSK_LS	1.273E-01	L	02/21/2007 03:35	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

3/27/2007 12:56:20 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34797 File Name: h:\Reportdb\edd\FeadIV\Rad\W05114.Edd, h:\Reportdb\edd\FeadIV\Rad\34797.Edd

7039579	Uranium	7440-61-1	2.48E+01	ug/L	3.0E+00	3.0E+00	7.91E-02	UTOT_KPA	2.65E-02	ML	03/20/2007 13:34	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JN29X10	B1M850		MW6-SBB-A1	W07-002	W05114					02/06/2007 08:20

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039578	TC-99	14133-76-7	3.17E+01	pCi/L	5.2E+00	7.6E+00		1.03E+01	100.0	TC99_SEP_LSC	1.252E-01	L	02/23/2007 12:23	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JN2X510	B1M8F1		MW6-SBB-A1	W05114	W05114					02/06/2007 11:27

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7039578	TC-99	14133-76-7	8.26E+01	pCi/L	6.5E+00	1.1E+01		1.03E+01	100.0	TC99_SEP_LSC	1.26E-01	L	02/23/2007 12:23	I
7039579	Uranium	7440-61-1	6.07E+00	ug/L	6.2E-01	6.2E-01		7.70E-02		UTOT_KPA	2.72E-02	ML	03/20/2007 12:55	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Tuesday, March 27, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05114.Edd, h:\Reportdb\edd\FeadIV\Rad\34797.Edd

Lab Sample Id: JN6JM1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05114 34797
Matrix: WATER WATER
QC Type: BLK

Collection Date: 02/06/2007 10:24
Sample On Date:
Received Date: 02/06/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BD	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039575	BE-7	-4.27E-01	pCi/L	1.9E+01	U	3.45E+01			GAMMALL_GS	2.001E+00	02/27/2007				D
BLK	13966-02-4			1.9E+01						L	18:09				
7039575	CO-60	-1.64E+00	pCi/L	2.3E+00	U	3.87E+00			GAMMALL_GS	2.001E+00	02/27/2007				D
BLK	10198-40-0			2.3E+00						L	18:09				
7039575	CS-134	-4.10E-01	pCi/L	2.4E+00	U	4.33E+00			GAMMALL_GS	2.001E+00	02/27/2007				D
BLK	13967-70-9			2.4E+00						L	18:09				
7039575	CS-137	-4.54E-01	pCi/L	2.7E+00	U	4.72E+00			GAMMALL_GS	2.001E+00	02/27/2007				D
BLK	10045-97-3			2.7E+00						L	18:09				
7039575	EU-152	-4.91E+00	pCi/L	5.6E+00	U	9.09E+00			GAMMALL_GS	2.001E+00	02/27/2007				D
BLK	14683-23-9			5.6E+00						L	18:09				
7039575	EU-154	3.75E+00	pCi/L	5.7E+00	U	1.29E+01			GAMMALL_GS	2.001E+00	02/27/2007				D
BLK	15585-10-1			5.7E+00						L	18:09				
7039575	EU-155	2.11E-01	pCi/L	3.6E+00	U	6.55E+00			GAMMALL_GS	2.001E+00	02/27/2007				D
BLK	14391-16-3			3.6E+00						L	18:09				
7039575	K-40	2.59E+01	pCi/L	6.3E+01	U	3.39E+01			GAMMALL_GS	2.001E+00	02/27/2007				D
BLK	13966-00-2			6.3E+01						L	18:09				
7039575	RU-106	-6.77E+00	pCi/L	2.0E+01	U	3.56E+01			GAMMALL_GS	2.001E+00	02/27/2007				D
BLK	13967-48-1			2.0E+01						L	18:09				
7039575	SB-125	3.65E-01	pCi/L	5.1E+00	U	9.58E+00			GAMMALL_GS	2.001E+00	02/27/2007				D
BLK	14234-35-6			5.1E+00						L	18:09				

STL Richland
rptFeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Tuesday, March 27, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05114.Edd, h:\Reportdb\edd\FeadIV\Rad\34797.Edd

Lab Sample Id:	JN6JQ1AB	**Sdg/Rept Nbr:**	W05114 34797	**Collection Date:**	02/06/2007 08:54
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	02/06/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BF	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039577	TC-99	5.94E-01	pCi/L	3.8E+00	U	6.07E+00	100.0		TC99_ETVDSK	2.018E-01	02/21/2007				D
BLK	14133-76-7			2.5E+00						L	03:35				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Tuesday, March 27, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05114.Edd, h:\Reportdb\edd\FeadIV\Rad\34797.Edd

Lab Sample Id:	JN6JR1AB	**Sdg/Rept Nbr:**	W05114 34797	**Collection Date:**	02/06/2007 09:39
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	02/06/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BH	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039578	TC-99	6.82E-01	pCi/L	5.8E+00	U	1.04E+01	100.0		TC99_SEP_LS	1.255E-01	02/23/2007				D
BLK	14133-76-7			4.3E+00						L	12:23				

STL Richland

rptFeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Tuesday, March 27, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05114.Edd, h:\Reportdb\edd\FeadIV\Rad\34797.Edd

Lab Sample Id:	JN6JT1AB	**Sdg/Rept Nbr:**	W05114 34797	**Collection Date:**	02/06/2007 08:56
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	02/06/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BJ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039579	Uranium	1.83E-02	ug/L	2.3E-03	U	8.19E-02			UTOT_KPA	2.56E-02	03/20/2007				D
BLK	7440-61-1			2.3E-03						ML	12:15				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Tuesday, March 27, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05114.Edd, h:\Reportdb\edd\FeadIV\Rad\34797.Edd

Lab Sample Id: JRN1K1AB **Sdg/Rept Nbr:** W05114 34797 **Collection Date:** 02/06/2007 09:39

Client Id: NA **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 02/06/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BM	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7082497	BETA	1.23E+00	pCi/L	9.5E-01	U	1.78E+00	100.0		9310_ALPHAB	2.001E-01	03/27/2007				D
BLK	12587-47-2			9.4E-01						L	08:22				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Tuesday, March 27, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05114.Edd, h:\Reportdb\edd\FeadIV\Rad\34797.Edd

Lab Sample Id:	JN6JM1CS	**Sdg/Rept Nbr:**	W05114 34797	**Collection Date:**	02/06/2007 10:24
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	02/06/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BE	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039575	CO-60	3.36E+01	pCi/L	8.8E+00		6.53E+00		3.78E+01	GAMMALL_GS	2.00E+00	02/27/2007			70	D
BS	10198-40-0			8.8E+00				88.8		L	17:36			130	
7039575	CS-137	2.13E+01	pCi/L	6.6E+00		5.05E+00		2.49E+01	GAMMALL_GS	2.00E+00	02/27/2007			70	D
BS	10045-97-3			6.6E+00				85.2		L	17:36			130	
7039575	EU-152	6.87E+01	pCi/L	1.6E+01		1.18E+01		7.65E+01	GAMMALL_GS	2.00E+00	02/27/2007			70	D
BS	14683-23-9			1.6E+01				89.8		L	17:36			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Tuesday, March 27, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05114.Edd, h:\Reportdb\edd\FeadIV\Rad\34797.Edd

Lab Sample Id:	JN6JQ1CS	**Sdg/Rept Nbr:**	W05114 34797	**Collection Date:**	02/06/2007 08:54
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	02/06/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BG	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039577	TC-99	3.32E+02	pCi/L	2.6E+01		6.21E+00	100.0	3.39E+02	TC99_ETVDSK	2.011E-01	02/21/2007			70	D
BS	14133-76-7			8.3E+00				97.8		L	03:35			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Tuesday, March 27, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05114.Edd, h:\Reportdb\edd\FeadIV\Rad\34797.Edd

Lab Sample Id:	JN6JR1CS	**Sdg/Rept Nbr:**	W05114 34797	**Collection Date:**	02/06/2007 09:39
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	02/06/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BI	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039578	TC-99	4.88E+02	pCi/L	3.4E+01		1.03E+01	100.0	5.42E+02	TC99_SEP_LS	1.256E-01	02/23/2007			70	D
BS	14133-76-7			1.3E+01				90.1		L	12:23			130	

STL Richland

rptFeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Tuesday, March 27, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05114.Edd, h:\Reportdb\edd\FeadIV\Rad\34797.Edd

Lab Sample Id: JN6JT1CS **Sdg/Rept Nbr:** W05114 34797 **Collection Date:** 02/06/2007 08:56

Client Id: NA **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** BS **Received Date:** 02/06/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BK	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039579	Uranium	3.50E+01	ug/L	4.3E+00		8.19E-02		3.51E+01	UTOT_KPA	2.56E-02	03/20/2007			70	D
BS	7440-61-1			4.3E+00				99.6		ML	12:20			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Tuesday, March 27, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05114.Edd, h:\Reportdb\edd\FeadIV\Rad\34797.Edd

Lab Sample Id: JN6JT1DS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05114 34797
Matrix: WATER WATER
QC Type: BS

Collection Date: 02/06/2007 08:56
Sample On Date:
Received Date: 02/06/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BL	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039579	Uranium	3.50E+00	ug/L	3.6E-01		8.32E-02		3.60E+00	UTOT_KPA	2.52E-02	03/20/2007			70	D
BS	7440-61-1			3.6E-01				97.1		ML	12:22			130	

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Tuesday, March 27, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05114.Edd, h:\Reportdb\edd\FeadIV\Rad\34797.Edd

Lab Sample Id:	JRN1K1CS	**Sdg/Rept Nbr:**	W05114 34797	**Collection Date:**	02/06/2007 09:39
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	02/06/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BN	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7082497	BETA	2.19E+01	pCi/L	3.2E+00		1.89E+00	100.0	2.25E+01	9310_ALPHAB	1.997E-01	03/27/2007			70	D
BS	12587-47-2			1.7E+00				97.2		L	08:22			130	

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Tuesday, March 27, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05114.Edd, h:\Reportdb\edd\FeadIV\Rad\34797.Edd

Lab Sample Id:	JN0H41CR	**Sdg/Rept Nbr:**	W05114 34797	**Collection Date:**	02/05/2007 12:08
Client Id:	B1M7N9	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	02/05/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-002	MW6-SBB-A19981								AW	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039579	Uranium	7.87E+01	ug/L	9.6E+00		8.28E-02			UTOT_KPA	2.53E-02	03/20/2007	.6	0.1		D
DUP	7440-61-1	7.92E+01		9.6E+00						ML	12:39	20.0	3		

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Tuesday, March 27, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05114.Edd, h:\Reportdb\edd\FeadIV\Rad\34797.Edd

Lab Sample Id: JN28P1ER
Client Id: B1M874
Moisture/Solids%*:

Sdg/Rept Nbr: W05114 34797
Matrix: WATER WATER
QC Type: DUP

Collection Date: 02/06/2007 09:19
Sample On Date:
Received Date: 02/06/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-002	MW6-SBB-A19981								AY	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039577	TC-99	1.40E+04	pCi/L	9.6E+02		9.69E+00	100.0		TC99_ETVDSK	1.263E-01	02/21/2007	2.5	0.5		D
DUP	14133-76-7	1.44E+04		6.4E+01						L	03:35	20.0	3		

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B Qual- Analyte was found in the associated laboratory blank above the MDC.

Tuesday, March 27, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05114.Edd, h:\Reportdb\edd\FeadIV\Rad\34797.Edd

Lab Sample Id: JN29A1ER
Client Id: B1M8M1
Moisture/Solids%*:

Sdg/Rept Nbr: W05114 34797
Matrix: WATER WATER
QC Type: DUP

Collection Date: 02/06/2007 10:24
Sample On Date:
Received Date: 02/06/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-002	MW6-SBB-A19981								AZ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039575	BE-7	-8.83E-01	pCi/L	1.4E+01	U	2.61E+01			GAMMALL_GS	1.9567E+00	02/27/2007	227.2	1.5		D
DUP	13966-02-4	1.39E+01		1.4E+01						L	13:32	20.0	3		
7039575	CO-60	8.03E+00	pCi/L	3.0E+00		2.90E+00			GAMMALL_GS	1.9567E+00	02/27/2007	10.2	0.4		D
DUP	10198-40-0	7.25E+00		3.0E+00						L	13:32	20.0	3		
7039575	CS-134	1.30E+00	pCi/L	1.9E+00	U	3.87E+00			GAMMALL_GS	1.9567E+00	02/27/2007	300.6	1.1		D
DUP	13967-70-9	-2.61E-01		1.9E+00						L	13:32	20.0	3		
7039575	CS-137	-6.56E-01	pCi/L	1.7E+00	U	3.05E+00			GAMMALL_GS	1.9567E+00	02/27/2007	0.0	0.5		D
DUP	10045-97-3	-6.99E-03		1.7E+00						L	13:32	20.0	3		
7039575	EU-152	2.41E+00	pCi/L	4.5E+00	U	8.38E+00			GAMMALL_GS	1.9567E+00	02/27/2007	85.4	1.1		D
DUP	14683-23-9	6.01E+00		4.5E+00						L	13:32	20.0	3		
7039575	EU-154	8.47E-02	pCi/L	4.6E+00	U	9.11E+00			GAMMALL_GS	1.9567E+00	02/27/2007	185.6	0.7		D
DUP	15585-10-1	2.27E+00		4.6E+00						L	13:32	20.0	3		
7039575	EU-155	-1.15E+00	pCi/L	3.8E+00	U	6.65E+00			GAMMALL_GS	1.9567E+00	02/27/2007	0.0	0.3		D
DUP	14391-16-3	-4.61E-01		3.8E+00						L	13:32	20.0	3		
7039575	K-40	3.75E+01	pCi/L	3.1E+01	U	6.88E+01			GAMMALL_GS	1.9567E+00	02/27/2007	509.3	2.5		D
DUP	13966-00-2	-1.63E+01		3.1E+01						L	13:32	20.0	3		
7039575	RU-106	4.00E+00	pCi/L	1.7E+01	U	3.13E+01			GAMMALL_GS	1.9567E+00	02/27/2007	34.8	0.1		D
DUP	13967-48-1	5.69E+00		1.7E+01						L	13:32	20.0	3		
7039575	SB-125	3.78E+00	pCi/L	4.5E+00	U	8.85E+00			GAMMALL_GS	1.9567E+00	02/27/2007	202.0	1.2		D
DUP	14234-35-6	-1.86E-02		4.5E+00						L	13:32	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Tuesday, March 27, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05114.Edd, h:\Reportdb\edd\FeadIV\Rad\34797.Edd

Lab Sample Id:	JN29J1JR	**Sdg/Rept Nbr:**	W05114 34797	**Collection Date:**	02/06/2007 09:39
Client Id:	B1M862	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	02/06/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-002	MW6-SBB-A19981								BB	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7082497	BETA	5.60E+01	pCi/L	1.1E+01		2.75E+00	100.0		9310_ALPHAB	2.007E-01	03/27/2007	10.4	0.7		D
DUP	12587-47-2	5.05E+01		3.6E+00						L	07:32	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Tuesday, March 27, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05114.Edd, h:\Reportdb\edd\FeadIV\Rad\34797.Edd

Lab Sample Id: JN21N1DW
Client Id: B1M8C6
Moisture/Solids%*:

Sdg/Rept Nbr: W05114 34797
Matrix: WATER WATER
QC Type: MS

Collection Date: 02/06/2007 08:56
Sample On Date:
Received Date: 02/06/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W05114	MW6-SBB-A19981								AX	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039579	Uranium	3.40E+01	ug/L	4.9E+00		7.94E-02		3.42E+01	UTOT_KPA	2.64E-02	03/20/2007			60	D
MS	7440-61-1			4.9E+00				99.3		ML	13:04			140	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Tuesday, March 27, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05114.Edd, h:\Reportdb\edd\FeadIV\Rad\34797.Edd

Lab Sample Id:	JN29J1GW	**Sdg/Rept Nbr:**	W05114 34797	**Collection Date:**	02/06/2007 09:39
Client Id:	B1M862	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	MS	**Received Date:**	02/06/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-002	MW6-SBB-A19981								BA	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039578	TC-99	3.34E+03	pCi/L	2.0E+02		1.03E+01	100.0	3.66E+03	TC99_SEP_LS	1.254E-01	02/23/2007			60	D
MS	14133-76-7			3.2E+01				91.3		L	12:23			140	

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Tuesday, March 27, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05114.Edd, h:\Reportdb\edd\FeadIV\Rad\34797.Edd

Lab Sample Id: JN29P1EW
Client Id: B1M866
Moisture/Solids%*:

Sdg/Rept Nbr: W05114 34797
Matrix: WATER WATER
QC Type: MS

Collection Date: 02/06/2007 08:54
Sample On Date:
Received Date: 02/06/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-002	MW6-SBB-A19981								BC	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7039577	TC-99	3.51E+03	pCi/L	5.2E+02		9.75E+00	100.0	3.65E+03	TC99_ETVDSK	1.255E-01	02/21/2007			60	D
MS	14133-76-7			4.5E+01				96.3		L	03:35			140	

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SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/27/2007 11:15:16 AM

Lot No., Due Date: J7B070176,J7B070203; 03/23/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7082497; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05114; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used Analysis Volume => JN22J4AA 90.40<200.00 Q:VB		✓	
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. MDC/MDA > CRDL => JN22J4AA BETA 4.6E+00>4.0E+00 Q:C1		✓	
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => JN22J4AA BETA 1.5E+02 L:4.6E+00 JN29J4A BETA 5.0E+01 L:2.8E+00		✓	
8.23 Result < Action Level, when Defined. OK; No Action Level Found => BETA OK; No Callin Level Found => BETA	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

8.26 Instruments have Current Calibrations. Yes No N/A

8.27 Correct Count Library Used. Yes No N/A ✓
No Count Library found in Batch Data!

8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later version.) Yes No N/A

8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later version.) Yes No N/A

8.3 Comments: NCM - 10-09641

8.31 Results Blank Subtracted as Appropriate. Yes No N/A ✓
OK

First Level Review Lisa Antrison Date 3/27/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7082497
W05114

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: See NCR

Second Level Review: Sheryl A. Wilson Date: 3-27-07

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: **10-09641**
NCM Initiated By: Lisa Antonson
Date Opened: 03/27/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Beta by GPC-Sr/Y
Lot #'s (Sample #'s): J7B070176 (3), J7B070203 (2), J7C230000 (497),
QC Batches: 7082497

Nonconformance: Other (describe in detail)
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	03/27/2007	1. Sample JN22J4AA didn't meet CRDL due to reduced aliquot based on weight screen. Result exceeds MDA achieved. 2. Samples were run four times due to an issue causing low yeilds on the LCS. The issue was corrected, and acceptable QC was achieved. The samples on each run had results that agreed within counting statistics. Data accepted.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	03/27/2007	Report data found.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

Verified By	Due Date	Status	Notes
		This section not yet completed by QA.	

Approval History

Date Approved	Approved By	Position

Date Printed: 3/27/2007

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/28/2007 11:05:26 AM

Lot No., Due Date: J7B070176,J7B070198,J7B070203; 03/23/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7039575; RGAMMA Gamma by GER

SDG, Matrix: W05114; WATER

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 2/28/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 703957 5
W0I114

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: Sheryl A Adam Date: 6-28-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/21/2007 2:10:19 PM

Lot No., Due Date: J7B070176,J7B070198,J7B070203; 03/23/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7039577; RTC99 Tc-99 by LSC

SDG, Matrix: W05114; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples Incorrect Tracer/Vial => JN29P1AE TCSG<>TCSE Q:V9		✓	
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used OK	✓		
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. OK	✓		
8.17 Tracer within Control Limits. No Tracers found in Batch!			✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!			✓
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc_IDL Not Calculated	✓		
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => TC-99 OK; No Callin Level Found => TC-99	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

LMA 2/21/07 OK

8.26 Instruments have Current Calibrations.	Yes	No	N/A
8.27 Correct Count Library Used. No Count Library found in Batch Data!	Yes	No	N/A ✓
8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later versions).	Yes	No	N/A
8.3 Comments:			
8.31 Results Blank Subtracted as Appropriate. OK	Yes ✓	No	N/A

First Level Review Lisa Autonson **Date** 2/21/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7029577
W02114

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: Sheryl A. Adam Date: 2-23-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

2/23/2007 2:37:09 PM

Lot No., Due Date: J7B070172,J7B070176,J7B070198,J7B070203; 03/23/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7039578; RTC99 Tc-99 by LSC

SDG, Matrix: W07-002,W05114; WATER

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 2/23/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 70A578
W05114

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: Sheryl A Adam Date: 2-26-07

Lot No., Due Date: J7B060116,J7B070172,J7B070176,J7B070198,J7B070203; 03/22/2007,03/23/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7039579; RUNAT UNat by KPA

SDG, Matrix: W05114,W07-002; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples Incorrect Tracer/Vial => JN6JT1AD UNSC<>UNSF Q:V9		✓	
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used No Count Analysis Size found in Batch Data!			✓
8.07 The Correct Count Geometry was Used. No Count Geometry found in Batch Data!			✓
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. No Count Duration Field Found in Batch Data!			✓
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. OK	✓		
8.17 Tracer within Control Limits. No Tracers found in Batch!			✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!			✓
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => JN0H41AA Uranium 7.9E+01 L:8.3E-02 JN0H61AA Uranium 1.1E-01 L:8.3E-02 JN0H71AA Uranium 5.8E+00 L:8.2E-02 JN0H91AA Uranium 1.1E-01 L:8.4E-02 JN2021AC Uranium 6.1E+00 L:8.0E-02 JN20A1AC Uranium 4.5E+00 L:8.3E-02 JN20Q1AC Uranium 3.8E+00 L:8.3E-02 JN2101AD Uranium 1.3E+02 L:7.8E-02 JN21N1AC Uranium 5.8E+00 L:7.9E-02 JN22E1AD Uranium 2.9E+01 L:8.1E-02 JN22J1AE Uranium 3.0E+00 L:8.4E-02 JN22W1AD Uranium 4.9E+00 L:8.4E-02		✓	

JN28K1AC Uranium 7.4E+00 L:7.5E-02
JN28P1AD Uranium 7.9E+02 L:7.7E-02
JN29A1AD Uranium 3.2E+02 L:8.3E-02
JN29J1AE Uranium 3.1E+00 L:8.3E-02
JN29P1AD Uranium 2.5E+01 L:7.9E-02
JN2X51AC Uranium 6.1E+00 L:7.7E-02

8.23 Result <= Action Level, when Defined. Yes ✓ No N/A
OK; No Action Level Found => Uranium

OK; No Callin Level Found => Uranium

8.24 Result + 3s >=0, Not Too Negative. Yes ✓ No N/A
OK

8.25 Counting Spectrum are within FWHM Limits. Yes No N/A ✓
No FWHM found in Batch Data!

8.26 Instruments have Current Calibrations. Yes No N/A

8.27 Correct Count Library Used. Yes No N/A ✓
No Count Library found in Batch Data!

8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later versions) Yes No N/A

8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later versions) Yes No N/A

8.3 Comments:

8.31 Results Blank Subtracted as Appropriate. Yes ✓ No N/A
OK

First Level Review Pam Anderson Date 3-21-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7039579
W05114

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: Cheryl R Wilson Date: 3-21-07

PNNL J7B060116
WO 5114
Due 03-22-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-002-570**

Page 1 of 1

Collector K. Hulse	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, FEBRUARY 2007	Logbook: HNF-N-506-4	**Ice Chest No.** SML-562 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.** N/A
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.** N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1M7N9		W	2/5/07	1208	1x20-mL P	Activity Scan	None
B1M7N9		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

JNOH4

R. Walls

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
K. Hulse			FEB 05 2007 1410		Eric Darby		FEB 05 2007 1410
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	=	Soil	DS	=	Drum Solid
SE	=	Sediment	DL	=	Drum Liquid
SO	=	Solid	T	=	Tissue
SL	=	Sludge	WI	=	Wipe
W	=	Water	L	=	Liquid
O	=	Oil	V	=	Vegetation
A	=	Air	X	=	Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

PNNL J 7B060116
W05114
Due 03.22.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-002-576**

Page 1 of 1

Collector K. Hulse	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, FEBRUARY 2007	logbook: HNF-N-506-4	**Ice Chest No.** SML-562 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.** N/A
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.** N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1M7N6		W	2/5/07	1332	1x20-mL P	Activity Scan	None
B1M7N6		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JN0H6	

L. Wall 2/5/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
KS Hulse	KS Hulse		FEB 05 2007 1410	E. Darby	Eric Darby		FEB 05 2007 1410
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	= Soil	DS	= Drum Solid
SE	= Sediment	DL	= Drum Liqui
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wine
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

STL RICHLAND

PNNL J7B060116, W05114 Due 03-22-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-002-582**

Page 1 of 1

Collector K. Halse	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, FEBRUARY 2007	Logbook: HNF-N-506-4	**Ice Chest No.** SML-562 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.** N/A
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.** N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1M7N3		W	2/5/07	1117	1x20-mL P	Activity Scan	None
B1M7N3		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JNOH7	
			R. Wall 2/5/07				

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
KS Halse	KS Halse	FEB 05 2007 1410	E Daly	Eric Daly	FEB 05 2007 1410
Relinquished By		Date/Time	Received By		Date/Time
Relinquished By		Date/Time	Received By		Date/Time
Relinquished By		Date/Time	Received By		Date/Time

Matrix *

S	= Soil	DS	= Drum Solid
SE	= Sediment	DL	= Drum Liquid
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wipe
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

PNNL J7B060116
W05114
Due 03-22-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-002-588**

Page 1 of 1

Collector K. Hulse	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, FEBRUARY 2007	Logbook: HNF-N-506-4	**Ice Chest No.** SMC-562 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.** N/A
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.** N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1M7N0		W	2/5/07	1034	1x20-mL P	Activity Scan	None
B1M7N0		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

JN0H9

R. Walls 2/5/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
K. Hulse			FEB 05 2007 1410		Eric Darby		FEB 05 2007 1410
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	= Soil	DS	= Drum Solid
SE	= Sediment	DL	= Drum Liqui
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wine
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

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STL

Sample Check-in List

Date/Time Received: 2/5/07

Client: PNL SDG #: W05114 NA ( ) SAF #: W07-002 NA ( )

Work Order Number: J7B060116 Chain of Custody # W07-002-570,576,582,588

Shipping Container ID: _____ 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: Eric Darby Date: 2/5/07 1410

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

STL RICHLAND

PNNL J7B070172
W05114
Due 03-23-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-002-114**

Page 1 of 1

Collector FLUOR HANFORD M.R. WEIL	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. W07-002	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA, FEBRUARY 2007	HNF-N-506 3	Ice Chest No. ROSS Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol RCRA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1M8F1		W	2-6-07	1127	1x20-mL P	Activity Scan	None
B1M8F1		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1M8F1		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
						JN2X5	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD M.R. WEIL	[signature]		1315 FEB 0 6 2007	E Dutby	Eric Dutby		1315 FEB 0 6 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	= Soil	DS	= Drum Solid
SE	= Sediment	DL	= Drum Liqui
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wine
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

PNNL JTB070172
W03114
Due 03.23.07
FLUOR HANFORD
M.R. WEIL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-002-120**

Page 1 of 1

Collector M.R. WEIL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, FEBRUARY 2007	HWF-N-506 3	**Ice Chest No.** Ross **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1M8D7		W	2-6-07	0953	1x20-mL P	Activity Scan	None
B1M8D7		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1M8D7		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
						JN20A	

Relinquished By	Date/Time	Received By	Date/Time
Print: FLUOR HANFORD M.R. WEIL; Sign: [signature]	FEB 06 2007 1315	Print: Eric Darby; Sign: [signature]	FEB 06 2007 1315

Matrix *

S	= Soil	DS	= Drum Solid
SE	= Sediment	DL	= Drum Liqui
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wipe
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

PNNL J7B070172
W05114
Due 03-23-07
FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-002-126**

Page 1 of 1

Collector M.R. WEIL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, FEBRUARY 2007	HNF-N-506 3	**Ice Chest No.** Ross **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1M8D3		W	2-6-07	1037	1x20-mL P	Activity Scan	None
B1M8D3		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1M8D3		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
						JN209	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD	M.R. WEIL		FEB 0 6 2007 1315		Eric Darby		FEB 0 6 2007 1315
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	= Soil	DS	= Drum Solid
SE	= Sediment	DL	= Drum Liquid
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wine
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

STL RICHLAND

55

STL RICHLAND

PNNL J7B070172
W05114
Due 03-23-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-002-132**

Page 1 of 1

Collector: FLUOR HANFORD M.R. WEIL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, FEBRUARY 2007	HNF-N-506 3	Ice Chest No.: Rost Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1M8C5		W	2-6-07	0856	1x20-mL P	Activity Scan	None
B1M8C5		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1M8C5		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
						JN202	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD M.R. WEIL			1315 FEB 0 6 2007		Eric Darby	Eric Darby	1315 FEB 0 6 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

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PNNL J7B070172
W05114
Due 03-23-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-002-133**

Page 1 of 1

Collector: FLUOR HANFORD M.R. WEIL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, FEBRUARY 2007	HNF-N-5063	Ice Chest No.: ROSS Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1M8C6		W	2-6-07	0856	1x20-mL P	Activity Scan	None
B1M8C6		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1M8C6		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
						JN21N	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD M.R. WEIL	[signature]		FEB 0 6 2007 1315	[signature]	Eric Darby		FEB 0 6 2007 1315
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	= Soil	DS	= Drum Solid
SE	= Sediment	DL	= Drum Liqui
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wine
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

STL

Sample Check-in List

Date/Time Received: 2/6/07 1315

Client: PNL SDG #: W05114 NA [ ] SAF #: W07-002 NA [ ]

Work Order Number: J7B070172 Chain of Custody # W07-002, 120, 132, 133, 114, 126

Shipping Container ID: _____ 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? NA [ ] Yes [✓] No [ ]
4. Cooler temperature. _____ NA [✓] Yes [ ] No [ ]
5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 5
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? *
    *For documentation only. No corrective action needed. Yes [✓] No [ ]
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers) _____

Sample Custodian: [signature] Date: 2/6/07 1315

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

PNNL J7B070176
W05114
Due 03-23-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-002-68**

Page 1 of 1

Collector Fluor Hanford D. R. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, FEBRUARY 2007	HNF-N-5061	**Ice Chest No.** SAWS-109 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	Priority: 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1M878		W	2-6-07	0825	1x20-mL P	Activity Scan	None
B1M878		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1M878		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1M878		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JN210	

DP
2-6-07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON	D.R. Brewington		1255 FEB 06 2007	Eric Darby	ERIC Darby		1255 FEB 06 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	= Soil	DS	= Drum Solid
SE	= Sediment	DL	= Drum Liqui
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wine
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

STL RICHLAND

PNNL J7B070176
W05114
Due 03-23-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-002-74

Page 1 of 1

Collector: Fluor Hanford D. R. BREWINGTON	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, FEBRUARY 2007	HNF-N-5061	Ice Chest No.: S4WS-109 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1M882		W	2-6-07	1003	1x20-mL P	Activity Scan	None
B1M882		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1M882		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1M882		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

JN22E

2-6-07

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Fluor Hanford D. R. BREWINGTON DR Brewington	FEB 06 2007 1255	Eric Darby Eric Darby	FEB 06 2007 1255
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

SITE RECHLAND

60

PNNL J7B070176
W05114
Due 03-23-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-002-80**

Page 1 of 1

Collector Fluor Hanford ~~D. R. BREWINGTON~~	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, FEBRUARY 2007	HNF-N-506 1	**Ice Chest No.** SAWS-109 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1M886		W	2-6-07	1042	1x20-mL P	Activity Scan	None
B1M886		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1M886		W			3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
B1M886		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1M886		W			1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2

JN22J

2-6-07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON			FEB 06 2007 1255		Eric Darby		FEB 06 2007 1255
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	= Soil	DS	= Drum Solid
SE	= Sediment	DL	= Drum Liqui
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wine
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

STL RICHLAND

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STL RICHLAND

PNNL JNB070176
W05114
Due 03-23-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-002-90**

Page 1 of 1

Collector Fluor Hanford D. R. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, FEBRUARY 2007	HNF-N-506	**Ice Chest No.** SAWS-109 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	Priority: 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1M8L7		W	2-6-07	0916	1x20-mL P	Activity Scan	None
B1M8L7		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1M8L7		W			3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
B1M8L7		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
						JN22W	
						2-6-07	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON	D R Brewington		1255 FEB 06 2007	Eric Darby	Eric Darby		1255 FEB 06 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	= Soil	DS	= Drum Solid
SE	= Sediment	DL	= Drum Liqui
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wine
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 2/6/07 1255

Client: PNL SDG #: W05114 NA ( ) SAF #: W07-002 NA ( )

Work Order Number: J7B070176 Chain of Custody #: W07-002-68, 74, 80, 90

Shipping Container ID: _____ 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? NA ( ) Yes (✓) No ( )

4 Cooler temperature: _____ NA (✓) 5 Vermiculite/packing materials is NA (✓) Yes ( ) 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? *
*For documentation only. No corrective action needed. Yes (✓) No ( )

12 Were any anomalies identified in sample receipt? Yes ( ) No (✓)

13 Description of anomalies (include sample numbers): _____

Sample Custodian: Eric Darby Date: 2/6/07 1255

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

PNNL J7B070198
W05114
Due 05.23.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-002-102**

Page 1 of 1

Collector: K.J. YOUNG	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, FEBRUARY 2007	Logbook: HNF-N-506-4	Ice Chest No.: SML-562 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1M8M5		W	2/6/07	1010	1x20-mL P	Activity Scan	None
B1M8M5		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1M8M5		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
						JN28K	

L Wall 2/6/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
K.J. YOUNG	[signature]		FEB 06 2007 1155	[signature]	Eric Darby		FEB 06 2007 1155
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	= Soil	DS	= Drum Solid
SE	= Sediment	DL	= Drum Liqui
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wine
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

PNNL J7B070198
W05114
Due 03-23-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-002-62**

Page 1 of 1

Collector K.J. YOUNG	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, FEBRUARY 2007	Logbook: HNF-N-506-4	**Ice Chest No.** SML-562 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1M874		W	2/6/07	0919	1x20-mL P	Activity Scan	None
B1M874		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1M874		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1M874		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JN28P	

K. Wall 2/6/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
K.J. YOUNG	[signature]		FEB 06 2007 1155	[signature]	Eric Darby		FEB 06 2007 1155
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	= Soil	DS	= Drum Solid
SE	= Sediment	DL	= Drum Liqui
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wine
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

STL RICHLAND

65

PNNL 07B070198
W05114
Due 03-23-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-002-108**

Page 1 of 1

Collector K.J. YOUNG	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, FEBRUARY 2007	Logbook: HNF-N-506-4	**Ice Chest No.** SML-562 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1M858		W	2/6/07	1101	1x20-mL P	Activity Scan	None
B1M858		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
						JN28R	
						R. Wall 2/6/07	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
K.J. YOUNG			FEB 06 2007 1155	Eric Darby	Eric Darby		FEB 06 2007 1155
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	=	Soil	DS	=	Drum Solid
SE	=	Sediment	DL	=	Drum Liqui
SO	=	Solid	T	=	Tissue
SL	=	Sludge	WI	=	Wipe
W	=	Water	L	=	Liquid
O	=	Oil	V	=	Vegetation
A	=	Air	X	=	Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

SHL RICHLAND

STL

Sample Check-in List

Date/Time Received: 2/6/07 1155

Client: PNL SDG #: W05114 NA [ ] SAF #: W07-002 NA [ ]

Work Order Number: J7B070198 Chain of Custody # W07-002-102,62,108

Shipping Container ID: _____ 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: 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? *
    *For documentation only. No corrective action needed. Yes [✓] No [ ]
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: Eric Darby Date: 2/6/07 1155

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

PNNL J7B070203
W05114
Due 03-23-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-002-96**

Page 1 of 1

Contact/Requester: D.P. CONNOLLY	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, FEBRUARY 2007	HNF-N-506-2	Ice Chest No.: 115 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1M8M1		W	2-6-07	1024	1x20-mL P	Activity Scan	None
B1M8M1		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1M8M1		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1M8M1		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JN29A	

Relinquished By	Received By
Print: D.P. CONNOLLY Sign: [signature] Date/Time: FEB 06 2007 1150	Print: Eric Dorley Sign: [signature] Date/Time: FEB 06 2007 1150
Relinquished By Date/Time	Received By Date/Time
Relinquished By Date/Time	Received By Date/Time
Relinquished By Date/Time	Received By Date/Time

Matrix *

S	= Soil	DS	= Drum Solid
SE	= Sediment	DL	= Drum Liqui
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wine
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

SIL RICHLAND

68

PNNL J7B070203
W05114
Due 03-23-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-002-44**

Page 1 of 1

Collector: D.P. CONNOLLY	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, FEBRUARY 2007	1X NF-N-506-2	Ice Chest No.: 115 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1M862		W	2607	0930	1x20-mL P	Activity Scan	None
B1M862		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1M862		W			3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
B1M862		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1M862		W			1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
						JN29J	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D.P. CONNOLLY			FEB 06 2007 1150		Eric Darby	Eric Darby	FEB 06 2007 1150
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

SIL RICHLAND

69

PNNL J7B070203
W05114
Due 03-23-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-002-50**

Page 1 of 1

Collector: D. P. CONNOLLY	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, FEBRUARY 2007	HNF-N-506-2	Ice Chest No.: 115 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1M866		W	2-6-07	0854	1x20-mL P	Activity Scan	None
B1M866		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1M866		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1M866		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JN29P	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. P. CONNOLLY			FEB 06 2007 1150		ERIC DARBY		FEB 06 2007 1150
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S	=	Soil	DS	=	Drum Solid
SE	=	Sediment	DL	=	Drum Liqui
SO	=	Solid	T	=	Tissue
SL	=	Sludge	WI	=	Wine
W	=	Water	L	=	Liquid
O	=	Oil	V	=	Vegetation
A	=	Air	X	=	Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

PNNL J7B070203
W0514
Due 03-23-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-002-32**

Page 1 of 1

Collector: D.P. CONNOLLY	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, FEBRUARY 2007	HNF-N-500-2	Ice Chest No.: 115 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1M850		W	2-6-07	0820	1x20-mL P	Activity Scan	None
B1M850		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2

JN29X

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D.P. CONNOLLY			FEB 06 2007 1150		Eric Daley	Eric Daley	FEB 06 2007 1150
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

STL RICHLAND

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SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 2/6/07 1155

Client: PNL SDG #: W05114 NA [ ] SAF # W07-002 NA [ ]

Work Order Number: JTB070203 Chain of Custody # W07-002-96,44,50,32

Shipping Container ID: _____ 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? *
*For documentation only. No corrective action needed. Yes [✓] No [ ]

12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]

13 Description of anomalies (include sample numbers): _____

Sample Custodian: Eric Darby Date: 2/6/07 1155

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

STL RICHLAND

3/26/2007 9:23:40 AM

Sample Preparation/Analysis

RICHTN

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

BC Gross Beta PrpRC5014
S8 Gross Beta by GPC using Sr/Y-90 curve
5I CLIENT: HANFORD

Balance Id:1120482733
Pipet #:

AnalyDueDate: 03/23/2007

Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: BockJ /APA

Batch: 7082497 WATER pCi/L PM, Quote: SA , 57671

SEQ Batch, Test: None All Tests: 7039575 AWTA, 7039576 BCS8, 7039577 FPS5, 7039578 AMS5, 7039579 DHSS, 7065148 BCS8, 7081334 BCS8, 7082497 BCS8,

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 JN22J-4-AA J7B070176-3-SAMP 02/06/2007 10:42		90.40g,in AmtRec: 20ML,500ML,4XLP,4LP #Containers: 7		1.5	86.1	200	31A	1001	3/27/07	Scr: Alpha: 2.36E-04 uCi/Sa Beta: -5.59E-05 uCi/Sa
2 JN29J-1-AJ-X J7B070203-2-DUP 02/06/2007 09:39		200.70g,in AmtRec: 20ML,500ML,4XLP,4LP #Containers: 7			89.4	100	30A	0824		Scr: Alpha: -4.26E-05 uCi/Sa Beta: -1.06E-03 uCi/Sa
3 JN29J-4-AA J7B070203-2-SAMP 02/06/2007 09:39		200.00g,in AmtRec: 20ML,500ML,4XLP,4LP #Containers: 7			88.8		30B			Scr: Alpha: -4.26E-05 uCi/Sa Beta: -1.06E-03 uCi/Sa
4 JRN1K-1-AA-B J7C230000-497-BLK 02/06/2007 09:39		200.10g,in AmtRec: #Containers: 1			Ø	200	31B	1001		Scr: Alpha: Beta:
5 JRN1K-1-AC-C J7C230000-497-LCS 02/06/2007 09:39		199.70g,in AmtRec: #Containers: 1	BESB3037 02/26/07,pd 08/08/06,r		Ø		31C			Scr: Alpha: Beta:

Comments: JN22J-SAMP "Comments. Aliquot reduced due to weight screen activity. JB 03/06/07"
JN29J-DUP "Comments. No sample left that was intended for the beta, so substituded the sample to be used for tech. JB 03/26/07"

PH <2.0 JB 3-26-07

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

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3/26/2007 9:23:46 AM

Sample Preparation/Analysis

BC Gross Beta PrpRC5014
S8 Gross Beta by GPC using Sr/Y-90 curve
5I CLIENT: HANFORD

Balance Id:1120482733
Pipet #: _____
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,BockJ

AnalyDueDate: 03/23/2007

Batch: 7082497
SEQ Batch, Test: None

pCi/L

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:

```
JN22J4AA-SAMP Constituent List:
  BETA        RDL:4.00E+00    pCi/L    LCL:       UCL:       RPD:
JRN1K1AA-BLK:
  BETA        RDL:4.00E+00    pCi/L    LCL:       UCL:       RPD:
JRN1K1AC-LCS:
  Sr-90       RDL:            pCi/L    LCL:70     UCL:130    RPD:20
JN22J4AA-SAMP Calc Info:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
JRN1K1AA-BLK:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
JRN1K1AC-LCS:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

Approved By _____ Date: _____

2/20/2007 2:23:44 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AW Gamma PrpRC5017
TA Gamma by HPGE
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #:

AnalyDueDate: 03/23/2007

Sep1 DT/Tm Tech:

Batch: 7039575 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ/APA

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 JN210-1-AA J7B070176-1-SAMP 02/06/2007 08:25		2001.90g,in AmtRec: 20ML,2X500ML,4LP #Containers: 4			100mL	100	66 Scr:	1328 Alpha: 1.66E-06 uCi/Sa	2/27/07	Beta: 5.59E-07 uCi/Sa
2 JN22E-1-AA J7B070176-2-SAMP 02/06/2007 10:03		1998.80g,in AmtRec: 20ML,2X500ML,4LP #Containers: 4					68 Scr:	1328 Alpha: 2.32E-06 uCi/Sa		Beta: 9.14E-07 uCi/Sa
3 JN22J-1-AC J7B070176-3-SAMP 02/06/2007 10:42		2001.50g,in AmtRec: 20ML,500ML,4XLP,4LP #Containers: 7					67 Scr:	1328 Alpha: 2.36E-04 uCi/Sa		Beta: -5.59E-05 uCi/Sa
4 JN22W-1-AA J7B070176-4-SAMP 02/06/2007 09:16		2002.80g,in AmtRec: 20ML,500ML,3XLP,4LP #Containers: 6					610 Scr:	1329 Alpha: 1.54E-03 uCi/Sa		Beta: 9.31E-04 uCi/Sa
5 JN28K-1-AA J7B070198-1-SAMP 02/06/2007 10:10		2000.90g,in AmtRec: 20ML,500ML,4LP #Containers: 3					66 Scr:	1511 Alpha: 1.84E-05 uCi/Sa	2/27/07	Beta: -2.95E-05 uCi/Sa
6 JN28P-1-AA J7B070198-2-SAMP 02/06/2007 09:19		1995.20g,in AmtRec: 20ML,2X500ML,4LP #Containers: 4					68 Scr:	1511 Alpha: 4.87E-06 uCi/Sa		Beta: 1.03E-06 uCi/Sa
7 JN29A-1-AA J7B070203-1-SAMP 02/06/2007 10:24		1961.30g,in AmtRec: 20ML,2X500ML,4LP #Containers: 4					67 Scr:	1511 Alpha: 9.72E-07 uCi/Sa		Beta: -6.85E-07 uCi/Sa

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 Prep_SamplePrep v4.8.26

STL RICHLAND

5

2/20/2007 2:23:49 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AW Gamma PrpRC5017
TA Gamma by HPGE
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 03/23/2007

Sep1 DT/Tm Tech:

Batch: 7039575 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

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 JN29A-1-AE-X J7B070203-1-DUP 02/06/2007 10:24		1956.70g,in AmtRec: 20ML,2X500ML,4LP #Containers: 4			100 mL	100	G10	1512	2/27/07	
							Scr:	Alpha: 9.72E-07 uCi/Sa	Beta: -6.85E-07 uCi/Sa	
9 JN29J-1-AC J7B070203-2-SAMP 02/06/2007 09:39		2001.50g,in AmtRec: 20ML,500ML,4XLP,4LP #Containers: 7					G10	1731	2/27/07	
							Scr:	Alpha: -4.26E-05 uCi/Sa	Beta: -1.06E-03 uCi/Sa	
10 JN29P-1-AA J7B070203-3-SAMP 02/06/2007 08:54		1995.10g,in AmtRec: 20ML,2X500ML,4LP #Containers: 4					G10	1916	2/27/07	
							Scr:	Alpha: 8.06E-07 uCi/Sa	Beta: 3.83E-07 uCi/Sa	
11 JN6JM-1-AA-B J7B080000-575-BLK 02/06/2007 10:24		2001.00g,in AmtRec: #Containers: 1					G6	1949		
							Scr:	Alpha:	Beta:	
12 JN6JM-1-AC-C J7B080000-575-LCS 02/06/2007 10:24		2000.00g,in AmtRec: #Containers: 1	QCAG1339 01/23/07,pd 03/07/05,r				G7	1916	2/27/07	
							Scr:	Alpha:	Beta:	

Comments: BA <2.0 JB 2-20-07

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JN2101AA-SAMP Constituent List:

Co-60	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:

2/20/2007 2:23:55 PM

Sample Preparation/Analysis

AW Gamma PrpRC5017
TA Gamma by HPGE
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 03/23/2007

Sep1 DT/Tm Tech:

Batch: 7039575 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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:
Cs-137	RDL:6.00E+00	pCi/L	LCL:70	UCL:130	RPD:20	Cs-137DA	RDL:6.00E+00	pCi/L	LCL:70	UCL:130	RPD:20
Eu-154	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Eu-155	RDL:.00E+00	pCi/L	LCL:	UCL:	RPD:
K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Sb-125	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
JN6JM1AA-BLK:											
Co-60	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:6.00E+00	pCi/L	LCL:	UCL:	RPD:	Cs-137DA	RDL:6.00E+00	pCi/L	LCL:	UCL:	RPD:
Eu-154	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Eu-155	RDL:.00E+00	pCi/L	LCL:	UCL:	RPD:
K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Sb-125	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
JN6JM1AC-LCS:											
Cs-137	RDL:15	pCi/L	LCL:70	UCL:130	RPD:20	Cs-137DA	RDL:15	pCi/L	LCL:70	UCL:130	RPD:20
K-40	RDL:6	pCi/L	LCL:70	UCL:130	RPD:20	Ra-226	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20
RA-228	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20	RA-228DA	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20
U-238	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20						

JN2101AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JN6JM1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JN6JM1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

STL RICHLAND

2/19/2007 9:12:39 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

FP Tc-99 Prp/SepRC5065
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

Balance Id:1120482733
Pipet #: _____

AnalyDueDate: 03/23/2007

Sep1 DT/Tm Tech:

Batch: 7039577 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JN210-1-AC J7B070176-1-SAMP 02/06/2007 08:25			125.80g,in	125.80g		60				
		AmtRec: 20ML,2X500ML,4LP		#Containers: 4				Scr:	Alpha: 1.66E-06 uCi/Sa	Beta: 5.59E-07 uCi/Sa
2 JN22E-1-AC J7B070176-2-SAMP 02/06/2007 10:03			125.90g,in	125.90g						
		AmtRec: 20ML,2X500ML,4LP		#Containers: 4				Scr:	Alpha: 2.32E-06 uCi/Sa	Beta: 9.14E-07 uCi/Sa
3 JN28P-1-AC J7B070198-2-SAMP 02/06/2007 09:19			125.60g,in	125.60g						
		AmtRec: 20ML,2X500ML,4LP		#Containers: 4				Scr:	Alpha: 4.87E-06 uCi/Sa	Beta: 1.03E-06 uCi/Sa
4 JN28P-1-AE-X J7B070198-2-DUP 02/06/2007 09:19			126.30g,in	126.30g						
		AmtRec: 20ML,2X500ML,4LP		#Containers: 4				Scr:	Alpha: 4.87E-06 uCi/Sa	Beta: 1.03E-06 uCi/Sa
5 JN29A-1-AC J7B070203-1-SAMP 02/06/2007 10:24			127.00g,in	127.00g						
		AmtRec: 20ML,2X500ML,4LP		#Containers: 4				Scr:	Alpha: 9.72E-07 uCi/Sa	Beta: -6.85E-07 uCi/Sa
6 JN29P-1-AC J7B070203-3-SAMP 02/06/2007 08:54			127.30g,in	127.30g						
		AmtRec: 20ML,2X500ML,4LP		#Containers: 4				Scr:	Alpha: 8.06E-07 uCi/Sa	Beta: 3.83E-07 uCi/Sa
7 JN29P-1-AE-S J7B070203-3-MS 02/06/2007 08:54			125.50g,in	125.50g	TCSG1770 01/24/07,pd 01/10/06,r					
		AmtRec: 20ML,2X500ML,4LP		#Containers: 4				Scr:	Alpha: 8.06E-07 uCi/Sa	Beta: 3.83E-07 uCi/Sa

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STL RICHLAND

2/19/2007 9:12:43 AM

Sample Preparation/Analysis

FP Tc-99 Prp/SepRC5065
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

Balance Id:1120482733
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,BockJ

AnalyDueDate: 03/23/2007

Batch: 7039577 pCi/L
SEQ Batch, Test: None

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JN6JQ-1-AA-B J7B080000-577-BLK 02/06/2007 08:54			201.80g,in	201.80g		60				
	AmtRec:		#Containers: 1					Scr:	Alpha:	Beta:
9 JN6JQ-1-AC-C J7B080000-577-LCS 02/06/2007 08:54			201.10g,in	201.10g	TCSE2072 01/24/07,pd 01/10/06,r					
	AmtRec:		#Containers: 1					Scr:	Alpha:	Beta:
10 JN6JQ-1-AD-BN J7B080000-577-IBLK 02/06/2007 08:54										
	AmtRec:		#Containers: 1					Scr:	Alpha:	Beta:

Comments: pH <2.0 2-19-07

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JN2101AC-SAMP Constituent List:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
JN29P1AE-MS:

JN6JQ1AA-BLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
JN6JQ1AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
JN6JQ1AD-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:

JN2101AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN29P1AE-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

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2/19/2007 9:12:48 AM

Sample Preparation/Analysis

FP Tc-99 Prp/SepRC5065
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

AnalyDueDate: 03/23/2007

Batch: 7039577
SEQ Batch, Test: None

pCi/L

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

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

JN6JQ1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN6JQ1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN6JQ1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ _____ Date: _____

STL RICHLAND

2/22/2007 1:27:39 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AM Tc-99 Prp/SepRC5078
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

Balance Id:1120482733
Pipet #:

AnalyDueDate: 03/23/2007

Sep1 DT/Tm Tech:

Batch: 7039578 WATER pCi/L
SEQ Batch, Test: None All Tests: 7039578 AMS5, 7039579 DHSS,

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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 JN2X5-1-AA J7B070172-1-SAMP 02/06/2007 11:27		126.00g,in AmtRec: 20ML,500ML,3XLP	#Containers: 5				Scr: Alpha: -8.01E-04 uCi/Sa	Beta: 7.18E-04 uCi/Sa
2 JN20A-1-AA J7B070172-2-SAMP 02/06/2007 09:53		125.10g,in AmtRec: 20ML,500ML,3XLP	#Containers: 5				Scr: Alpha: 4.25E-04 uCi/Sa	Beta: 4.31E-04 uCi/Sa
3 JN20Q-1-AA J7B070172-3-SAMP 02/06/2007 10:37		127.40g,in AmtRec: 20ML,500ML,3XLP	#Containers: 5				Scr: Alpha: -2.64E-04 uCi/Sa	Beta: -1.88E-04 uCi/Sa
4 JN202-1-AA J7B070172-4-SAMP 02/06/2007 08:56		125.80g,in AmtRec: 20ML,500ML,3XLP	#Containers: 5				Scr: Alpha: 2.37E-04 uCi/Sa	Beta: -3.93E-04 uCi/Sa
5 JN21N-1-AA J7B070172-5-SAMP 02/06/2007 08:56		127.40g,in AmtRec: 20ML,500ML,3XLP	#Containers: 5				Scr: Alpha: 3.34E-04 uCi/Sa	Beta: -3.11E-04 uCi/Sa
6 JN22J-1-AD J7B070176-3-SAMP 02/06/2007 10:42		127.20g,in AmtRec: 20ML,500ML,4XLP,4LP	#Containers: 7				Scr: Alpha: 2.36E-04 uCi/Sa	Beta: -5.59E-05 uCi/Sa
7 JN22W-1-AC J7B070176-4-SAMP 02/06/2007 09:16		124.80g,in AmtRec: 20ML,500ML,3XLP,4LP	#Containers: 6				Scr: Alpha: 1.54E-03 uCi/Sa	Beta: 9.31E-04 uCi/Sa

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
ICOC v4.8.26

STL RICHLAND

2/22/2007 1:27:40 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AM Tc-99 Prp/SepRC5078
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

Balance Id:1120482733
Pipet #: _____

AnalyDueDate: 03/23/2007

Batch: 7039578 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,BockJ

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 JN28R-1-AA J7B070198-3-SAMP 02/06/2007 11:01		127.50g,in AmtRec: 20ML,3XLP	#Containers: 4			Scr:	Alpha: -1.29E-04 uCi/Sa	Beta: -1.97E-05 uCi/Sa
9 JN29J-1-AD J7B070203-2-SAMP 02/06/2007 09:39		127.00g,in AmtRec: 20ML,500ML,4XLP,4LP	#Containers: 7			Scr:	Alpha: -4.26E-05 uCi/Sa	Beta: -1.06E-03 uCi/Sa
10 JN29J-1-AG-S J7B070203-2-MS 02/06/2007 09:39		125.40g,in AmtRec: 20ML,500ML,4XLP,4LP	TCSG1772 01/24/07,pd 01/10/06,r #Containers: 7			Scr:	Alpha: -4.26E-05 uCi/Sa	Beta: -1.06E-03 uCi/Sa
11 JN29X-1-AA J7B070203-4-SAMP 02/06/2007 08:20		125.20g,in AmtRec: 20ML,3XLP	#Containers: 4			Scr:	Alpha: -4.62E-05 uCi/Sa	Beta: 5.13E-05 uCi/Sa
12 JN6JR-1-AA-B J7B080000-578-BLK 02/06/2007 09:39		125.50g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
13 JN6JR-1-AC-C J7B080000-578-LCS 02/06/2007 09:39		125.60g,in AmtRec:	TCSE2074 01/24/07,pd 01/10/06,r #Containers: 1			Scr:	Alpha:	Beta:
14 JN6JR-1-AD-BN J7B080000-578-IBLK 02/06/2007 09:39		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

STL RICHLAND

2/22/2007 1:27:42 PM

Sample Preparation/Analysis

AM Tc-99 Prp/SepRC5078
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

AnalyDueDate: 03/23/2007

Batch: 7039578
SEQ Batch, Test: None

pCi/L

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:
15 JN6JR-1-AE-BN J7B080000-578-IBLK 02/06/2007 09:39	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments: JN22J-SAMP "Comments. Aliquot reduced due to weight screen activity. JB 02/22/07"
PH <2.0 JB 2-19-07

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JN2X51AA-SAMP Constituent List:
Tc-99 RDL:1.50E+01 pCi/L LCL:70 UCL:130 RPD:20
JN29J1AG-MS:

JN6JR1AA-BLK:
Tc-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:
JN6JR1AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
JN6JR1AD-IBLK:
Tc-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:
JN6JR1AE-IBLK:
Tc-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:

JN2X51AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN29J1AG-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN6JR1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN6JR1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN6JR1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN6JR1AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

STL RICHLAND

2/22/2007 1:27:42 PM

Sample Preparation/Analysis

AM Tc-99 Prp/SepRC5078
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

AnalyDueDate: 03/23/2007

Batch: 7039578
SEQ Batch, Test: None

pCi/L

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:

Approved By _____ Date: _____

STL RICHLAND

2/20/2007 11:48:34 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

DH UNat_Laser PrpRC5015
SS Total Uranium by KPA
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 03/22/2007

Sep1 DT/Tm Tech:

Batch: 7039579 WATER ug/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

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 JN0H4-1-AA J7B060116-1-SAMP 02/05/2007 12:08		25.30g,in AmtRec: 20ML,500MLP	#Containers: 2				Scr: Alpha: 5.51E-05 uCi/Sa	Beta: -3.26E-06 uCi/Sa
2 JN0H4-1-AC-X J7B060116-1-DUP 02/05/2007 12:08		25.30g,in AmtRec: 20ML,500MLP	#Containers: 2				Scr: Alpha: 5.51E-05 uCi/Sa	Beta: -3.26E-06 uCi/Sa
3 JN0H6-1-AA J7B060116-2-SAMP 02/05/2007 13:32		25.30g,in AmtRec: 20ML,500MLP	#Containers: 2				Scr: Alpha: -1.13E-06 uCi/Sa	Beta: 1.44E-06 uCi/Sa
4 JN0H7-1-AA J7B060116-3-SAMP 02/05/2007 11:17		25.50g,in AmtRec: 20ML,500MLP	#Containers: 2				Scr: Alpha: 1.24E-05 uCi/Sa	Beta: -4.45E-05 uCi/Sa
5 JN0H9-1-AA J7B060116-4-SAMP 02/05/2007 10:34		25.00g,in AmtRec: 20ML,500MLP	#Containers: 2				Scr: Alpha: -6.12E-05 uCi/Sa	Beta: 7.35E-05 uCi/Sa
6 JN2X5-1-AC J7B070172-1-SAMP 02/06/2007 11:27		27.20g,in AmtRec: 20ML,500ML,3XLP	#Containers: 5				Scr: Alpha: -8.01E-04 uCi/Sa	Beta: 7.18E-04 uCi/Sa
7 JN20A-1-AC J7B070172-2-SAMP 02/06/2007 09:53		25.10g,in AmtRec: 20ML,500ML,3XLP	#Containers: 5				Scr: Alpha: 4.25E-04 uCi/Sa	Beta: 4.31E-04 uCi/Sa

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 Prep_SamplePrep v4.8.26

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STL RICHLAND

2/20/2007 11:48:37 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

DH UNat_Laser PrpRC5015
SS Total Uranium by KPA
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 03/22/2007

Sep1 DT/Tm Tech:

Batch: 7039579 WATER ug/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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 JN20Q-1-AC J7B070172-3-SAMP 02/06/2007 10:37		25.20g,in AmtRec: 20ML,500ML,3XLP	#Containers: 5				Scr:	Alpha: -2.64E-04 uCi/Sa Beta: -1.88E-04 uCi/Sa
9 JN202-1-AC J7B070172-4-SAMP 02/06/2007 08:56		26.10g,in AmtRec: 20ML,500ML,3XLP	#Containers: 5				Scr:	Alpha: 2.37E-04 uCi/Sa Beta: -3.93E-04 uCi/Sa
10 JN21N-1-AC J7B070172-5-SAMP 02/06/2007 08:56		26.50g,in AmtRec: 20ML,500ML,3XLP	#Containers: 5				Scr:	Alpha: 3.34E-04 uCi/Sa Beta: -3.11E-04 uCi/Sa
11 JN21N-1-AD-S J7B070172-5-MS 02/06/2007 08:56		26.40g,in AmtRec: 20ML,500ML,3XLP	UNSF3605 02/05/07,pd 01/23/07,r #Containers: 5				Scr:	Alpha: 3.34E-04 uCi/Sa Beta: -3.11E-04 uCi/Sa
12 JN210-1-AD J7B070176-1-SAMP 02/06/2007 08:25		26.80g,in AmtRec: 20ML,2X500ML,4LP	#Containers: 4				Scr:	Alpha: 1.66E-06 uCi/Sa Beta: 5.59E-07 uCi/Sa
13 JN22E-1-AD J7B070176-2-SAMP 02/06/2007 10:03		25.80g,in AmtRec: 20ML,2X500ML,4LP	#Containers: 4				Scr:	Alpha: 2.32E-06 uCi/Sa Beta: 9.14E-07 uCi/Sa
14 JN22J-1-AE J7B070176-3-SAMP 02/06/2007 10:42		25.00g,in AmtRec: 20ML,500ML,4XLP,4LP	#Containers: 7				Scr:	Alpha: 2.36E-04 uCi/Sa Beta: -5.59E-05 uCi/Sa

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STL RICHLAND

2/20/2007 11:48:39 AM

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 03/22/2007

Sample Preparation/Analysis

DH UNat_Laser PrpRC5015
SS Total Uranium by KPA
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Batch: 7039579 WATER ug/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

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:
15 JN22W-1-AD J7B070176-4-SAMP 02/06/2007 09:16		25.00g,in AmtRec: 20ML,500ML,3XLP,4LP	#Containers: 6			Scr:	Alpha: 1.54E-03 uCi/Sa	Beta: 9.31E-04 uCi/Sa
16 JN28K-1-AC J7B070198-1-SAMP 02/06/2007 10:10		27.90g,in AmtRec: 20ML,500ML,4LP	#Containers: 3			Scr:	Alpha: 1.84E-05 uCi/Sa	Beta: -2.95E-05 uCi/Sa
17 JN28P-1-AD J7B070198-2-SAMP 02/06/2007 09:19		27.20g,in AmtRec: 20ML,2X500ML,4LP	#Containers: 4			Scr:	Alpha: 4.87E-06 uCi/Sa	Beta: 1.03E-06 uCi/Sa
18 JN29A-1-AD J7B070203-1-SAMP 02/06/2007 10:24		25.10g,in AmtRec: 20ML,2X500ML,4LP	#Containers: 4			Scr:	Alpha: 9.72E-07 uCi/Sa	Beta: -6.85E-07 uCi/Sa
19 JN29J-1-AE J7B070203-2-SAMP 02/06/2007 09:39		25.30g,in AmtRec: 20ML,500ML,4XLP,4LP	#Containers: 7			Scr:	Alpha: -4.26E-05 uCi/Sa	Beta: -1.06E-03 uCi/Sa
20 JN29P-1-AD J7B070203-3-SAMP 02/06/2007 08:54		26.50g,in AmtRec: 20ML,2X500ML,4LP	#Containers: 4			Scr:	Alpha: 8.06E-07 uCi/Sa	Beta: 3.83E-07 uCi/Sa
21 JN6JT-1-AA-B J7B080000-579-BLK 02/06/2007 08:56		25.60g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

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STL RICHLAND

2/20/2007 11:48:41 AM

Sample Preparation/Analysis

DH UNat_Laser PrpRC5015
SS Total Uranium by KPA
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 03/22/2007

Sep1 DT/Tm Tech:

Batch: 7039579 ug/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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:
22 JN6JT-1-AC-C J7B080000-579-LCS 02/06/2007 08:56		25.60g,in AmtRec:	UNSF3606 02/05/07,pd 01/23/07,r #Containers: 1			Scr:	Alpha:	Beta:
23 JN6JT-1-AD-C J7B080000-579-LCS 02/06/2007 08:56		25.20g,in AmtRec:	UNSC1496 01/23/07,pd 04/28/06,r #Containers: 1			Scr:	Alpha:	Beta:

Comments: pH < 2.0 JB 2-20-07

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JN0H41AA-SAMP Constituent List:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
JN21N1AD-MS:

JN6JT1AA-BLK:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
JN6JT1AC-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20
JN6JT1AD-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20

JN0H41AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN21N1AD-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN6JT1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN6JT1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JN6JT1AD-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

3/27/2007 11:13:29 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/27/2006, 4/1/2007, Batch: '7082497', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7082497						
AC		CalcC	BockJ	3/26/2007 9:03:47		
SC			antonsonl	IsBatched	3/23/2007 4:38:25 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	3/26/2007 9:03:47 AM	RICH-RC-5017 Revision 5
SC			AshworthA	InPrep2	3/26/2007 11:09:28 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	Prep2C	3/26/2007 7:02:57 PM	RICH-RC-5014 REVISION 6
SC			DAWKINSO	InCnt1	3/26/2007 7:38:39 PM	RICH-RD-0003 REVISION 4
SC			BlackCL	CalcC	3/27/2007 10:25:42 AM	RICH-RD-0003 REVISION 4
AC			AshworthA	3/26/2007 11:09:28		
AC			AshworthA	3/26/2007 7:02:57 PM		
AC			DAWKINSO	3/26/2007 7:38:39 PM		
AC			BlackCL	3/27/2007 10:25:42		

AC: Accepting Entry; SC: Status Change

2/28/2007 11:04:26 AM

ICOC Fraction Transfer/Status Report

ByDate: 2/28/2006, 3/5/2007, Batch: '7039575', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7039575						
AC		CalcC	BockJ	2/20/2007 1:33:20 PM		
SC			andersonp	IsBatched	2/9/2007 7:47:34 AM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	2/20/2007 1:33:20 PM	RICH-RC-5016 Revision 6
SC			BockJ	Prep1C	2/20/2007 2:23:50 PM	RICH-RC-5017 REVISION 5
SC			AshworthA	InPrep2	2/26/2007 7:11:03 AM	RICH-RC-5017 REVISION 4
SC			AshworthA	Prep2C	2/27/2007 11:19:12 AM	RICH-RC-5017 REVISION 4
SC			BlackCL	InCnt1	2/27/2007 11:46:17 AM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	CalcC	2/27/2007 7:42:57 PM	RICH-RD-0007 REVISION 5
AC			BockJ	2/20/2007 2:23:50 PM		
AC			AshworthA	2/26/2007 7:11:03		
AC			AshworthA	2/27/2007 11:19:12		
AC			BlackCL	2/27/2007 11:46:17		
AC			DAWKINSO	2/27/2007 7:42:57 PM		

AC: Accepting Entry, SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt:6

ICOCFractions v4.8.26

2/21/2007 2:09:53 PM

ICOC Fraction Transfer/Status Report

ByDate: 2/21/2006, 2/26/2007, Batch: '7039577', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7039577						
AC		CalcC	BockJ	2/19/2007 9:01:21		
SC			andersonp	IsBatched	2/9/2007 7:47:34 AM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	2/19/2007 9:01:21 AM	RICH-RC-5014 Revision 6
SC			BockJ	Prep1C	2/19/2007 9:12:38 AM	RICH-RC-5016 REVISION 6
SC			FABREM	Sep1C	2/19/2007 7:16:11 PM	RICH-RC-5065 REVISION 5
SC			DAWKINSO	InCnt1	2/19/2007 7:27:52 PM	RICH-RD-0001 REVISION 3
SC			BlackCL	CalcC	2/21/2007 6:15:49 AM	RICH-RD-0001 REVISION 3
AC			BockJ	2/19/2007 9:12:38		
AC			FABREM	2/19/2007 7:16:11 PM		
AC			DAWKINSO	2/19/2007 7:27:52 PM		
AC			BlackCL	2/21/2007 6:15:49		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.26

2/23/2007 2:36:39 PM

ICOC Fraction Transfer/Status Report

ByDate: 2/23/2006, 2/28/2007, Batch: '7039578', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7039578						
AC		Rev1C	BockJ	2/19/2007 9:33:49		
SC			andersonp	IsBatched	2/9/2007 7:47:34 AM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	2/19/2007 9:33:49 AM	RICH-RC-5014 Revision 6
SC			BockJ	Prep1C	2/19/2007 9:49:10 AM	RICH-RC-5016 REVISION 6
SC			FABREM	Sep1C	2/22/2007 2:55:03 PM	RICH-RC-5078 REVISION 3
SC			StringerR	InCnt1	2/22/2007 2:57:56 PM	RICH-RD-0001 REVISION 3
SC			StringerR	CalcC	2/23/2007 2:14:22 PM	RICH-RD-0001 REVISION 3
SC			WhelandS	Rev1C	2/23/2007 2:34:26 PM	RICH-RC-0002 REVISION 7
AC			BockJ	2/19/2007 9:49:10		
AC			FABREM	2/22/2007 2:55:03 PM		
AC			StringerR	2/22/2007 2:57:56 PM		
AC			StringerR	2/23/2007 2:14:22 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.26

3/21/2007 2:29:11 PM

ICOC Fraction Transfer/Status Report

ByDate: 3/21/2006, 3/26/2007, Batch: '7039579', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7039579						
AC		Cnt1C	BockJ	2/20/2007 11:24:08		
SC			andersonp	IsBatched	2/9/2007 7:47:34 AM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	2/20/2007 11:24:08 AM	RICH-RC-5016 Revision 6
SC			BockJ	Prep1C	2/20/2007 11:48:43 AM	RICH-RC-5015 REVISION 4
SC			AshworthA	InPrep2	2/27/2007 8:20:42 AM	RICH-RC-5015 REVISION 4
SC			AshworthA	Prep2C	2/28/2007 12:33:22 PM	RICH-RC-5015 REVISION 4
SC			AntonsonL	Prep2C	2/28/2007 12:33:35 PM	RICH-RC-5015 REVISION 4
SC			NelsonT	Cnt1C	3/20/2007 1:41:38 PM	RICH-RC-5058 REV 7
AC			BockJ	2/20/2007 11:48:43		
AC			AshworthA	2/27/2007 8:20:42		
AC			AshworthA	2/28/2007 12:33:22		
AC			AntonsonL	2/28/2007 12:33:35		
AC			NelsonT	3/20/2007 1:41:38 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.26