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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 138 *Pages*

Report Nbr: 35142

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05145	W07-003	B1MKR5	J7C220114-1	JRHM71AA	9JRHM710	7088450
		B1MKR8	J7C220114-2	JRHNJ1AA	9JRHNJ10	7088450
		B1MKK8	J7C220124-1	JRHP71AA	9JRHP710	7088449
		B1MKK8	J7C220124-1	JRHP71AC	9JRHP710	7088451
		B1MKK8	J7C220124-1	JRHP71AD	9JRHP710	7088446
		B1MKK8	J7C220124-1	JRHP71AE	9JRHP710	7088450
		B1MJT6	J7C220124-2	JRHRA1AA	9JRHRA10	7088446
		B1MKT1	J7C230230-1	JRMJ91AA	9JRMJ910	7088450
		B1MKT4	J7C230230-2	JRMKK1AA	9JRMKK10	7088450
		B1MKV0	J7C230230-3	JRMKN1AA	9JRMKN10	7088450
		B1MKV3	J7C230230-4	JRMKW1AA	9JRMKW10	7088450
		B1MKL3	J7C230239-1	JRML71AA	9JRML710	7088449
		B1MKL3	J7C230239-1	JRML71AC	9JRML710	7088451
		B1MKL3	J7C230239-1	JRML71AD	9JRML710	7088446
		B1MKL3	J7C230239-1	JRML71AE	9JRML710	7088450

Rec 4/27/07

Comments:

Report Nbr: 35142

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05145	W07-003	B1MKM3	J7C230239-2	JRMMK1AA	9JRMMK10	7088449
		B1MKM3	J7C230239-2	JRMMK1AC	9JRMMK10	7088451
		B1MKM3	J7C230239-2	JRMMK1AD	9JRMMK10	7088446
		B1MKM3	J7C230239-2	JRMMK1AE	9JRMMK10	7088450
	I07-031	B1MDC2	J7C260175-1	JRQ481AA	9JRQ4810	7088449
		B1MDC2	J7C260175-1	JRQ481AC	9JRQ4810	7088453
		B1MDD9	J7C260181-1	JRQ5N1AA	9JRQ5N10	7088449
		B1MDD9	J7C260181-1	JRQ5N1AC	9JRQ5N10	7088454
		B1MDD9	J7C260181-1	JRQ5N1AD	9JRQ5N10	7088453
	W07-002	B1M9B6	J7C260194-1	JRQ901AA	9JRQ9010	7088447
		B1M9B6	J7C260194-1	JRQ901AC	9JRQ9010	7088449
		B1M9B6	J7C260194-1	JRQ901AD	9JRQ9010	7088451
		B1M9B6	J7C260194-1	JRQ901AE	9JRQ9010	7088446
	I07-032	B1MDJ1	J7C260195-1	JRQ921AA	9JRQ9210	7088452
		B1MDJ1	J7C260195-1	JRQ921AC	9JRQ9210	7088453
	S07-003	B1MDY7	J7C260197-1	JRQ951AA	9JRQ9510	7088453
	W07-003	B1MKN2	J7C260198-1	JRQ991AC	9JRQ9910	7088447
		B1MKN2	J7C260198-1	JRQ991AD	9JRQ9910	7088449
		B1MKN2	J7C260198-1	JRQ991AE	9JRQ9910	7088446
		B1MKN2	J7C260198-1	JRQ991AF	9JRQ9910	7088450
		B1MKN2	J7C260198-1	JRQ992AA	9JRQ9920	7095245
		B1MKN3	J7C260198-2	JRRAD1AA	9JRRAD10	7088455
		B1MKN3	J7C260198-2	JRRAD1AC	9JRRAD10	7088447
		B1MKN3	J7C260198-2	JRRAD1AD	9JRRAD10	7088449
		B1MKN3	J7C260198-2	JRRAD1AE	9JRRAD10	7088446
		B1MKN3	J7C260198-2	JRRAD1AF	9JRRAD10	7088450

Comments:

Report Nbr: 35142

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05145	W07-003	B1MKP2	J7C260198-3	JRRAE1AA	9JRRAE10	7088455
		B1MKP2	J7C260198-3	JRRAE1AC	9JRRAE10	7088447
		B1MKP2	J7C260198-3	JRRAE1AD	9JRRAE10	7088449
		B1MKP2	J7C260198-3	JRRAE1AE	9JRRAE10	7088446
		B1MKP2	J7C260198-3	JRRAE1AF	9JRRAE10	7088450
		B1MKR0	J7C260198-4	JRRAF1AA	9JRRAF10	7088446
	I07-032	B1MDL2	J7C260199-1	JRRAK1AA	9JRRAK10	7088452
		B1MDL2	J7C260199-1	JRRAK1AC	9JRRAK10	7088453

Comments:

SEVERN TRENT STL

STL Richland
2800 George Washington Way
Richland, WA 99354

Tel: 509 375 3131 Fax: 509 375 5590
www.stl-inc.com

Certificate of Analysis

Pacific Northwest National Laboratories
Sigma V Building
Richland, WA 99352

April 27, 2007

Attention: Dot Stewart

SAF Number	:	W07-003, I07-031, W07-002, I07-032, S07-003
Date SDG Closed	:	March 26, 2007
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05145
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between March 21, 2007 and March 26, 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
B1MKK8	JRHP7	WATER	3/21/07
B1MJT6	JRHRA	WATER	3/21/07
B1MKR5	JRHM7	WATER	3/21/07
B1MKR8	JRHNJ	WATER	3/21/07
B1MKT1	JRMJ9	WATER	3/22/07
B1MKT4	JRMKK	WATER	3/22/07
B1MKV0	JRMKN	WATER	3/22/07
B1MKV3	JRMKW	WATER	3/22/07
B1MKL3	JRML7	WATER	3/22/07
B1MKM3	JRMMK	WATER	3/22/07
B1MDC2	JRQ48	WATER	3/23/07
B1MDD9	JRQ5N	WATER	3/23/07
B1M9B6	JRQ90	WATER	3/23/07

B1MDJ1	JRQ92	WATER	3/23/07
B1MDY7	JRQ95	WATER	3/23/07
B1MKN2	JRQ99	WATER	3/23/07
B1MKN3	JRRAD	WATER	3/23/07
B1MKP2	JRRAE	WATER	3/23/07
B1MKR0	JRRAF	WATER	3/23/07
B1MDL2	JRRAK	WATER	3/26/07

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 Alpha by method RICH-RC-5014
Gross Beta by method RICH-RC-5014
Strontium-90 by method RICH-RC-5006
Gamma Spectroscopy
Gamma Spec (LL) by method RICH-RC-5017
Gamma Spec by method RICH-RC-5017
Iodine-129 (LL) by method RICH-RC-5025
Liquid Scintillation Counting
Technetium-99 by TEVA method RICH-RC-5065
Tritium by method RICH-RC-5007
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 Alpha by method RICH-RC-5014:
The LCS, batch blank, samples and sample duplicate (B1M9B6) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:
Samples B1MDC2 and B1MDC2 DUP were analyzed with reduced volumes based on an elevated screen results. The LCS, batch blank, samples and sample duplicate (B1MDC2) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006
The LCS, batch blank, samples and sample duplicate (B1MDY7) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec (LL) by method RICH-RC-5017:
The LCS, batch blank, samples and sample duplicate (B1MKL3) results are within contractual requirements.

Gamma Spec by method RICH-RC-5017:
The LCS, batch blank, samples and sample duplicate (B1MDD9) results are within contractual requirements.

I129 (LL) by method RICH-RC-5025:
The LCS, batch blank, samples and sample duplicate (B1MDL2) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by TEVA method RICH-RC-5065:
The LCS, batch blank, samples, sample duplicate (B1MKP2), and sample matrix spike (B1MKR0) results are within contractual requirements.

Tritium by method RICH-RC-5007:
Sample B1MKN2 and B1MKN2 DUP were not within contractual limits. The sample and it duplicate was recounted. Data is acceptable. Except as note the LCS, batch blank, samples and sample duplicate (B1MKN2) results are within contractual requirements.

Total Uranium

Total Uranium by method RICH-RC-5058:
The LCS, batch blank, samples, sample duplicate (B1MKT1), and sample matrix spike (B1MKT4) results are within contractual requirements.

Pacific Northwest National Laboratories
April 27, 2007

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:

Sandra Segura

Sherryl A. Adam
for 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.

4/27/2007 9:52:24 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35142 File Name: h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.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:
9JRHM710	B1MKR5		MW6-SBB-A1	W07-003	W05145					03/21/2007 11:39

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7088450	Uranium	7440-61-1	4.94E+01	ug/L	5.8E+00	5.8E+00		8.25E-02		UTOT_KPA	2.54E-02	ML	04/26/2007 14:30	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:
9JRHNJ10	B1MKR8		MW6-SBB-A1	W07-003	W05145					03/21/2007 10:16

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7088450	Uranium	7440-61-1	4.52E-03	ug/L	4.9E-04	4.9E-04	U	8.28E-02		UTOT_KPA	2.53E-02	ML	04/26/2007 14:32	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:
9JRHP710	B1MKK8		MW6-SBB-A1	W07-003	W05145					03/21/2007 11:36

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7088449	BETA	12587-47-2	1.20E+02	pCi/L	5.3E+00	1.6E+01		3.03E+00	100.0	9310_ALPHABETA	1.986E-01	L	04/06/2007 12:43	I
7088451	BE-7	13966-02-4	7.75E+00	pCi/L	1.5E+01	1.5E+01	U	2.85E+01		GAMMALL_GS	2.0001E+00	L	04/09/2007 17:36	I
7088451	CO-60	10198-40-0	7.90E-01	pCi/L	2.1E+00	2.1E+00	U	4.11E+00		GAMMALL_GS	2.0001E+00	L	04/09/2007 17:36	I
7088451	CS-134	13967-70-9	-2.13E+00	pCi/L	1.7E+00	1.7E+00	U	2.53E+00		GAMMALL_GS	2.0001E+00	L	04/09/2007 17:36	I
7088451	CS-137	10045-97-3	7.47E-01	pCi/L	1.7E+00	1.7E+00	U	3.26E+00		GAMMALL_GS	2.0001E+00	L	04/09/2007 17:36	I
7088451	EU-152	14683-23-9	-2.28E+00	pCi/L	4.1E+00	4.1E+00	U	6.87E+00		GAMMALL_GS	2.0001E+00	L	04/09/2007 17:36	I
7088451	EU-154	15585-10-1	-2.77E-01	pCi/L	4.8E+00	4.8E+00	U	9.20E+00		GAMMALL_GS	2.0001E+00	L	04/09/2007 17:36	I
7088451	EU-155	14391-16-3	-3.29E-01	pCi/L	3.3E+00	3.3E+00	U	5.88E+00		GAMMALL_GS	2.0001E+00	L	04/09/2007 17:36	I
7088451	K-40	13966-00-2	-1.03E+01	pCi/L	2.5E+01	2.5E+01	U	5.15E+01		GAMMALL_GS	2.0001E+00	L	04/09/2007 17:36	I
7088451	RU-106	13967-48-1	2.77E+00	pCi/L	1.4E+01	1.4E+01	U	2.71E+01		GAMMALL_GS	2.0001E+00	L	04/09/2007 17:36	I
7088451	SB-125	14234-35-6	-6.25E-01	pCi/L	4.1E+00	4.1E+00	U	7.35E+00		GAMMALL_GS	2.0001E+00	L	04/09/2007 17:36	I
7088446	TC-99	14133-76-7	4.43E+02	pCi/L	1.2E+01	3.6E+01		9.84E+00	100.0	TC99_ETVDSK_LS	1.248E-01	L	04/03/2007 16:39	I
7088450	Uranium	7440-61-1	2.03E+00	ug/L	2.1E-01	2.1E-01		8.35E-02		UTOT_KPA	2.51E-02	ML	04/26/2007 14:34	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:
9JRHRA10	B1MJT6		MW6-SBB-A1	W07-003	W05145					03/21/2007 10:37

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7088446	TC-99	14133-76-7	6.39E+01	pCi/L	5.9E+00	1.0E+01		9.68E+00	100.0	TC99_ETVDSK_LS	1.265E-01	L	04/03/2007 16:39	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:

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.

1

4/27/2007 9:52:24 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 35142 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.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:
9JRMJ910	B1MKT1		MW6-SBB-A1	W07-003	W05145					03/22/2007 14:17

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7088450	Uranium	7440-61-1	7.00E+01	ug/L	8.2E+00	8.2E+00		8.32E-02		UTOT_KPA	2.52E-02	ML	04/26/2007 14:36	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:
9JRMKK10	B1MKT4		MW6-SBB-A1	W07-003	W05145					03/22/2007 13:46

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7088450	Uranium	7440-61-1	1.18E+01	ug/L	1.4E+00	1.4E+00		8.38E-02		UTOT_KPA	2.50E-02	ML	04/26/2007 14:39	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:
9JRMKN10	B1MKV0		MW6-SBB-A1	W07-003	W05145					03/22/2007 12:36

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7088450	Uranium	7440-61-1	7.91E-03	ug/L	8.6E-04	8.6E-04	U	8.22E-02		UTOT_KPA	2.55E-02	ML	04/26/2007 14:43	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:
9JRMKW10	B1MKV3		MW6-SBB-A1	W07-003	W05145					03/22/2007 10:57

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7088450	Uranium	7440-61-1	6.29E+00	ug/L	6.5E-01	6.5E-01		8.12E-02		UTOT_KPA	2.58E-02	ML	04/26/2007 14:44	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:
9JRML710	B1MKL3		MW6-SBB-A1	W07-003	W05145					03/22/2007 13:33

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7088449	BETA	12587-47-2	2.77E+01	pCi/L	2.8E+00	4.5E+00		2.93E+00	100.0	9310_ALPHABETA	1.984E-01	L	04/06/2007 12:43	I
7088451	BE-7	13966-02-4	-2.70E+00	pCi/L	2.1E+01	2.1E+01	U	3.71E+01		GAMMALL_GS	1.9708E+00	L	04/09/2007 17:37	I
7088451	CO-60	10198-40-0	2.30E+00	pCi/L	2.7E+00	2.7E+00	U	5.51E+00		GAMMALL_GS	1.9708E+00	L	04/09/2007 17:37	I
7088451	CS-134	13967-70-9	2.43E+00	pCi/L	2.7E+00	2.7E+00	U	5.29E+00		GAMMALL_GS	1.9708E+00	L	04/09/2007 17:37	I
7088451	CS-137	10045-97-3	6.00E-02	pCi/L	2.2E+00	2.2E+00	U	3.85E+00		GAMMALL_GS	1.9708E+00	L	04/09/2007 17:37	I
7088451	EU-152	14683-23-9	-1.37E+00	pCi/L	5.6E+00	5.6E+00	U	9.52E+00		GAMMALL_GS	1.9708E+00	L	04/09/2007 17:37	I
7088451	EU-154	15585-10-1	-8.62E-01	pCi/L	7.0E+00	7.0E+00	U	1.27E+01		GAMMALL_GS	1.9708E+00	L	04/09/2007 17:37	I
7088451	EU-155	14391-16-3	-1.25E+00	pCi/L	5.5E+00	5.5E+00	U	9.45E+00		GAMMALL_GS	1.9708E+00	L	04/09/2007 17:37	I
7088451	K-40	13966-00-2	-9.26E+01	pCi/L	6.6E+01	6.6E+01	U	1.41E+02		GAMMALL_GS	1.9708E+00	L	04/09/2007 17:37	I
7088451	RU-106	13967-48-1	-9.85E+00	pCi/L	2.1E+01	2.1E+01	U	3.47E+01		GAMMALL_GS	1.9708E+00	L	04/09/2007 17:37	I
7088451	SB-125	14234-35-6	1.17E+00	pCi/L	5.8E+00	5.8E+00	U	1.05E+01		GAMMALL_GS	1.9708E+00	L	04/09/2007 17:37	I
7088446	TC-99	14133-76-7	7.03E+01	pCi/L	6.1E+00	1.0E+01		9.81E+00	100.0	TC99_ETVDSK_LS	1.249E-01	L	04/03/2007 16:39	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.

7088450	Uranium	7440-61-1	3.26E+00	ug/L	3.3E-01	3.3E-01		8.19E-02		UTOT_KPA	2.56E-02	ML	04/26/2007 14:46	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:
9JRMMK10	B1MKM3		MW6-SBB-A1	W07-003	W05145					03/22/2007 12:25

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7088449	BETA	12587-47-2	7.27E+02	pCi/L	1.3E+01	9.3E+01		2.96E+00	100.0	9310_ALPHABETA	1.991E-01	L	04/06/2007 12:43	I
7088451	BE-7	13966-02-4	1.02E+01	pCi/L	2.2E+01	2.2E+01	U	4.14E+01		GAMMALL_GS	1.9987E+00	L	04/09/2007 17:38	I
7088451	CO-60	10198-40-0	8.65E-01	pCi/L	3.1E+00	3.1E+00	U	6.04E+00		GAMMALL_GS	1.9987E+00	L	04/09/2007 17:38	I
7088451	CS-134	13967-70-9	-1.26E-01	pCi/L	2.7E+00	2.7E+00	U	4.95E+00		GAMMALL_GS	1.9987E+00	L	04/09/2007 17:38	I
7088451	CS-137	10045-97-3	0.00E+00	pCi/L	0.0E+00	0.0E+00	U	4.38E+00		GAMMALL_GS	1.9987E+00	L	04/09/2007 17:38	I
7088451	EU-152	14683-23-9	-1.99E+00	pCi/L	5.3E+00	5.3E+00	U	9.25E+00		GAMMALL_GS	1.9987E+00	L	04/09/2007 17:38	I
7088451	EU-154	15585-10-1	-6.33E+00	pCi/L	7.1E+00	7.1E+00	U	1.12E+01		GAMMALL_GS	1.9987E+00	L	04/09/2007 17:38	I
7088451	EU-155	14391-16-3	1.08E+00	pCi/L	4.0E+00	4.0E+00	U	7.32E+00		GAMMALL_GS	1.9987E+00	L	04/09/2007 17:38	I
7088451	K-40	13966-00-2	-2.53E+01	pCi/L	5.1E+01	5.1E+01	U	1.11E+02		GAMMALL_GS	1.9987E+00	L	04/09/2007 17:38	I
7088451	RU-106	13967-48-1	5.99E+00	pCi/L	2.4E+01	2.4E+01	U	4.42E+01		GAMMALL_GS	1.9987E+00	L	04/09/2007 17:38	I
7088451	SB-125	14234-35-6	1.60E+00	pCi/L	5.6E+00	5.6E+00	U	1.03E+01		GAMMALL_GS	1.9987E+00	L	04/09/2007 17:38	I
7088446	TC-99	14133-76-7	2.96E+03	pCi/L	3.0E+01	2.1E+02		9.88E+00	100.0	TC99_ETVDSK_LS	1.245E-01	L	04/03/2007 16:39	I
7088450	Uranium	7440-61-1	2.93E+00	ug/L	3.0E-01	3.0E-01		8.38E-02		UTOT_KPA	2.50E-02	ML	04/26/2007 14:49	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:
9JRQ4810	B1MDC2		MW6-SBB-A1	I07-031	W05145					03/23/2007 12:20

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7088449	BETA	12587-47-2	2.19E+03	pCi/L	2.6E+01	2.8E+02		3.63E+00	100.0	9310_ALPHABETA	1.405E-01	L	04/06/2007 12:43	I
7088453	SR-90	10098-97-2	1.15E+03	pCi/L	7.0E+00	1.6E+02		5.13E-01	74.9	SRISO_SEP_PRE	1.0058E+00	L	04/18/2007 07:05	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:
9JRQ5N10	B1MDD9		MW6-SBB-A1	I07-031	W05145					03/23/2007 10:01

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7088449	BETA	12587-47-2	9.01E+00	pCi/L	1.9E+00	2.2E+00		2.80E+00	100.0	9310_ALPHABETA	2.007E-01	L	04/06/2007 12:43	I
7088454	BE-7	13966-02-4	-3.94E+00	pCi/L	1.3E+01	1.3E+01	U	2.27E+01		GAMMA_GS	2.5034E+00	L	04/16/2007 13:43	I
7088454	CO-60	10198-40-0	5.59E-01	pCi/L	1.8E+00	1.8E+00	U	3.53E+00		GAMMA_GS	2.5034E+00	L	04/16/2007 13:43	I
7088454	CS-134	13967-70-9	3.91E-01	pCi/L	1.2E+00	1.2E+00	U	2.47E+00		GAMMA_GS	2.5034E+00	L	04/16/2007 13:43	I
7088454	CS-137	10045-97-3	-3.00E-01	pCi/L	1.3E+00	1.3E+00	U	2.30E+00		GAMMA_GS	2.5034E+00	L	04/16/2007 13:43	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.

7088454	EU-152	14683-23-9	4.56E-01	pCi/L	3.4E+00	3.4E+00	U	6.34E+00		GAMMA_GS	2.5034E+00	L	04/16/2007	13:43	I
7088454	EU-154	15585-10-1	-6.39E-01	pCi/L	4.1E+00	4.1E+00	U	7.50E+00		GAMMA_GS	2.5034E+00	L	04/16/2007	13:43	I
7088454	EU-155	14391-16-3	-1.93E+00	pCi/L	3.0E+00	3.0E+00	U	4.91E+00		GAMMA_GS	2.5034E+00	L	04/16/2007	13:43	I
7088454	K-40	13966-00-2	1.04E+01	pCi/L	2.1E+01	2.1E+01	U	4.67E+01		GAMMA_GS	2.5034E+00	L	04/16/2007	13:43	I
7088454	RU-106	13967-48-1	4.61E+00	pCi/L	1.2E+01	1.2E+01	U	2.32E+01		GAMMA_GS	2.5034E+00	L	04/16/2007	13:43	I
7088454	SB-125	14234-35-6	8.27E-01	pCi/L	3.2E+00	3.2E+00	U	5.97E+00		GAMMA_GS	2.5034E+00	L	04/16/2007	13:43	I
7088453	SR-90	10098-97-2	2.76E-01	pCi/L	2.9E-01	2.9E-01	U	5.82E-01	65.3	SRISO_SEP_PRE	1.004E+00	L	04/18/2007	07:05	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:
9JRQ9010	B1M9B6		MW6-SBB-A1	W07-002	W05145					03/23/2007 08:48

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7088447	ALPHA	12587-46-1	1.02E+00	pCi/L	1.0E+00	1.1E+00	U	1.69E+00	100.0	9310_ALPHABETA	1.995E-01	L	04/06/2007 12:27	I
7088449	BETA	12587-47-2	1.56E+01	pCi/L	2.2E+00	3.0E+00		2.71E+00	100.0	9310_ALPHABETA	2.01E-01	L	04/06/2007 12:43	I
7088451	BE-7	13966-02-4	4.83E+00	pCi/L	1.7E+01	1.7E+01	U	3.40E+01		GAMMALL_GS	2.0014E+00	L	04/09/2007 17:39	I
7088451	CO-60	10198-40-0	-7.00E-01	pCi/L	2.3E+00	2.3E+00	U	4.35E+00		GAMMALL_GS	2.0014E+00	L	04/09/2007 17:39	I
7088451	CS-134	13967-70-9	5.13E-02	pCi/L	2.6E+00	2.6E+00	U	4.94E+00		GAMMALL_GS	2.0014E+00	L	04/09/2007 17:39	I
7088451	CS-137	10045-97-3	-1.65E+00	pCi/L	2.0E+00	2.0E+00	U	3.31E+00		GAMMALL_GS	2.0014E+00	L	04/09/2007 17:39	I
7088451	EU-152	14683-23-9	5.24E+00	pCi/L	5.5E+00	5.5E+00	U	1.09E+01		GAMMALL_GS	2.0014E+00	L	04/09/2007 17:39	I
7088451	EU-154	15585-10-1	1.89E-01	pCi/L	6.4E+00	6.4E+00	U	1.28E+01		GAMMALL_GS	2.0014E+00	L	04/09/2007 17:39	I
7088451	EU-155	14391-16-3	1.30E+00	pCi/L	4.6E+00	4.6E+00	U	8.28E+00		GAMMALL_GS	2.0014E+00	L	04/09/2007 17:39	I
7088451	K-40	13966-00-2	2.88E+01	pCi/L	5.0E+01	5.0E+01	U	1.12E+02		GAMMALL_GS	2.0014E+00	L	04/09/2007 17:39	I
7088451	RU-106	13967-48-1	2.63E+00	pCi/L	1.7E+01	1.7E+01	U	3.34E+01		GAMMALL_GS	2.0014E+00	L	04/09/2007 17:39	I
7088451	SB-125	14234-35-6	4.76E+00	pCi/L	5.4E+00	5.4E+00	U	1.09E+01		GAMMALL_GS	2.0014E+00	L	04/09/2007 17:39	I
7088446	TC-99	14133-76-7	3.91E+01	pCi/L	5.2E+00	8.3E+00		9.72E+00	100.0	TC99_ETVDSK_LS	1.261E-01	L	04/03/2007 16:39	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:
9JRQ9210	B1MDJ1		MW6-SBB-A1	I07-032	W05145					03/23/2007 11:09

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7088452	I-129L	15046-84-1	1.57E-01	pCi/L	3.8E-01	3.8E-01	U	7.09E-01	35.9	I129LL_SEP_LEPS	3.9476E+00	L	04/24/2007 13:50	I
7088453	SR-90	10098-97-2	2.76E-03	pCi/L	2.7E-01	3.1E-01	U	6.83E-01	61.1	SRISO_SEP_PRE	1.0086E+00	L	04/18/2007 07:05	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:
9JRQ9510	B1MDY7		MW6-SBB-A1	S07-003	W05145					03/23/2007 11:20

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.

4/27/2007 9:52:24 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35142 File Name: h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7088453	SR-90	10098-97-2	3.56E+01	pCi/L	1.3E+00	5.3E+00		5.46E-01	67.1	SRISO_SEP_PRE	1.0026E+00	L	04/18/2007 07:05	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:
9JRQ9910	B1MKN2		MW6-SBB-A1	W07-003	W05145					03/23/2007 10:12

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7088447	ALPHA	12587-46-1	2.49E+00	pCi/L	1.5E+00	1.6E+00		1.78E+00	100.0	9310_ALPHABETA	2.022E-01	L	04/06/2007 12:27	I
7088449	BETA	12587-47-2	1.29E+03	pCi/L	1.6E+01	1.7E+02		2.81E+00	100.0	9310_ALPHABETA	2.00E-01	L	04/06/2007 12:43	I
7088446	TC-99	14133-76-7	6.44E+03	pCi/L	4.4E+01	4.4E+02		9.78E+00	100.0	TC99_ETVDSK_LS	1.255E-01	L	04/03/2007 16:39	I
7088450	Uranium	7440-61-1	4.63E+00	ug/L	4.8E-01	4.8E-01		8.28E-02		UTOT_KPA	2.53E-02	ML	04/26/2007 14:55	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:
9JRQ9920	B1MKN2		MW6-SBB-A1	W07-003	W05145					03/23/2007 10:12

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7095245	H-3	10028-17-8	1.00E+03	pCi/L	1.9E+02	2.2E+02		3.71E+02	100.0	906.0_H3_LSC	5.00E-03	L	04/05/2007 18:38	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:
9JRRAD10	B1MKN3		MW6-SBB-A1	W07-003	W05145					03/23/2007 07:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7088455	H-3	10028-17-8	5.71E+01	pCi/L	1.4E+02	1.6E+02	U	3.39E+02	100.0	906.0_H3_LSC	5.00E-03	L	04/03/2007 06:13	I
7088447	ALPHA	12587-46-1	9.34E-01	pCi/L	6.8E-01	7.1E-01		9.08E-01	100.0	9310_ALPHABETA	2.025E-01	L	04/06/2007 12:27	I
7088449	BETA	12587-47-2	9.70E-01	pCi/L	1.1E+00	1.1E+00	U	2.33E+00	100.0	9310_ALPHABETA	2.003E-01	L	04/06/2007 12:43	I
7088446	TC-99	14133-76-7	-5.82E-01	pCi/L	4.0E+00	5.7E+00	U	9.81E+00	100.0	TC99_ETVDSK_LS	1.251E-01	L	04/03/2007 16:39	I
7088450	Uranium	7440-61-1	-1.89E-02	ug/L	1.3E-02	1.3E-02	U	7.88E-02		UTOT_KPA	2.66E-02	ML	04/26/2007 14:57	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:
9JRRAE10	B1MKP2		MW6-SBB-A1	W07-003	W05145					03/23/2007 12:18

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7088455	H-3	10028-17-8	1.20E+04	pCi/L	3.9E+02	6.2E+02		3.30E+02	100.0	906.0_H3_LSC	5.00E-03	L	04/03/2007 07:35	I
7088447	ALPHA	12587-46-1	2.90E+00	pCi/L	1.5E+00	1.7E+00		1.64E+00	100.0	9310_ALPHABETA	2.00E-01	L	04/06/2007 12:27	I
7088449	BETA	12587-47-2	4.67E+01	pCi/L	3.5E+00	7.3E+00		2.92E+00	100.0	9310_ALPHABETA	1.996E-01	L	04/06/2007 12:43	I
7088446	TC-99	14133-76-7	1.68E+02	pCi/L	8.1E+00	1.7E+01		9.80E+00	100.0	TC99_ETVDSK_LS	1.25E-01	L	04/03/2007 16:39	I
7088450	Uranium	7440-61-1	5.72E+00	ug/L	5.9E-01	5.9E-01		7.76E-02		UTOT_KPA	2.70E-02	ML	04/26/2007 15:01	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.

4/27/2007 9:52:24 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 35142 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.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:
9JRRAF10	B1MKR0		MW6-SBB-A1	W07-003	W05145					03/23/2007 11:09

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7088446	TC-99	14133-76-7	1.27E+03	pCi/L	2.0E+01	9.2E+01		9.80E+00	100.0	TC99_ETVDSK_LS	1.251E-01	L	04/03/2007 16:39	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:
9JRRAK10	B1MDL2		MW6-SBB-A1	I07-032	W05145					03/26/2007 10:13

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7088452	I-129L	15046-84-1	3.44E-01	pCi/L	3.1E-01	3.1E-01	U	6.37E-01	43.8	I129LL_SEP_LEPS	3.9513E+00	L	04/24/2007 13:50	I
7088453	SR-90	10098-97-2	2.14E-03	pCi/L	1.3E-02	2.3E-01	U	5.09E-01	68.3	SRISO_SEP_PRE	1.0049E+00	L	04/18/2007 07:00	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.

Friday, April 27, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id:	JR2F11AB	**Sdg/Rept Nbr:**	W05145	35142	**Collection Date:** 03/22/2007 13:33
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 03/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								AV	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
7088451	BE-7	-4.20E+00	pCi/L	1.2E+01	U	2.10E+01			GAMMALL_GS	2.0007E+00	04/09/2007				D
BLK	13966-02-4			1.2E+01						L	19:34				
7088451	CO-60	1.30E+00	pCi/L	1.7E+00	U	3.66E+00			GAMMALL_GS	2.0007E+00	04/09/2007				D
BLK	10198-40-0			1.7E+00						L	19:34				
7088451	CS-134	-6.87E-01	pCi/L	1.3E+00	U	2.20E+00			GAMMALL_GS	2.0007E+00	04/09/2007				D
BLK	13967-70-9			1.3E+00						L	19:34				
7088451	CS-137	9.17E-01	pCi/L	1.4E+00	U	2.87E+00			GAMMALL_GS	2.0007E+00	04/09/2007				D
BLK	10045-97-3			1.4E+00						L	19:34				
7088451	EU-152	-8.29E-01	pCi/L	3.9E+00	U	7.06E+00			GAMMALL_GS	2.0007E+00	04/09/2007				D
BLK	14683-23-9			3.9E+00						L	19:34				
7088451	EU-154	8.91E-01	pCi/L	5.0E+00	U	9.81E+00			GAMMALL_GS	2.0007E+00	04/09/2007				D
BLK	15585-10-1			5.0E+00						L	19:34				
7088451	EU-155	5.16E-02	pCi/L	2.8E+00	U	5.21E+00			GAMMALL_GS	2.0007E+00	04/09/2007				D
BLK	14391-16-3			2.8E+00						L	19:34				
7088451	K-40	3.39E+00	pCi/L	3.1E+01	U	2.18E+01			GAMMALL_GS	2.0007E+00	04/09/2007				D
BLK	13966-00-2			3.1E+01						L	19:34				
7088451	RU-106	5.72E-01	pCi/L	1.3E+01	U	2.41E+01			GAMMALL_GS	2.0007E+00	04/09/2007				D
BLK	13967-48-1			1.3E+01						L	19:34				
7088451	SB-125	1.14E-01	pCi/L	2.9E+00	U	5.51E+00			GAMMALL_GS	2.0007E+00	04/09/2007				D
BLK	14234-35-6			2.9E+00						L	19:34				

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.

Friday, April 27, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id: JR2F31AB **Sdg/Rept Nbr:** W05145 35142 **Collection Date:** 03/26/2007 10:13

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 03/26/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
7088452	I-129L	-6.34E-02	pCi/L	1.4E-01	U	2.39E-01	99.2		I129LL_SEP_L	3.9037E+00	04/24/2007				D
BLK	15046-84-1			1.4E-01						L	16:33				

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.

Friday, April 27, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id: JR2F51AB **Sdg/Rept Nbr:** W05145 35142 **Collection Date:** 03/23/2007 11:20

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 03/23/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
7088453	SR-90	-1.15E-01	pCi/L	3.3E-01	U	7.64E-01	50.3		SRISO_SEP_P	9.984E-01	04/18/2007				D
BLK	10098-97-2			3.3E-01						L	07:00				

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.

Friday, April 27, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id: JR2F71AB **Sdg/Rept Nbr:** W05145 35142 **Collection Date:** 03/23/2007 10:01

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 03/23/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
7088454	BE-7	-3.60E+00	pCi/L	1.2E+01	U	2.03E+01			GAMMA_GS	2.4999E+00	04/16/2007				D
BLK	13966-02-4			1.2E+01						L	13:43				
7088454	CO-60	2.78E-01	pCi/L	1.2E+00	U	2.56E+00			GAMMA_GS	2.4999E+00	04/16/2007				D
BLK	10198-40-0			1.2E+00						L	13:43				
7088454	CS-134	1.44E+00	pCi/L	1.4E+00	U	2.88E+00			GAMMA_GS	2.4999E+00	04/16/2007				D
BLK	13967-70-9			1.4E+00						L	13:43				
7088454	CS-137	-8.36E-01	pCi/L	1.1E+00	U	1.75E+00			GAMMA_GS	2.4999E+00	04/16/2007				D
BLK	10045-97-3			1.1E+00						L	13:43				
7088454	EU-152	-4.38E-01	pCi/L	2.9E+00	U	5.21E+00			GAMMA_GS	2.4999E+00	04/16/2007				D
BLK	14683-23-9			2.9E+00						L	13:43				
7088454	EU-154	5.68E-01	pCi/L	3.2E+00	U	6.61E+00			GAMMA_GS	2.4999E+00	04/16/2007				D
BLK	15585-10-1			3.2E+00						L	13:43				
7088454	EU-155	-1.86E+00	pCi/L	2.2E+00	U	3.65E+00			GAMMA_GS	2.4999E+00	04/16/2007				D
BLK	14391-16-3			2.2E+00						L	13:43				
7088454	K-40	-2.73E+01	pCi/L	2.5E+01	U	5.16E+01			GAMMA_GS	2.4999E+00	04/16/2007				D
BLK	13966-00-2			2.5E+01						L	13:43				
7088454	RU-106	-2.36E+00	pCi/L	1.0E+01	U	1.86E+01			GAMMA_GS	2.4999E+00	04/16/2007				D
BLK	13967-48-1			1.0E+01						L	13:43				
7088454	SB-125	3.17E-01	pCi/L	2.5E+00	U	4.77E+00			GAMMA_GS	2.4999E+00	04/16/2007				D
BLK	14234-35-6			2.5E+00						L	13:43				

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.

Friday, April 27, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id: JR2F81AB **Sdg/Rept Nbr:** W05145 35142 **Collection Date:** 03/23/2007 10:12

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 03/23/2007

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
7088455	H-3	-1.48E+00	pCi/L	1.5E+02	U	3.31E+02	100.0		906.0_H3_LSC	5.00E-03	04/02/2007				D
BLK	10028-17-8			1.4E+02						L	21:59				

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.

Friday, April 27, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id:	JR2F81DX	**Sdg/Rept Nbr:**	W05145 35142	**Collection Date:**	03/23/2007 10:12
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	03/23/2007

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
7088455	H-3	-2.47E+01	pCi/L	1.5E+02	U	3.38E+02	100.0		906.0_H3_LSC	5.00E-03	04/03/2007				D
BLK	10028-17-8			1.4E+02						L	00:44				

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.

Friday, April 27, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id: JR2FE1AB **Sdg/Rept Nbr:** W05145 35142 **Collection Date:** 03/23/2007 12:18

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 03/23/2007

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
7088446	TC-99	7.04E-01	pCi/L	5.8E+00	U	9.72E+00	100.0		TC99_ETVDSK	1.262E-01	04/03/2007				D
BLK	14133-76-7			4.0E+00						L	16:39				

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.

Friday, April 27, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id:	JR2FG1AB	**Sdg/Rept Nbr:**	W05145 35142	**Collection Date:**	03/23/2007 08:48
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	03/23/2007

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
7088447	ALPHA	4.44E-01	pCi/L	5.2E-01	U	9.06E-01	100.0		9310_ALPHAB	2.01E-01	04/06/2007				D
BLK	12587-46-1			5.1E-01						L	13:32				

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.

Friday, April 27, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id:	JR2FK1AB	**Sdg/Rept Nbr:**	W05145 35142	**Collection Date:**	03/23/2007 12:20
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	03/23/2007

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
7088449	BETA	9.33E-01	pCi/L	1.3E+00	U	2.73E+00	100.0		9310_ALPHAB	2.026E-01	04/06/2007				D
BLK	12587-47-2			1.3E+00						L	12:43				

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.

Friday, April 27, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id: JR2FR1AB **Sdg/Rept Nbr:** W05145 35142 **Collection Date:** 03/22/2007 14:17

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 03/22/2007

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
7088450	Uranium	-1.78E-02	ug/L	5.3E-03	U	8.22E-02			UTOT_KPA	2.55E-02	04/26/2007				D
BLK	7440-61-1			5.3E-03						ML	14:22				

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.

Friday, April 27, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id: JR2F11CS **Sdg/Rept Nbr:** W05145 35142 **Collection Date:** 03/22/2007 13:33

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 03/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
7088451	CO-60	4.19E+01	pCi/L	8.7E+00		5.28E+00		3.80E+01	GAMMALL_GS	1.9994E+00	04/09/2007			75	D
BS	10198-40-0			8.7E+00				110.3		L	17:40			125	
7088451	CS-137	2.41E+01	pCi/L	6.7E+00		4.55E+00		2.48E+01	GAMMALL_GS	1.9994E+00	04/09/2007			70	D
BS	10045-97-3			6.7E+00				97.0		L	17:40			130	
7088451	EU-152	6.45E+01	pCi/L	1.4E+01		1.08E+01		7.68E+01	GAMMALL_GS	1.9994E+00	04/09/2007			70	D
BS	14683-23-9			1.4E+01				84.0		L	17:40			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.

Friday, April 27, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id: JR2F31CS **Sdg/Rept Nbr:** W05145 35142 **Collection Date:** 03/26/2007 10:13
Client Id: NA **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** BS **Received Date:** 03/26/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
7088452	I-129L	1.06E+01	pCi/L	1.4E+00		3.49E-01	92.6	9.63E+00	I129LL_SEP_L	3.99E+00	04/24/2007			70	D
BS	15046-84-1			1.4E+00				110.3		L	16:33			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.

Friday, April 27, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id: JR2F51CS **Sdg/Rept Nbr:** W05145 35142 **Collection Date:** 03/23/2007 11:20

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 03/23/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
7088453	SR-90	1.43E+01	pCi/L	2.4E+00		7.47E-01	41.5	1.34E+01	SRISO_SEP_P	1.0004E+00	04/18/2007			70	D
BS	10098-97-2			1.1E+00				106.7		L	07:00			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.

Friday, April 27, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id:	JR2F71CS	**Sdg/Rept Nbr:**	W05145 35142	**Collection Date:**	03/23/2007 10:01
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	03/23/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
7088454	CO-60	3.01E+01	pCi/L	6.8E+00		3.20E+00		3.03E+01	GAMMA_GS	2.4982E+00	04/16/2007			75	D
BS	10198-40-0			6.8E+00				99.2		L	13:43			125	
7088454	CS-137	1.99E+01	pCi/L	5.2E+00		3.85E+00		2.00E+01	GAMMA_GS	2.4982E+00	04/16/2007			70	D
BS	10045-97-3			5.2E+00				99.4		L	13:43			130	
7088454	EU-152	6.18E+01	pCi/L	1.5E+01	U	1.85E+01		6.12E+01	GAMMA_GS	2.4982E+00	04/16/2007			70	D
BS	14683-23-9			1.5E+01				101.1		L	13:43			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.

Friday, April 27, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id: JR2F81CS **Sdg/Rept Nbr:** W05145 35142 **Collection Date:** 03/23/2007 10:12

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 03/23/2007

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
7088455	H-3	2.41E+03	pCi/L	2.6E+02		3.32E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	04/02/2007			75	D
BS	10028-17-8			2.1E+02				89.0		L	23:21			125	

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.

Friday, April 27, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id: JR2F81EM **Sdg/Rept Nbr:** W05145 35142 **Collection Date:** 03/23/2007 10:12

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 03/23/2007

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
7088455	H-3	2.29E+03	pCi/L	2.5E+02		3.39E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	04/03/2007			75	D
BS	10028-17-8			2.1E+02				84.6		L	02:06			125	

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.

Friday, April 27, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id: JR2FE1CS **Sdg/Rept Nbr:** W05145 35142 **Collection Date:** 03/23/2007 12:18

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 03/23/2007

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
7088446	TC-99	5.05E+02	pCi/L	4.0E+01		9.64E+00	100.0	5.26E+02	TC99_ETVDSK	1.272E-01	04/03/2007			75	D
BS	14133-76-7			1.3E+01				95.9		L	16:39			125	

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.

Friday, April 27, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id: JR2FG1CS **Sdg/Rept Nbr:** W05145 35142 **Collection Date:** 03/23/2007 08:48

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 03/23/2007

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
7088447	ALPHA	2.08E+01	pCi/L	5.5E+00		8.51E-01	100.0	2.29E+01	9310_ALPHAB	2.001E-01	04/06/2007			70	D
BS	12587-46-1			3.0E+00				90.9		L	13:32			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.

Friday, April 27, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id: JR2FK1CS **Sdg/Rept Nbr:** W05145 35142 **Collection Date:** 03/23/2007 12:20

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 03/23/2007

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
7088449	BETA	2.31E+01	pCi/L	4.2E+00		2.73E+00	100.0	2.27E+01	9310_ALPHAB	1.997E-01	04/06/2007			70	D
BS	12587-47-2			2.5E+00				101.6		L	12:43			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.

Friday, April 27, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id: JR2FR1CS **Sdg/Rept Nbr:** W05145 35142 **Collection Date:** 03/22/2007 14:17
Client Id: NA **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** BS **Received Date:** 03/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BO	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
7088450	Uranium	3.75E+01	ug/L	4.4E+00		8.25E-02		3.54E+01	UTOT_KPA	2.54E-02	04/26/2007			75	D
BS	7440-61-1			4.4E+00				106.1		ML	14:26			125	

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.

Friday, April 27, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id: JR2FR1DS **Sdg/Rept Nbr:** W05145 35142 **Collection Date:** 03/22/2007 14:17

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 03/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BP	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
7088450	Uranium	3.74E+00	ug/L	3.8E-01		8.35E-02		3.60E+00	UTOT_KPA	2.51E-02	04/26/2007			75	D
BS	7440-61-1			3.8E-01				103.9		ML	14:28			125	

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.

Friday, April 27, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id: JRMJ91CR **Sdg/Rept Nbr:** W05145 35142 **Collection Date:** 03/22/2007 14:17
Client Id: B1MKT1 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 03/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-003	MW6-SBB-A19981								BQ	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
7088450	Uranium	7.14E+01	ug/L	8.4E+00		8.15E-02			UTOT_KPA	2.57E-02	04/26/2007	2.0	0.2		D
DUP	7440-61-1	7.00E+01		8.4E+00						ML	14:37	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.

Friday, April 27, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id: JRML71FR **Sdg/Rept Nbr:** W05145 35142 **Collection Date:** 03/22/2007 13:33

Client Id: B1MKL3 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 03/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-003	MW6-SBB-A19981								BS	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
7088451	BE-7	5.87E+00	pCi/L	1.4E+01	U	2.74E+01			GAMMALL_GS	1.9595E+00	04/09/2007	540.2	0.8		D
DUP	13966-02-4	-2.70E+00		1.4E+01						L	17:38	20.0	3		
7088451	CO-60	5.36E-01	pCi/L	2.3E+00	U	4.43E+00			GAMMALL_GS	1.9595E+00	04/09/2007	124.5	1.1		D
DUP	10198-40-0	2.30E+00		2.3E+00						L	17:38	20.0	3		
7088451	CS-134	-1.21E+00	pCi/L	1.4E+00	U	2.27E+00			GAMMALL_GS	1.9595E+00	04/09/2007	596.7	3.7		D
DUP	13967-70-9	2.43E+00		1.4E+00						L	17:38	20.0	3		
7088451	CS-137	2.01E-02	pCi/L	1.6E+00	U	2.94E+00			GAMMALL_GS	1.9595E+00	04/09/2007	99.8	0.		D
DUP	10045-97-3	6.00E-02		1.6E+00						L	17:38	20.0	3		
7088451	EU-152	-2.50E+00	pCi/L	3.7E+00	U	6.20E+00			GAMMALL_GS	1.9595E+00	04/09/2007	0.0	0.4		D
DUP	14683-23-9	-1.37E+00		3.7E+00						L	17:38	20.0	3		
7088451	EU-154	-4.47E-01	pCi/L	4.1E+00	U	7.86E+00			GAMMALL_GS	1.9595E+00	04/09/2007	0.0	0.1		D
DUP	15585-10-1	-8.62E-01		4.1E+00						L	17:38	20.0	3		
7088451	EU-155	-1.82E+00	pCi/L	3.0E+00	U	5.10E+00			GAMMALL_GS	1.9595E+00	04/09/2007	0.0	0.3		D
DUP	14391-16-3	-1.25E+00		3.0E+00						L	17:38	20.0	3		
7088451	K-40	-3.22E+01	pCi/L	3.2E+01	U	6.64E+01			GAMMALL_GS	1.9595E+00	04/09/2007	0.0	2.7		D
DUP	13966-00-2	-9.26E+01		3.2E+01						L	17:38	20.0	3		
7088451	RU-106	-5.37E+00	pCi/L	1.3E+01	U	2.25E+01			GAMMALL_GS	1.9595E+00	04/09/2007	0.0	0.5		D
DUP	13967-48-1	-9.85E+00		1.3E+01						L	17:38	20.0	3		
7088451	SB-125	-2.55E+00	pCi/L	3.5E+00	U	5.75E+00			GAMMALL_GS	1.9595E+00	04/09/2007	0.0	1.5		D
DUP	14234-35-6	1.17E+00		3.5E+00						L	17:38	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.

Friday, April 27, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id: JRQ481DR **Sdg/Rept Nbr:** W05145 35142 **Collection Date:** 03/23/2007 12:20
Client Id: B1MDC2 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 03/23/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-031	MW6-SBB-A19981								BT	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
7088449	BETA	2.28E+03	pCi/L	3.0E+02		3.70E+00	100.0		9310_ALPHAB	1.413E-01	04/06/2007	3.8	0.4		D
DUP	12587-47-2	2.19E+03		2.6E+01						L	12:43	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.

Friday, April 27, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id: JRQ5N1ER **Sdg/Rept Nbr:** W05145 35142 **Collection Date:** 03/23/2007 10:01

Client Id: B1MDD9 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 03/23/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-031	MW6-SBB-A19981								BU	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
7088454	BE-7	-6.96E+00	pCi/L	1.1E+01	U	1.78E+01			GAMMA_GS	2.5034E+00	04/16/2007	0.0	0.4		D
DUP	13966-02-4	-3.94E+00		1.1E+01						L	16:32	20.0	3		
7088454	CO-60	3.60E-01	pCi/L	1.3E+00	U	2.72E+00			GAMMA_GS	2.5034E+00	04/16/2007	43.5	0.2		D
DUP	10198-40-0	5.59E-01		1.3E+00						L	16:32	20.0	3		
7088454	CS-134	6.54E-02	pCi/L	1.3E+00	U	2.52E+00			GAMMA_GS	2.5034E+00	04/16/2007	142.7	0.3		D
DUP	13967-70-9	3.91E-01		1.3E+00						L	16:32	20.0	3		
7088454	CS-137	-3.38E-01	pCi/L	1.1E+00	U	1.88E+00			GAMMA_GS	2.5034E+00	04/16/2007	0.0	0.1		D
DUP	10045-97-3	-3.00E-01		1.1E+00						L	16:32	20.0	3		
7088454	EU-152	-8.98E-02	pCi/L	3.1E+00	U	5.60E+00			GAMMA_GS	2.5034E+00	04/16/2007	297.9	0.3		D
DUP	14683-23-9	4.56E-01		3.1E+00						L	16:32	20.0	3		
7088454	EU-154	-2.34E+00	pCi/L	4.1E+00	U	6.93E+00			GAMMA_GS	2.5034E+00	04/16/2007	0.0	0.6		D
DUP	15585-10-1	-6.39E-01		4.1E+00						L	16:32	20.0	3		
7088454	EU-155	-3.15E-01	pCi/L	2.2E+00	U	3.97E+00			GAMMA_GS	2.5034E+00	04/16/2007	0.0	1.		D
DUP	14391-16-3	-1.93E+00		2.2E+00						L	16:32	20.0	3		
7088454	K-40	-2.65E+01	pCi/L	2.6E+01	U	5.28E+01			GAMMA_GS	2.5034E+00	04/16/2007	0.0	2.		D
DUP	13966-00-2	1.04E+01		2.6E+01						L	16:32	20.0	3		
7088454	RU-106	4.63E-01	pCi/L	1.1E+01	U	1.96E+01			GAMMA_GS	2.5034E+00	04/16/2007	163.5	0.6		D
DUP	13967-48-1	4.61E+00		1.1E+01						L	16:32	20.0	3		
7088454	SB-125	2.10E-01	pCi/L	3.2E+00	U	5.80E+00			GAMMA_GS	2.5034E+00	04/16/2007	118.9	0.3		D
DUP	14234-35-6	8.27E-01		3.2E+00						L	16:32	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.

Friday, April 27, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id:	JRQ901FR	**Sdg/Rept Nbr:**	W05145	35142	**Collection Date:** 03/23/2007 08:48
Client Id:	B1M9B6	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 03/23/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-002	MW6-SBB-A19981								BV	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
7088447	ALPHA	1.06E+00	pCi/L	1.1E+00	U	1.81E+00	100.0		9310_ALPHAB	1.992E-01	04/06/2007	4.4	0.1		D
DUP	12587-46-1	1.02E+00		1.1E+00						L	12:27	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.

Friday, April 27, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id: JRQ951CR
Client Id: B1MDY7
Moisture/Solids%*:

Sdg/Rept Nbr: W05145 35142
Matrix: WATER WATER
QC Type: DUP

Collection Date: 03/23/2007 11:20
Sample On Date:
Received Date: 03/23/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-003	MW6-SBB-A19981								BW	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
7088453	SR-90	3.33E+01	pCi/L	5.0E+00		5.22E-01	68.7		SRISO_SEP_P	1.0032E+00	04/18/2007	6.8	0.7		D
DUP	10098-97-2	3.56E+01		1.2E+00						L	07:00	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.

Friday, April 27, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id: JRQ992GR **Sdg/Rept Nbr:** W05145 35142 **Collection Date:** 03/23/2007 10:12
Client Id: B1MKN2 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 03/23/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-003	MW6-SBB-A19981								BX	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
7095245	H-3	1.09E+03	pCi/L	2.2E+02		3.70E+02	100.0		906.0_H3_LSC	5.00E-03	04/05/2007	8.8	0.6		D
DUP	10028-17-8	1.00E+03		1.9E+02						L	20:01	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.

Friday, April 27, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id: JRRAE1GR **Sdg/Rept Nbr:** W05145 35142 **Collection Date:** 03/23/2007 12:18
Client Id: B1MKP2 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 03/23/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-003	MW6-SBB-A19981								BY	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
7088446	TC-99	1.62E+02	pCi/L	1.7E+01		9.82E+00	100.0		TC99_ETVDSK	1.252E-01	04/03/2007	3.6	0.5		D
DUP	14133-76-7	1.68E+02		8.0E+00						L	16:39	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.

Friday, April 27, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id: JRRAK1DR
Client Id: B1MDL2
Moisture/Solids%*:

Sdg/Rept Nbr: W05145 35142
Matrix: WATER WATER
QC Type: DUP

Collection Date: 03/26/2007 10:13
Sample On Date:
Received Date: 03/26/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-032	MW6-SBB-A19981								CA	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
7088452	I-129L	5.01E-01	pCi/L	2.4E-01	U	4.06E-01	94.9		I129LL_SEP_L	3.9474E+00	04/24/2007	37.2	0.9		D
DUP	15046-84-1	3.44E-01		2.4E-01						L	13:50	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.

Friday, April 27, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id: JRMKK1CW **Sdg/Rept Nbr:** W05145 35142 **Collection Date:** 03/22/2007 13:46

Client Id: B1MKT4 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** MS **Received Date:** 03/22/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-003	MW6-SBB-A19981								BR	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
7088450	Uranium	3.68E+01	ug/L	5.9E+00		8.09E-02		3.49E+01	UTOT_KPA	2.59E-02	04/26/2007			60	D
MS	7440-61-1			5.9E+00				105.6		ML	14:41			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.

Friday, April 27, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05145.Edd, h:\Reportdb\edd\FeadIV\Rad\35142.Edd

Lab Sample Id: JRRAF1CW **Sdg/Rept Nbr:** W05145 35142 **Collection Date:** 03/23/2007 11:09

Client Id: B1MKR0 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** MS **Received Date:** 03/23/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-003	MW6-SBB-A19981								BZ	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
7088446	TC-99	3.49E+03	pCi/L	3.4E+02		9.70E+00	100.0	3.54E+03	TC99_ETVDSK	1.264E-01	04/03/2007			60	D
MS	14133-76-7			3.7E+01				98.5		L	16:39			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.

Lot No., Due Date: J7C260194,J7C260198; 05/10/2007
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 7088447; RALPHA-A Alpha by GPC-Am
SDG, Matrix: W05145; 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 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. 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. 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 => JRQ991AC ALPHA 2.5E+00 L:1.8E+00 JRRAD1AC ALPHA 9.3E-01 L:9.1E-01 JRRAE1AC ALPHA 2.9E+00 L:1.6E+00		✓	
8.23 Result <= Action Level, when Defined. OK: No Action Level Found => ALPHA OK: No Callin Level Found => ALPHA	✓		
8.24 Result + 3s >=0, Not Too Negative. 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 Lisa Antonson **Date** 4/17/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7088447
W05145

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 A. Adam Date: 4-17-07

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

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/17/2007 2:24:11 PM

Lot No., Due Date: J7C220124,J7C230239,J7C260175,J7C260181,J7C260194,J7C260198; 05/10/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7088449; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05145; 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 => JRQ481AA 140.50<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. 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 => JRHP71AA BETA 1.2E+02 L:3.0E+00 JRML71AA BETA 2.8E+01 L:2.9E+00 JRMMK1AA BETA 7.3E+02 L:3.0E+00 JRQ481AA BETA 2.2E+03 L:3.6E+00 JRQ5N1AA BETA 9.0E+00 L:2.8E+00 JRQ901AC BETA 1.6E+01 L:2.7E+00 JRQ991AD BETA 1.3E+03 L:2.8E+00 JRRAE1AD BETA 4.7E+01 L:2.9E+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. 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 Lisa Anderson Date 4/17/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7088449
W02145

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 Adkins Date: 4-17-07

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/18/2007 3:02:59 PM

Lot No., Due Date: J7C260175,J7C260181,J7C260195,J7C260197,J7C260199; 05/10/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7088453; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05145; 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 Steven E. Richland **Date** 4/18/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

OC Batch Number: 7088453
W05145

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. Adkins Date: 4-19-07

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/17/2007 2:19:11 PM

Lot No., Due Date: J7C220124,J7C230239,J7C260194; 05/10/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7088451; RGAMMA Gamma by GER

SDG, Matrix: W05145; WATER

1.0 COC

	Yes	No	N/A
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		

2.0 QC Batch

	Yes	No	N/A
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?			✓

3.0 QC & Samples

	Yes	No	N/A
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?			✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		

4.0 Raw Data

	Yes	No	N/A
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?			
4.4 Were spectra reviewed/meet contractual requirements?			✓
4.5 Were raw counts reviewed for anomalies?	✓		

5.0 Other

	Yes	No	N/A
5.1 Are all nonconformances included and noted?			✓
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?	✓		
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:

First Level Review Lisa Autonson **Date** 4/17/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7088451
W05145

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 Allen Date: 4-17-07

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/17/2007 2:14:58 PM

Lot No., Due Date: J7C260181; 05/10/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7088454; RGAMMA Gamma by GER

SDG, Matrix: W05145; 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 Lisa Antonson **Date** 4/17/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 708454
W05145

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: 4-17-07

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/26/2007 3:06:46 PM

Lot No., Due Date: J7C260195,J7C260199; 05/10/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7088452; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05145; 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 Lisa Anderson **Date** 4/26/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7088452
W05145

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: 4-27-07

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/17/2007 12:03:52 PM

Lot No., Due Date: J7C220124,J7C230239,J7C260194,J7C260198; 05/10/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7088446; RTC99 Tc-99 by LSC

SDG, Matrix: W05145; 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 => JRRAF1AC 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!			✓

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 Lisa Anderson Date 4/17/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7088446
W05145

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 R Adam Date: 4-17-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/9/2007 2:20:32 PM

Lot No., Due Date: J7C260198; 05/10/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7095245; RTRITIUM H-3 by LSC

SDG, Matrix: W05145; 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 QC Type(s) not found => 7095245 B Q:V8		✓	
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 => JRQ992AA 5.00<10.00 Q:VB OK AL 4/9/07		✓	
8.07 The Correct Count Geometry was Used. Count Geometry => JR2F82AF SVP15/5<>SVP10/10 JRQ992AA SVP15/5<>SVP10/10 JRQ992AG SVP15/5<>SVP10/10 Q:VC OK AL 4/9/07		✓	
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. No Method Blanks (Blks) found in Batch!			✓
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). No Method Blanks (Blks) found in Batch!			✓
8.13 QAS Specified Duplicate Equation Value within Control Limits. RPD > UCL : 20.0=> JRQ992AG H-3 22.0 (RPD)		✓	
8.14 LCS within Control Limits. No Blank Spikes (LCS) found in Batch!			✓
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. 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 => H-3 OK; No Callin Level Found => H-3	✓		
8.24 Result + 3s >=0, Not Too Negative. 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 Angela Long **Date** 4/9/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7095245

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 num

Second Level Review: Erika Jordan Date: 4/10/7

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: **10-09699**
NCM Initiated By: angela long
Date Opened: 04/09/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: H-3 by LSC
Lot #'s (Sample #'s): J7C260198 (1,2,3), J7C290000 (455),
QC Batches: 7088455, 7095245

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

Problem Description / Root Cause

Name	Date	Description
angela long	04/09/2007	The dups were out in the original batch, so a recount was issued. The dups are within range of one another so the batches will be accepted.

Corrective Action

Name	Date	Corrective Action
angela long	04/09/2007	N/A

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: 4/9/2007

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/26/2007 5:20:05 PM

Lot No., Due Date: J7C220114,J7C220124,J7C230230,J7C230239,J7C260198; 05/10/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7088450 ; RUNAT UNat by KPA

SDG, Matrix: W05145; 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 _____ **Date** 4/26/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7088450
W05145

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: 4-27-07

STL RICHLAND

PNNL J7C220124
W05145
Due 05-04-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-003-196**

Page 1 of 1

Collector Fluor Hanford L. D. WALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, MARCH 2007	HNF-N-5061	**Ice Chest No.** GW0 001 **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
B1MKK8		W	3-7-07	1136	1x20-mL P	Activity Scan	None
B1MKK8		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1MKK8		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1MKK8		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
B1MKK8		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
						TRHP7	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L. D. WALL	L. D. Wall		MAR 21 2007 1325	Eric Darby	Eric Darby		MAR 21 2007 1325
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 J7C220124
W05145
Due 05-04-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-003-88**

Page 1 of 1

Collector: Fluor Hanford L. D. WALL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-003	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, MARCH 2007	HNF-N-506-1	Ice Chest No.: FJ-2 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
B1MJT6		W	3-21-07	1037	1x20-mL P	Activity Scan	None
B1MJT6		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JRHRA	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L. D. WALL	L. D. Wall		MAR 21 2007 1325	E. Darley	Eric Darley		MAR 21 2007 1325
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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SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 03-21-07 1325

Client: PGW SDG #: W05145 NA [ ] SAF #: W07-003 NA [ ]

Work Order Number: JTC220124 Chain of Custody # W07-003-196, 88

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: 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ tape
   - ____ custody seals
   - ____ hazard labels
   - ✓ appropriate samples labels
9. Samples are:
   - ✓ in good condition
   - ____ broken
   - ____ leaking
   - ____ have air bubbles (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] adjusted pH [ ]
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: S. Smith Date: 03-21-07 13:25

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, 12/05, Rev. 6

PNNL J7C220114
W05145
Due 05-04-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-003-430

Page 1 of 1

Collector: Fluor Hanford F. M. HALL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-003	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, MARCH 2007	HMF - N - 506 - 2	Ice Chest No.: RGSS 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
B1MKR5		W	3/21/7	1139	1x20-mL P	Activity Scan	None
B1MKR5		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JRHM7	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F. M. HALL			MAR 2 1 2007 12:10	S. Smith		S. Smith	MAR 2 1 2007 12:10
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 JTC220114
W05145
Due 05.04.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-003-436**

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Collector Fluor Hanford F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, MARCH 2007	HNF-N-506-2	**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
B1MKR8		W	3/21/7	1016	1x20-mL P	Activity Scan	None
B1MKR8		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JRHNJ	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F. M. HALL			MAR 21 2007 12:10		J. Smith	J. Smith	MAR 21 2007 12:10
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

STEL RICHLAND

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 03-21-07 12:10

Client: PGW SDG #: W05145 NA [ ] SAF #: W07-003 NA [ ]

Work Order Number: JTC220114 Chain of Custody # W07 003-430, 436

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: 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   _____ tape
   _____ custody seals
   _____ hazard labels
   1 appropriate samples labels
9. Samples are:
   1 in good condition
   _____ broken
   _____ leaking
   _____ have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] adjusted pH [ ]
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: S. Smith Date: 03-21-07 12:10

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, 12/05, Rev. 6

STL RICHLAND

PNNL J7C230230 W05145 Due 05.07.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-003-442**

Page 1 of 1

Collector Fluor Hanford L. D. WALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, MARCH 2007	HNF-N-506-1	**Ice Chest No.** II-2 **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
B1MKT1		W	3-22-07	1417	1x20-mL P	Activity Scan	None
B1MKT1		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JRMJ9	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L. D. WALL	L. D. Wall		MAR 22 2007 1440	E. Darby	Eric Darby		MAR 22 2007 1440
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 J7C030230
W05145
Due 05 07 07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-003-448**

Page 1 of 1

Collector: Fluor Hanford R.D. WALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, MARCH 2007	HNF N-506-1	**Ice Chest No.** J2 **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
B1MKT4		W	3-22-07	1340	1x20-mL P	Activity Scan	None
B1MKT4		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JRMKK	

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
Fluor Hanford R.D. WALL	R.D. Wall	MAR 22 2007 1440	Eric Dooley	Eric Dooley	MAR 22 2007 1440
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

PNNL J7C230230 W05145 Due 05-07-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-003-460

Page 1 of 1

Collector: Fluor Hanford L. D. WALL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-003	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, MARCH 2007	HNF-N-506-1	Ice Chest No.: TJ2 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
B1MKV0		W	3-22-07	1236	1x20-mL P	Activity Scan	None
B1MKV0		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

JRMKN

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L. D. WALL	L.D. Wall		MAR 22 2007 1440	Eric Darby	Eric Darby		MAR 22 2007 1440
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

STL RICHLAND

PNNL JTC230230 W05145 Due 05-07-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-003-466**

Page 1 of 1

Collector Fluor Hanford L. D. WALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, MARCH 2007	HNF-N-506-1	**Ice Chest No.** SAWS-118 **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
B1MKV3		W	3-22-07	1057	1x20-mL P	Activity Scan	None
B1MKV3		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JRMKW	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L. D. WALL	L. D. Wall		MAR 22 2007 1440		Eric Darby	Eric Darby	MAR 22 2007 1440
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: 3/22/07 1440

Client: PNNL SDG #: W05145 NA [ ] SAF #: W07-003 NA [ ]

Work Order Number: J7C230230 Chain of Custody # W07-003-442, 448, 460, 466

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 [ ] adjusted pH [ ]
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: Eva Danby Date: 3/22/07 1440

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, 12/05, Rev. 6

PNNL J7C230239
W05145
Due 03-07-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-003-204

Page 1 of 1

Collector: Fluor Hanford F.M. HALL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-003	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, MARCH 2007	HNF-N-506 6	Ice Chest No.: GRP-06-005 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
B1MKL3		W	3-22-07	1333	1x20-mL P	Activity Scan	None
B1MKL3		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1MKL3		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1MKL3		W			1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
B1MKL3		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
						JRMLT	
					3-22-07		

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F.M. HALL			1440 MAR 22 2007		Eric Darby	Eric Darby	1440 MAR 22 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

SIL RICHLAND

PNNL J7C230239
W08145
due 05.07.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-003-220**

Page 1 of 1

Collector Fluor Hanford F.M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, MARCH 2007	HNF-N-506 6	**Ice Chest No.** GRP-06-05 **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
B1MKM3		W	3-22-07	1225	1x20-mL P	Activity Scan	None
B1MKM3		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1MKM3		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1MKM3		W			1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
B1MKM3		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

JRMMK

3-22-07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F.M. HALL			MAR 2 2 2007 1440	Eric Darby	Eric Darby		MAR 2 2 2007 1440
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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 3/22/07 1440

Client: PNNL SDG #: W05145 NA [ ] SAF #: W07-003 NA [ ]

Work Order Number: J7C230239 Chain of Custody # W07-003-204, 220

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: 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   _____ tape
   _____ custody seals
   _____ hazard labels
   ✓ appropriate samples labels
9. Samples are:
   ✓ in good condition
   _____ broken
   _____ leaking
   _____ have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] adjusted pH [ ]
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 3/22/07 1440

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, 12/05, Rev. 6

PNNL J7C260175 W05145 due 05.07.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I07-031-10

Collector: Fluor Hanford F.M. HALL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: I07-031	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100NR2IAM-LOI, MARCH 2007	HNF-N-506-2	Ice Chest No.: ROSS Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: CERCLA	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
B1MDC2		W	3/23/07	1220	1x20-mL P	Activity Scan	None
B1MDC2		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1MDC2		W			1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2

JRQ48

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F.M. HALL			MAR 23 2007 1400		Eric Dardy		MAR 23 2007 1400
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

STL RICHLAND

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 3/23/07 1400

Client: PGW SDG #: W05145 NA [ ] SAF #: I07-031 NA [ ]

Work Order Number: J7C260175 Chain of Custody # I07-031-10

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: 1
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 [ ] adjusted pH [ ]
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 3/23/07 1400

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, 12/05, Rev. 6

PNNL J7C260181
W05145
Due 05-07-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I07-031-23**

Page 1 of 1

Collector FLUOR HANFORD M.R. WEIL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I07-031	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100NR2IAM-LOL MARCH 2007	HNF-N-506 6	**Ice Chest No.** GW0-06-8 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol CERCLA	**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
B1MDD9		W	3/27/07	1001	1x20-mL P	Activity Scan	None
B1MDD9		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1MDD9		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
B1MDD9		W	↓	↓	3x1000-mL G/P	GAMMA_GS: List-1 (10)	HNO3 to pH <2
						JRQSN	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD M.R. WEIL	[signature]		MAR 2 3 2007 1400	[signature]	Eric Darby		MAR 2 3 2007 1400
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

STL RICHLAND

87

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 3/23/07 1400

Client: PGW SDG #: W05145 NA [ ] SAF #: F07-031 NA [ ]

Work Order Number: J7C260181 Chain of Custody # I07-031-23

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: 1
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 [ ] adjusted pH [ ]
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: Eu Darby Date: 3/23/07 1400

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, 12/05, Rev. 6

STL RICHLAND

PNNL J7C260194 W05~~146~~ 5145 SS Due 05 07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-002-506

Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	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-502-1	Ice Chest No. J-2 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
B1M9B6		W	3-27-07	0849	1x20-mL P	Activity Scan	None
B1M9B6		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1M9B6		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1M9B6		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						JRQ90	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			MAR 23 2007 1400		Eric Daly		MAR 23 2007 1400
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: 3/26/07 1400

Client: PGW SDG #: W05145 NA [ ] SAF #: W07-002 NA [ ]

Work Order Number: J7C260194 Chain of Custody # W07-002-506

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: _____) _____
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 [ ] adjusted pH [ ]
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: Em Darby Date: 3/25/07 1400

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, 12/05, Rev. 6

PNNL J7C260195
W05145
Due 050707

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I07-032-2

Page 1 of 1

Collector Fluor Hanford R. T. SICKLE	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. I07-032	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 2UP1-LOL MARCH 2007	HNF-N-506-1	Ice Chest No. TJ-2 Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol SURV	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
B1MDJ1		W	3-23-07	1109	1x20-mL P	Activity Scan	None
B1MDJ1		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1MDJ1		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						JRQ92	

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Fluor Hanford R. T. SICKLE	MAR 23 2007 1400	Eric Dirby	MAR 23 2007 1400

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 3/23/07 1400

Client: PGW SDG #: W05145 NA [ ] SAF #: I07-032 NA [ ]

Work Order Number: J7C260195 Chain of Custody # I07-032-2

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [✓] Yes [✓] No [ ] 3-23-07
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: 1
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 [ ] adjusted pH [ ]
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: E. Daly Date: 3/23/07 1400

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, 12/05, Rev. 6

STL RICHLAND

PNNL J7C260197
W05145
due 05-07-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-003-37

Page 1 of 1

Collector: ~~FLUOR HANFORD~~ M.R. WEIL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S07-003	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, MARCH 2007	HNF-N-506 6	Ice Chest No.: GW0-06-8 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	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
B1MDY7		W	3/23/07	1120	1x20-mL P	Activity Scan	None
B1MDY7		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

JRQ95

Relinquished By: ~~FLUOR HANFORD~~ M.R. WEIL (Print) (Sign)	Date/Time: MAR 23 2007 1400	Received By: (Print) Eric Darby (Sign)	Date/Time: MAR 23 2007 1400
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: 3/23/07 1400

Client: PGW SDG #: W05145 NA [ ] SAF #: S07-003 NA [ ]

Work Order Number: J7C260197 Chain of Custody # S07-003-37

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: 1
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 [ ] adjusted pH [ ]
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: Em Darby Date: 3/23/07 1400

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, 12/05, Rev. 6

PNNL J7C260198
W05145
Due 05-07-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-003-266

Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-003	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, MARCH 2007	HNF-N-506-1	Ice Chest No.: TJ-2 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
B1MKN2		W	3-27-07	1012	1x20-mL P	Activity Scan	None
B1MKN2		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1MKN2		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1MKN2		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1MKN2		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						JRQ99	

Relinquished By	Date/Time	Received By	Date/Time
Print: Fluor Hanford R. T. SICKLE; Sign: [signature]	MAR 23 2007 1400	Print: E Day; Sign: [signature]	MAR 23 2007 1400

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

STL RICHLAND

PNNL J7C260198 W05145

Fluor Hanford R. T. SICKLE Due 05-07-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-003-267

Page 1 of 1

Collector	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, MARCH 2007	HHF-N-SG-1	**Ice Chest No.** TJ-2 **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
B1MKN3		W	3-23-07	0745	1x20-mL P	Activity Scan	None
B1MKN3		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1MKN3		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1MKN3		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1MKN3		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						~~JRQ-88~~	
						JRRAD	

Relinquished By Fluor Hanford R. T. SICKLE Print Sign	Date/Time 1400 MAR 23 2007	Received By Print Sign Eric Darby	Date/Time 1400 MAR 23 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 = 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

STL RICHLAND

96

PNNL J7C260198
W05145
Due 05-07-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-003-274

Page 1 of 1

Collector Fluor Hanford R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, MARCH 2007	HNF-N-506-1	**Ice Chest No.** TJ-2 **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
B1MKP2		W	3-23-07	1214	1x20-mL P	Activity Scan	None
B1MKP2		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1MKP2		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1MKP2		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1MKP2		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None

JRRAE

Relinquished By Fluor Hanford R. T. SICKLE (Print) (Sign)	Date/Time 1400 MAR 23 2007	Received By Eric Darby (Print) (Sign)	Date/Time 1400 MAR 23 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

97

PNNL J7C260198
W05145
due 05 07 07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-003-290

Page 1 of 1

Collector Fluor Hanford	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. R. T. SICKLE W07-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, MARCH 2007	HNF-N-506-1	**Ice Chest No.** NJ-2 **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
B1MKR0		W	3-23-07	1109	1x20-mL P	Activity Scan	None
B1MKR0		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

JRRAF

Relinquished By Fluor Hanford R. T. SICKLE (Print) (Sign)	Date/Time MAR 23 2007 1400	Received By (Print) Eric Dorley (Sign)	Date/Time MAR 23 2007 1400
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

98

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 3/23/07 1400

Client: PGW SDG #: W05145 NA [ ] SAF #: W07-003 NA [ ]

Work Order Number: JTC260198 Chain of Custody # W07-003-266, 267, 274, 270, 50

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 SS
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 [✓] adjusted pH [ ]
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 Danby Date: 3/23/07 1400

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, 12/05, Rev. 6

PNNL J7C260199
W05145
Due 05-10-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I07-032-9

Page 1 of 1

Collector: FLUOR HANFORD M.R. WEIL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: I07-032	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2UP1-LOI, MARCH 2007	Logbook: HNF-N-506-6	Ice Chest No.: 6RP-06-005 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	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
B1MDL2		W	3/26/07	1013	1x20-mL P	Activity Scan	None
B1MDL2		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1MDL2		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

JRRAK

L Wall 3/26/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD M.R. WEIL			MAR 2 6 2007 1435		Eric Darby	Eric Darby	MAR 2 6 2007 1435
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

SIT RICHLAND

100

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 3/26/07

Client: PGW SDG #: W05145 NA [ ] SAF #: I07-032 NA [ ]

Work Order Number: J7C260199 Chain of Custody # I07-032-9

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: _____
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 [✓] adjusted pH [ ]
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 Danby Date: 3/26/07 1435

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, 12/05, Rev. 6

STL RICHLAND

4/4/2007 10:21:56 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AZ Gross Alpha PrpRC5014
S7 Gross Alpha by GPC using Am-241 curve
5I CLIENT: HANFORD

Pipet #: 235

AnalyDueDate: 05/07/2007 W05145

Sep1 DT/Tm Tech:

Batch: 7088447 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

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 JRQ90-1-AA J7C260194-1-SAMP 03/23/2007 08:48	199.50g,in AmtRec: 20ML,500ML,LP,4LP	#Containers: 4		1.5	41.4	.50	10A	1253	4/6/07	Scr: Alpha: 1.34E-03 uCi/Sa Beta: 3.30E-04 uCi/Sa
2 JRQ90-1-AF-X J7C260194-1-DUP 03/23/2007 08:48	199.20g,in AmtRec: 20ML,500ML,LP,4LP	#Containers: 4			52.1		10B			Scr: Alpha: 1.34E-03 uCi/Sa Beta: 3.30E-04 uCi/Sa
3 JRQ99-1-AC J7C260198-1-SAMP 03/23/2007 10:12	202.20g,in AmtRec: 20ML,2X500ML,2XLP	#Containers: 5			47.8		10C			Scr: Alpha: 1.24E-03 uCi/Sa Beta: 3.61E-05 uCi/Sa
4 JRRAD-1-AC J7C260198-2-SAMP 03/23/2007 07:45	202.50g,in AmtRec: 20ML,2X500ML,2XLP	#Containers: 5			0.5		10D			Scr: Alpha: -1.73E-04 uCi/Sa Beta: 4.03E-07 uCi/Sa
5 JRRAE-1-AC J7C260198-3-SAMP 03/23/2007 12:18	200.00g,in AmtRec: 20ML,2X500ML,2XLP	#Containers: 5			38.0		10F			Scr: Alpha: -4.37E-04 uCi/Sa Beta: 4.33E-04 uCi/Sa
6 JR2FG-1-AA-B J7C290000-447-BLK 03/23/2007 08:48	201.00g,in AmtRec:	#Containers: 1			0.5		10A	1359	4/6/07 r	Scr: Alpha: Beta:
7 JR2FG-1-AC-C J7C290000-447-LCS 03/23/2007 08:48	200.10g,in AmtRec:	ASD4156 03/23/07,pd 06/01/01,r #Containers: 1			0.7		10B			Scr: Alpha: Beta:

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

4/4/2007 10:22:02 AM

Sample Preparation/Analysis

AZ Gross Alpha PrpRC5014
S7 Gross Alpha by GPC using Am-241 curve
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 05/07/2007

Sep1 DT/Tm Tech:

Batch: 7088447 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:

Comments: PH < 2.0 JB 4-4-07

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

JRQ901AA-SAMP Constituent List:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:
JR2FG1AA-BLK:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:
JR2FG1AC-LCS:
Am-241 RDL: pCi/L LCL:70 UCL:130 RPD:20

JRQ901AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JR2FG1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JR2FG1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

4/17/2007 2:21:02 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/17/2006, 4/22/2007, Batch: '7088447', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7088447						
AC		**CalcC**	**BockJ**	4/4/2007 10:17:32		
SC			wagarr	IsBatched	3/29/2007 3:49:21 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	4/4/2007 10:17:32 AM	RICH-RC-5014 Revision 6
SC			BockJ	Prep1C	4/4/2007 10:22:02 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	InPrep2	4/5/2007 8:39:49 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	Prep2C	4/6/2007 11:31:00 AM	RICH-RC-5014 REVISION 6
SC			BlackCL	InCnt1	4/6/2007 11:46:59 AM	RICH-RD-0003 REVISION 4
SC			StringerR	CalcC	4/6/2007 2:12:38 PM	RICH-RD-0003 REVISION 4
AC			**BockJ**	4/4/2007 10:22:02		
AC			**BockJ**	4/4/2007 10:24:40		
AC			**AshworthA**	4/5/2007 8:39:49 AM		
AC			**AshworthA**	4/6/2007 11:31:00		
AC			**BlackCL**	4/6/2007 11:46:59		
AC			**StringerR**	4/6/2007 2:12:38 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.26

STL RICHLAND

4/4/2007 10:04:38 AM

Sample Preparation/Analysis

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 #: 235

AnalyDueDate: 05/04/2007 W05145

Sep1 DT/Tm Tech:

Batch: 7088449 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 JRHP7-1-AA J7C220124-1-SAMP 03/21/2007 11:36		198.60g,in AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5		1.5	63.9	100	2UA	1332	4/6/07	Scr: Alpha: -1.45E-03 uCi/Sa Beta: 2.50E-03 uCi/Sa
2 JRML7-1-AA J7C230239-1-SAMP 03/22/2007 13:33		198.40g,in AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5			106.3		26B			Scr: Alpha: -7.99E-04 uCi/Sa Beta: 1.20E-04 uCi/Sa
3 JRMMK-1-AA J7C230239-2-SAMP 03/22/2007 12:25		199.10g,in AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5			75.0		26C			Scr: Alpha: 5.37E-04 uCi/Sa Beta: 7.25E-05 uCi/Sa
4 JRQ48-1-AA J7C260175-1-SAMP 03/23/2007 12:20		140.50g,in AmtRec: 20ML,4XLP #Containers: 5			44.6		26D			Scr: Alpha: 2.03E-03 uCi/Sa 3.5E-01L Beta: 2.59E-03 uCi/Sa 1.4E-01L
5 JRQ48-1-AD-X J7C260175-1-DUP 03/23/2007 12:20		141.30g,in AmtRec: 20ML,4XLP #Containers: 5			41.3		27A			Scr: Alpha: 2.03E-03 uCi/Sa 3.5E-01L Beta: 2.59E-03 uCi/Sa 1.4E-01L
6 JRQ5N-1-AA J7C260181-1-SAMP 03/23/2007 10:01		200.70g,in AmtRec: 20ML,7XLP #Containers: 8			71.9		27B			Scr: Alpha: -1.78E-04 uCi/Sa Beta: 1.01E-03 uCi/Sa
7 JRQ90-1-AC J7C260194-1-SAMP 03/23/2007 08:48		201.00g,in AmtRec: 20ML,500ML,LP,4LP #Containers: 4			85.3		27C			Scr: Alpha: 1.34E-03 uCi/Sa Beta: 3.30E-04 uCi/Sa

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STL RICHLAND

4/4/2007 10:04:41 AM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 05/04/2007

Sep1 DT/Tm Tech:

Batch: 7088449 WATER pCi/L PM, Quote: SA , 57671

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:
8 JRQ99-1-AD J7C260198-1-SAMP 03/23/2007 10:12		200.00g,in AmtRec: 20ML,2X500ML,2XLP	#Containers: 5	1.5	80.2	100	27D Scr:	1332 Alpha: 1.24E-03 uCi/Sa	4/6/07 Beta: 3.61E-05 uCi/Sa	
9 JRRAD-1-AD J7C260198-2-SAMP 03/23/2007 07:45		200.30g,in AmtRec: 20ML,2X500ML,2XLP	#Containers: 5		0.1		28A Scr:	Alpha: -1.73E-04 uCi/Sa	Beta: 4.03E-07 uCi/Sa	
10 JRRAE-1-AD J7C260198-3-SAMP 03/23/2007 12:18		199.60g,in AmtRec: 20ML,2X500ML,2XLP	#Containers: 5		66.5		28B Scr:	Alpha: -4.37E-04 uCi/Sa	Beta: 4.33E-04 uCi/Sa	
11 JR2FK-1-AA-B J7C290000-449-BLK 03/23/2007 12:20		202.60g,in AmtRec:	#Containers: 1		Ø		28C Scr:	Alpha:	Beta:	
12 JR2FK-1-AC-C J7C290000-449-LCS 03/23/2007 12:20		199.70g,in AmtRec:	BESB3040 03/23/07,pd 08/08/06,r #Containers: 1		0.6		28D Scr:	Alpha:	Beta:	

Comments: JRQ48-SAMP "Comments. Aliquots reduced due to high screening results. JB 04/04/07"

pH < 2.0 JB 4.4.07

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

JRHP71AA-SAMP Constituent List:

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4/4/2007 10:04:45 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 #: _____

AnalyDueDate: 05/04/2007

Sep1 DT/Tm Tech:

Batch: 7088449 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:

```
 BETA        RDL:4.00E+00    pCi/L    LCL:        UCL:        RPD:
JR2FK1AA-BLK:
 BETA        RDL:4.00E+00    pCi/L    LCL:        UCL:        RPD:
JR2FK1AC-LCS:
 Sr-90       RDL:            pCi/L    LCL:70      UCL:130     RPD:20
JRHP71AA-SAMP Calc Info:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
JR2FK1AA-BLK:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
JR2FK1AC-LCS:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

Approved By _____ Date: _____

4/17/2007 2:23:45 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/17/2006, 4/22/2007, Batch: '7088449', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7088449						
AC		CalcC	BockJ	4/4/2007 9:52:25 AM		
SC			wagarr	IsBatched	3/29/2007 3:49:21 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	4/4/2007 9:52:25 AM	RICH-RC-5014 Revision 6
SC			BockJ	Prep1C	4/4/2007 10:04:44 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	InPrep2	4/5/2007 8:40:05 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	Prep2C	4/6/2007 11:31:09 AM	RICH-RC-5014 REVISION 6
SC			BlackCL	InCnt1	4/6/2007 11:47:04 AM	RICH-RD-0003 REVISION 4
SC			StringerR	CalcC	4/6/2007 2:12:44 PM	RICH-RD-0003 REVISION 4
AC			BockJ	4/4/2007 10:04:44		
AC			AshworthA	4/5/2007 8:40:05 AM		
AC			AshworthA	4/6/2007 11:31:09		
AC			BlackCL	4/6/2007 11:47:04		
AC			StringerR	4/6/2007 2:12:44 PM		
AC			StringerR	4/6/2007 2:14:53 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.26

STL RICHLAND

4/16/2007 4:44:26 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 05/07/2007

CL Sr-90 Prp/SepRC5006(5071)
TL Sr-85 by NaI and Sr-90 by GPC 7 day ingrowth
5I CLIENT: HANFORD

Balance Id:1120482733,1120373922,1120

Pipet #: _____

Sep1 DT/Tm Tech: 04/09/2007 15:40,ManisD

Sep2 DT/Tm Tech: 04/16/2007 09:45,ManisD

Prep Tech: BockJ,ManisD

Batch: 7088453 **WATER** **pCi/L** **PM, Quote: SA , 57671**
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JRQ48-1-AC J7C260175-1-SAMP		1005.80g,in	SRTB14631 04/02/07,pd 09/11/06,r	0.750	1.0	25.3	100	7A 2A	0840 0750	4/17/03 4/18/03	
						~~04/09/2007 15:40,s1, 04/16/2007~~					
03/23/2007 12:20		AmtRec: 20ML,4XLP	#Containers: 5					Scr: Alpha: 2.03E-03 uCi/Sa 3.5E-01L		Beta: 2.59E-03 uCi/Sa 1.4E-01L	
2 JRQ5N-1-AD J7C260181-1-SAMP		1004.00g,in	SRTB14632 04/02/07,pd 09/11/06,r	0.6533	1.0	25.6	100	7B 2B	0840 0750	4/17/03 4/18/03	
						~~04/09/2007 15:40,s1, 04/16/2007~~					
03/23/2007 10:01		AmtRec: 20ML,7XLP	#Containers: 8					Scr: Alpha: -1.78E-04 uCi/Sa		Beta: 1.01E-03 uCi/Sa	
3 JRQ92-1-AC J7C260195-1-SAMP		1008.60g,in	SRTB14633 04/02/07,pd 09/11/06,r	0.6158	1.0	25.2	100	7C 2C	0840 0750	4/17/03 4/18/03	
						~~04/09/2007 15:40,s1, 04/16/2007~~					
03/23/2007 11:09		AmtRec: 20ML,3XLP,2X4LP	#Containers: 6					Scr: Alpha: -1.17E-03 uCi/Sa		Beta: 2.90E-03 uCi/Sa	
4 JRQ95-1-AA J7C260197-1-SAMP		1002.60g,in	SRTB14634 04/02/07,pd 09/11/06,r	0.6711	1.0	25.5	100	1A 2D	0840 0750	4/17/03 4/18/03	
						~~04/09/2007 15:40,s1, 04/16/2007~~					
03/23/2007 11:20		AmtRec: 20ML,3XLP	#Containers: 4					Scr: Alpha: 5.12E-04 uCi/Sa		Beta: -1.43E-04 uCi/Sa	

STL RICHLAND

4/16/2007 4:44:28 PM

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 05/07/2007

Batch: 7088453 WATER pCi/L
SEQ Batch, Test: None

Sample Preparation/Analysis

CL Sr-90 Prp/SepRC5006(5071)
TL Sr-85 by NaI and Sr-90 by GPC 7 day ingrowth
5I CLIENT: HANFORD

PM, Quote: SA , 57671

Balance Id:1120482733,1120482733,1120

Pipet #: _____

Sep1 DT/Tm Tech: 04/09/2007 15:40,ManisD

Sep2 DT/Tm Tech: 04/16/2007 09:45,ManisD

Prep Tech: ,ManisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
5 JRQ95-1-AC-X J7C260197-1-DUP		1003.20g,in	SRTB14635 04/02/07,pd 09/11/06,r	0.6868	1.0	25.4	100	1B	0840	4/17/07	
						~~04/09/2007 15:40,s1, 04/16/2007~~		3L	0750	4/18/07	
03/23/2007 11:20		AmtRec: 20ML,3XLP	#Containers: 4					Scr:	Alpha: 5.12E-04 uCi/Sa	Beta: -1.43E-04 uCi/Sa	
6 JRRAK-1-AC J7C260199-1-SAMP		1004.90g,in	SRTB14636 04/02/07,pd 09/11/06,r	0.6827	1.0	25.7	100	1C	0840	4/17/07	
						~~04/09/2007 15:40,s1, 04/16/2007~~		3B	0750	4/18/07	
03/26/2007 10:13		AmtRec: 20ML,3XLP,2X4LP	#Containers: 6					Scr:	Alpha: 4.62E-03 uCi/Sa	Beta: 2.78E-03 uCi/Sa	
7 JR2F5-1-AA-B J7C290000-453-BLK		998.40g,in	SRTB14637 04/02/07,pd 09/11/06,r	0.8029	1.0	25.5	100	1D	0840	4/17/07	
						~~04/09/2007 15:40,s1, 04/16/2007~~		3C	0750	4/18/07	
03/23/2007 11:20		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:	
8 JR2F5-1-AC-C J7C290000-453-LCS		1000.40g,in	SRSG1328 02/28/07,pd 09/11/06,r	0.4153	1.0	25.6	100	2A	0840	4/17/07	
						~~04/09/2007 15:40,s1, 04/16/2007~~		3D	0750	4/18/07	
03/23/2007 11:20		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:	

STL RICHLAND

4/16/2007 4:44:31 PM

Sample Preparation/Analysis

CL Sr-90 Prp/SepRC5006(5071)
TL Sr-85 by NaI and Sr-90 by GPC 7 day ingrowth
5I CLIENT: HANFORD

Balance Id:1120482733,1120482733,1120

Pipet #: _____

AnalyDueDate: 05/07/2007

Sep1 DT/Tm Tech: 04/09/2007 15:40,ManisD

Batch: 7088453 pCi/L

Sep2 DT/Tm Tech: 04/16/2007 09:45,ManisD

SEQ Batch, Test: None

Prep Tech: ManisD

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

Comments: JRQ48-SAMP Comments.
JRQ5N-SAMP "Comments.DUP aliquot not poured due to insufficient sample amount. JB 04/12/07"

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

JRQ481AC-SAMP Constituent List:

Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:70	UCL:130	RPD:20

JR2F51AA-BLK:

Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:	UCL:	RPD:

JR2F51AC-LCS:

Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:70	UCL:130	RPD:20

JRQ481AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JR2F51AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JR2F51AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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4/18/2007 3:02:32 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/18/2006, 4/23/2007, Batch: '7088453', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7088453						
AC		**CalcC**	**BockJ**	4/4/2007 11:17:17		
SC			wagarr	IsBatched	3/29/2007 3:49:21 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	4/4/2007 11:17:17 AM	RICH-RC-5014 Revision 6
SC			BockJ	Prep1C	4/4/2007 11:28:23 AM	RICH-RC-5016 REVISION 6
SC			ManisD	InSep1	4/4/2007 1:24:35 PM	RICH-RC-5006 REV 6
SC			DAWKINSO	InCnt1	4/9/2007 4:08:22 PM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	Cnt1C	4/9/2007 8:25:43 PM	RICH-RD-0007 REVISION 5
SC			ManisD	Sep2C	4/16/2007 4:46:23 PM	RICH-RC-5071 REV 4
SC			DAWKINSO	InCnt2	4/16/2007 5:04:28 PM	RICH-RD-0003 REVISION 4
SC			StringerR	CalcC	4/18/2007 8:47:44 AM	RICH-RD-0003 REVISION 4
AC			**BockJ**	4/4/2007 11:28:23		
AC			**ManisD**	4/4/2007 1:24:35 PM		
AC			**DAWKINSO**	4/9/2007 4:08:22 PM		
AC			**DAWKINSO**	4/9/2007 8:25:43 PM		
AC			**ManisD**	4/16/2007 4:46:23 PM		
AC			**DAWKINSO**	4/16/2007 5:04:28 PM		
AC			**StringerR**	4/18/2007 8:47:44		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 8

ICOCFractions v4.8.26

PGW WATER

4/5/2007 1:39:28 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: 05/04/2007 WO5145

Sep1 DT/Tm Tech:

Batch: 7088451 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

STL RICHLAND

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 JRHP7-1-AC J7C220124-1-SAMP 03/21/2007 11:36		2000.10g,in AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5				100	G13 4/9/07	1916	4/9/07	
							Scr:	Alpha: -1.45E-03 uCi/Sa		Beta: 2.50E-03 uCi/Sa
2 JRML7-1-AC J7C230239-1-SAMP 03/22/2007 13:33		1970.80g,in AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5					G13	1917		
							Scr:	Alpha: -7.99E-04 uCi/Sa		Beta: 1.20E-04 uCi/Sa
3 JRML7-1-AF-X J7C230239-1-DUP 03/22/2007 13:33		1959.50g,in AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5					G12	1918		
							Scr:	Alpha: -7.99E-04 uCi/Sa		Beta: 1.20E-04 uCi/Sa
4 JRMMK-1-AC J7C230239-2-SAMP 03/22/2007 12:25		1998.70g,in AmtRec: 20ML,2X500ML,LP,4LP #Containers: 5					G6	1918		
							Scr:	Alpha: 5.37E-04 uCi/Sa		Beta: 7.25E-05 uCi/Sa
5 JRQ90-1-AD J7C260194-1-SAMP 03/23/2007 08:48		2001.40g,in AmtRec: 20ML,500ML,LP,4LP #Containers: 4					G7	1919		
							Scr:	Alpha: 1.34E-03 uCi/Sa		Beta: 3.30E-04 uCi/Sa
6 JR2F1-1-AA-B J7C290000-451-BLK 03/22/2007 13:33		2000.70g,in AmtRec: #Containers: 1					G12	2114		
							Scr:	Alpha:		Beta:
7 JR2F1-1-AC-C J7C290000-451-LCS 03/22/2007 13:33		1999.40g,in AmtRec: #Containers: 1	QCAG1350 03/23/07,pd 03/07/05,r				G8	1920		
							Scr:	Alpha:		Beta:

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

4/5/2007 1:39:29 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 05/04/2007

Sep1 DT/Tm Tech:

Batch: 7088451 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:

Comments: JRML7-SAMP "Comments. Aliquots not full 2000 ml. due to insuffiecient sample. JB 04/05/07"

PH < 2.0 gs 4-5-07

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

JRHP71AC-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:
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:

JR2F11AA-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:

JR2F11AC-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						

JRHP71AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JR2F11AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JR2F11AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

4/17/2007 2:18:39 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/17/2006, 4/22/2007, Batch: '7088451', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7088451						
AC		CalcC	BockJ	4/5/2007 1:26:21 PM		
SC			wagarr	IsBatched	3/29/2007 3:49:21 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	4/5/2007 1:26:21 PM	rich-rc-5016 rEVISION 6
SC			BockJ	Prep1C	4/5/2007 1:39:34 PM	RICH-RC-5017 REVISION 5
SC			AshworthA	InPrep2	4/6/2007 8:43:58 AM	RICH-RC-5017 REVISION 4
SC			AshworthA	Prep2C	4/9/2007 2:49:30 PM	RICH-RC-5017 REVISION 4
SC			DAWKINSO	InCnt1	4/9/2007 3:30:37 PM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	CalcC	4/9/2007 9:33:42 PM	RICH-RD-0007 REVISION 5
AC			BockJ	4/5/2007 1:39:34 PM		
AC			AshworthA	4/6/2007 8:43:58 AM		
AC			AshworthA	4/9/2007 2:49:30 PM		
AC			DAWKINSO	4/9/2007 3:30:37 PM		
AC			DAWKINSO	4/9/2007 9:33:42 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.26

STL RICHLAND

4/12/2007 3:18:09 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: 05/07/2007 W05145

Batch: 7088454 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

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

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 JRQ5N-1-AC J7C260181-1-SAMP 03/23/2007 10:01		2503.40g,in AmtRec: 20ML,7XLP	#Containers: 8		100ml	100	610	1523	4/16/07 B	Scr: Alpha: -1.78E-04 uCi/Sa Beta: 1.01E-03 uCi/Sa
2 ~~JRQ5N-1-AE-X~~ See comment 100+ JB 4-12-07 J7C260181-1-DUP 03/23/2007 10:01		AmtRec: 20ML,7XLP	#Containers: 8		—		612	1812	4/16/07	Scr: Alpha: -1.78E-04 uCi/Sa Beta: 1.01E-03 uCi/Sa
3 JR2F7-1-AA-B J7C290000-454-BLK 03/23/2007 10:01		2499.90g,in AmtRec:	#Containers: 1		100ml		612	1523	4/16/07 B	Scr: Alpha: Beta:
4 JR2F7-1-AC-C J7C290000-454-LCS 03/23/2007 10:01		2498.20g,in AmtRec:	QCAG1351 03/23/07,pd 03/07/05,r #Containers: 1				613	1523		Scr: Alpha: Beta:

Comments: JRQ5N-SAMP "Comments.DUP aliquot not poured due to insufficient sample amount. JB 04/12/07"
PH <2.0 JB 4-12-07

Rc Sample for dup on different detector. 4/16/07

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

JRQ5N1AC-SAMP Constituent List:

Co-60	RDL:2.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:1.50E+01	pCi/L	LCL:70	UCL:130	RPD:20	Cs-137DA	RDL:1.50E+01	pCi/L	LCL:70	UCL:130	RPD:20
Eu-152	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	Eu-154	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:
Eu-155	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Sb-125	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:						

JR2F71AA-BLK:

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4/12/2007 3:18:13 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 05/07/2007

Sep1 DT/Tm Tech:

Batch: 7088454 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:

Co-60	RDL:2.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-137DA	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Eu-152	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	Eu-154	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:
Eu-155	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Sb-125	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:						
JR2F71AC-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						

JRQ5N1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JR2F71AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JR2F71AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

4/17/2007 2:14:15 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/17/2006, 4/22/2007, Batch: '7088454', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7088454						
AC		**CalcC**	**BockJ**	4/12/2007 3:08:34 PM		
SC			wagarr	IsBatched	3/29/2007 3:49:21 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	4/12/2007 3:08:34 PM	RICH-RC-5015 Revision 4
SC			BockJ	Prep1C	4/12/2007 3:18:58 PM	RICH-RC-5017 REVISION 5
SC			AshworthA	InPrep2	4/13/2007 9:06:40 AM	RICH-RC-5017 REVISION 4
SC			AshworthA	Prep2C	4/16/2007 1:33:51 PM	RICH-RC-5017 REVISION 4
SC			BlackCL	InCnt1	4/16/2007 1:40:06 PM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	CalcC	4/16/2007 9:45:39 PM	RICH-RD-0007 REVISION 5
AC			**BockJ**	4/12/2007 3:18:58 PM		
AC			**AshworthA**	4/13/2007 9:06:40		
AC			**AshworthA**	4/16/2007 1:33:51 PM		
AC			**BlackCL**	4/16/2007 1:40:06 PM		
AC			**DAWKINSO**	4/16/2007 9:45:39 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.26

STL RICHLAND

4/12/2007 3:04:52 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

BN I-129 Prp/SepRC5025
TB Gamma by LEPD
5I CLIENT: HANFORD

Pipet #:

AnalyDueDate: 05/07/2007 W05145

Sep1 DT/Tm Tech:

Batch: 7088452 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ, BostedD

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 JRQ92-1-AA J7C260195-1-SAMP 03/23/2007 11:09		3947.60g,in AmtRec: 20ML,3XLP,2X4LP	ITA6147 03/15/07 #Containers: 6		13.3	100	L2 Scr:	1530 Alpha: -1.17E-03 uCi/Sa	4/24/07 Beta: 2.90E-03 uCi/Sa	
2 JRRAK-1-AA J7C260199-1-SAMP 03/26/2007 10:13		3951.30g,in AmtRec: 20ML,3XLP,2X4LP	ITA6148 03/15/07 #Containers: 6		16.2		L4 Scr:	1530 Alpha: 4.62E-03 uCi/Sa	Beta: 2.78E-03 uCi/Sa	
3 JRRAK-1-AD-X J7C260199-1-DUP 03/26/2007 10:13		3947.40g,in AmtRec: 20ML,3XLP,2X4LP	ITA6149 03/15/07 #Containers: 6		35.1		L5 Scr:	1530 Alpha: 4.62E-03 uCi/Sa	Beta: 2.78E-03 uCi/Sa	
4 JR2F3-1-AA-B J7C290000-452-BLK 03/26/2007 10:13		3903.70g,in AmtRec:	ITA6150 03/15/07 #Containers: 1		36.7		L4 Scr:	1813 Alpha:	4/24/07 Beta:	
5 JR2F3-1-AC-C J7C290000-452-LCS 03/26/2007 10:13		3990.00g,in AmtRec:	ISD0738 12/20/06 #Containers: 1		37.8		L5 Scr:	0 Alpha:	0 Beta:	

Comments: PH neutral JB 4-12-07

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

JRQ921AA-SAMP Constituent List:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:

4/12/2007 3:04:57 PM

Sample Preparation/Analysis

BN I-129 Prp/SepRC5025
TB Gamma by LEPD
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 05/07/2007

Sep1 DT/Tm Tech:

Batch: 7088452 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:

```
JR2F31AA-BLK:
  I-129        RDL:1.00E+00    pCi/L    LCL:        UCL:        RPD:
JR2F31AC-LCS:
  I-129        RDL:5           pCi/L    LCL:70      UCL:130     RPD:20
JRQ921AA-SAMP Calc Info:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
JR2F31AA-BLK:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
JR2F31AC-LCS:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

Approved By _____ Date: _____

4/26/2007 3:05:10 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/26/2006, 5/1/2007, Batch: '7088452', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7088452						
AC		CalcC	BockJ	4/12/2007 2:47:41 PM		
SC			wagarr	IsBatched	3/29/2007 3:49:21 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	4/12/2007 2:47:41 PM	RICH-RC-5015 Revision 4
SC			BockJ	Prep1C	4/12/2007 3:05:02 PM	RICH-RC-5017 REVISION 5
SC			BostedD	InPrep2	4/13/2007 11:18:04 AM	RICHRC5025 REV3
SC			BostedD	Prep2C	4/24/2007 1:45:02 PM	RICHRC5025 REV3
SC			BlackCL	InCnt1	4/24/2007 1:49:51 PM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	CalcC	4/24/2007 8:20:32 PM	RICH-RD-0007 REVISION 5
AC			BockJ	4/12/2007 3:05:02 PM		
AC			BostedD	4/13/2007 11:18:04		
AC			BostedD	4/24/2007 1:45:02 PM		
AC			BlackCL	4/24/2007 1:49:51 PM		
AC			DAWKINSO	4/24/2007 8:20:32 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.26

STL RICHLAND

4/2/2007 10:40:48 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: 05/04/2007 005145

Batch: 7088446 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 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 JRHP7-1-AD J7C220124-1-SAMP 03/21/2007 11:36			124.80g,in	124.80g		.60				
	AmtRec: 20ML,2X500ML,LP,4LP		#Containers: 5					Scr:	Alpha: -1.45E-03 uCi/Sa	Beta: 2.50E-03 uCi/Sa
2 JRHRA-1-AA J7C220124-2-SAMP 03/21/2007 10:37			126.50g,in	126.50g						
	AmtRec: 20ML,500MLP		#Containers: 2					Scr:	Alpha: -6.39E-05 uCi/Sa	Beta: 1.90E-04 uCi/Sa
3 JRML7-1-AD J7C230239-1-SAMP 03/22/2007 13:33			124.90g,in	124.90g						
	AmtRec: 20ML,2X500ML,LP,4LP		#Containers: 5					Scr:	Alpha: -7.99E-04 uCi/Sa	Beta: 1.20E-04 uCi/Sa
4 JRMMK-1-AD J7C230239-2-SAMP 03/22/2007 12:25			124.50g,in	124.50g						
	AmtRec: 20ML,2X500ML,LP,4LP		#Containers: 5					Scr:	Alpha: 5.37E-04 uCi/Sa	Beta: 7.25E-05 uCi/Sa
5 JRQ90-1-AE J7C260194-1-SAMP 03/23/2007 08:48			126.10g,in	126.10g						
	AmtRec: 20ML,500ML,LP,4LP		#Containers: 4					Scr:	Alpha: 1.34E-03 uCi/Sa	Beta: 3.30E-04 uCi/Sa
6 JRQ99-1-AE J7C260198-1-SAMP 03/23/2007 10:12			125.50g,in	125.50g						
	AmtRec: 20ML,2X500ML,2XLP		#Containers: 5					Scr:	Alpha: 1.24E-03 uCi/Sa	Beta: 3.61E-05 uCi/Sa
7 JRRAD-1-AE J7C260198-2-SAMP 03/23/2007 07:45			125.10g,in	125.10g						
	AmtRec: 20ML,2X500ML,2XLP		#Containers: 5					Scr:	Alpha: -1.73E-04 uCi/Sa	Beta: 4.03E-07 uCi/Sa

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STL RICHLAND

4/2/2007 10:40:51 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 05/04/2007

Sep1 DT/Tm Tech:

Batch: 7088446 WATER pCi/L PM, Quote: SA , 57671

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

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:
8 JRRAE-1-AE J7C260198-3-SAMP 03/23/2007 12:18			125.00g,in	125.00g		60				
		AmtRec: 20ML,2X500ML,2XLP		#Containers: 5				Scr:	Alpha: -4.37E-04 uCi/Sa	Beta: 4.33E-04 uCi/Sa
9 JRRAE-1-AG-X J7C260198-3-DUP 03/23/2007 12:18			125.20g,in	125.20g						
		AmtRec: 20ML,2X500ML,2XLP		#Containers: 5				Scr:	Alpha: -4.37E-04 uCi/Sa	Beta: 4.33E-04 uCi/Sa
10 JRRAF-1-AA J7C260198-4-SAMP 03/23/2007 11:09			125.10g,in	125.10g						
		AmtRec: 20ML,500ML		#Containers: 2				Scr:	Alpha: -7.13E-05 uCi/Sa	Beta: 1.86E-04 uCi/Sa
11 JRRAF-1-AC-S J7C260198-4-MS 03/23/2007 11:09			126.40g,in	126.40g	TCSG1786 02/28/07,pd 01/10/06,r					
		AmtRec: 20ML,500ML		#Containers: 2				Scr:	Alpha: -7.13E-05 uCi/Sa	Beta: 1.86E-04 uCi/Sa
12 JR2FE-1-AA-B J7C290000-446-BLK 03/23/2007 12:18			126.20g,in	126.20g						
		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:
13 JR2FE-1-AC-C J7C290000-446-LCS 03/23/2007 12:18			127.20g,in	127.20g	TCSE2093 02/28/07,pd 01/10/06,r					
		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:
14 JR2FE-1-AD-BN J7C290000-446-IBLK 03/23/2007 12:18										
		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:

4/2/2007 10:40:58 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 05/04/2007

Batch: 7088446 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:
15 JR2FE-1-AE-BN										
J7C290000-446-IBLK										
03/23/2007 12:18		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:

Comments: pH < 2.0 JB 4-2-07

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

JRHP71AD-SAMP Constituent List:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
JRRAF1AC-MS:

JR2FE1AA-BLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
JR2FE1AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
JR2FE1AD-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
JR2FE1AE-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:

JRHP71AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JRRAF1AC-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JR2FE1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JR2FE1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JR2FE1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JR2FE1AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

STL RICHLAND

4/2/2007 10:40:59 AM

Sample Preparation/Analysis

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

AnalyDueDate: 05/04/2007

Batch: 7088446 **pCi/L**
SEQ Batch, Test: None

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:

Approved By _____ Date: _____

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4/17/2007 12:03:19 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/17/2006, 4/22/2007. Batch: '7088446', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7088446						
AC		CalcC	BockJ	4/2/2007 10:25:27		
SC			wagarr	IsBatched	3/29/2007 3:49:21 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	4/2/2007 10:25:27 AM	rich-rc-5014 rEVISION 6
SC			BockJ	Prep1C	4/2/2007 10:40:55 AM	RICH-RC-5016 REVISION 6
SC			FABREM	Sep1C	4/2/2007 6:26:58 PM	RICH-RC-5065 REVISION 5
SC			DAWKINSO	InCnt1	4/2/2007 6:37:12 PM	RICH-RD-0001 REVISION 3
SC			StringerR	CalcC	4/4/2007 9:38:09 AM	RICH-RD-0001 REVISION 3
AC			BockJ	4/2/2007 10:40:55		
AC			FABREM	4/2/2007 6:26:58 PM		
AC			DAWKINSO	4/2/2007 6:37:12 PM		
AC			StringerR	4/4/2007 9:38:09 AM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt:5

ICOCFractions v4.8.26

SEVERN TRENT STL

*** RE-COUNT REQUEST ***

DUE DATE 5/7/07

CUSTOMER PGW

ANALYSIS H-3

MATRIX Water

LOT NUMBER J7L260198

SAMPLE DELIVERY GROUP

OLD BATCH NUMBER 7088455

	LAB SAMPLE ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1)	~~All~~	dups out
2)	JRQ99-1-AA	
3)	JRQ99-1-AG	
4)	JR2F8-1-AF	
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		
13)		
14)		
15)		
16)		
17)		
18)		
19)		
20)		

STL RICHLAND

4/9/2007 2:03:16 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

AnalyDueDate: 05/07/2007

Batch: 7099364 **WATER** **pCi/L** **PM, Quote: SA , 57671**
SEQ Batch, Test: None

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:
1 JRQ99-2-AA J7C260198-1-SAMP 03/23/2007 10:12	AmtRec: 20ML,2X500ML,2XLP	#Containers: 5				Scr:	Alpha: 1.24E-03 uCi/Sa	Beta: 3.61E-05 uCi/Sa
2 JRQ99-2-AG-X J7C260198-1-DUP 03/23/2007 10:12	AmtRec: 20ML,2X500ML,2XLP	#Containers: 5				Scr:	Alpha: 1.24E-03 uCi/Sa	Beta: 3.61E-05 uCi/Sa
3 JR2F8-2-AF-B J7C290000-455-BLK 03/23/2007 10:12	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments:

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

JRQ992AA-SAMP Constituent List:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
JR2F82AF-BLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:

JRQ992AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JR2F82AF-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

128

4/9/2007 2:39:11 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/9/2006, 4/14/2007, Batch: '7095245', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7095245						
AC		**CalcC**	**StringerR**	4/5/2007 12:51:11 PM		
SC			StringerR	InCnt1	4/5/2007 12:51:11 PM	RICH-RD-0001 REVISION 3
SC			BlackCL	CalcC	4/6/2007 7:00:43 AM	RICH-RD-0001 REVISION 3
AC			**BlackCL**	4/6/2007 7:00:43 AM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 2

ICOCFractions v4.8.26

STL RICHLAND

3/29/2007 3:46:27 PM

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 05/07/2007 W05145

Batch: 7088455 WATER pCi/L

SEQ Batch, Test: None

Sample Preparation/Analysis

AR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

PM, Quote: SA , 57671

Balance Id: 12445

Pipet #:

Sep1 DT/Tm Tech: 4-2-07 2pm

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:
1 JRQ99-1-AA J7C260198-1-SAMP 03/23/2007 10:12	AmtRec: 20ML,2X500ML,2XLP	#Containers: 5				Scr:	Alpha: 1.24E-03 uCi/Sa	Beta: 3.61E-05 uCi/Sa
2 JRQ99-1-AG-X J7C260198-1-DUP 03/23/2007 10:12	AmtRec: 20ML,2X500ML,2XLP	#Containers: 5				Scr:	Alpha: 1.24E-03 uCi/Sa	Beta: 3.61E-05 uCi/Sa
3 JRRAD-1-AA J7C260198-2-SAMP 03/23/2007 07:45	AmtRec: 20ML,2X500ML,2XLP	#Containers: 5				Scr:	Alpha: -1.73E-04 uCi/Sa	Beta: 4.03E-07 uCi/Sa
4 JRRAE-1-AA J7C260198-3-SAMP 03/23/2007 12:18	AmtRec: 20ML,2X500ML,2XLP	#Containers: 5				Scr:	Alpha: -4.37E-04 uCi/Sa	Beta: 4.33E-04 uCi/Sa
5 JR2F8-1-AA-B J7C290000-455-BLK 03/23/2007 10:12	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
6 JR2F8-1-AC-C J7C290000-455-LCS 03/23/2007 10:12	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
7 JR2F8-1-AD-BX J7C290000-455-MBLK 03/23/2007 10:12	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

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STL RICHLAND

3/29/2007 3:46:34 PM

Sample Preparation/Analysis

AR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 4-2-07 Tm
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 05/07/2007

Batch: 7088455 pCi/L
SEQ Batch, Test: None

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 JR2F8-1-AE-CM J7C290000-455-MLCS 03/23/2007 10:12		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
9 JR2F8-1-AF-BN J7C290000-455-IBLK 03/23/2007 10:12		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
10 JR2F8-1-AG-BN J7C290000-455-IBLK 03/23/2007 10:12		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

JRQ991AA-SAMP Constituent List:

H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20
JR2F81AA-BLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
JR2F81AC-LCS:					
H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20
JR2F81AD-MBLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
JR2F81AE-MLCS:					
H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20
JR2F81AF-IBLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
JR2F81AG-IBLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:

3/29/2007 3:46:38 PM

Sample Preparation/Analysis

AR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 4-2-07 Tom
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 05/07/2007

Batch: 7088455 pCi/L
SEQ Batch, Test: None

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:

```
JRQ991AA-SAMP Calc Info:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
JR2F81AA-BLK:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
JR2F81AC-LCS:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
JR2F81AD-MBLK:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
JR2F81AE-MLCS:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
JR2F81AF-IBLK:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
JR2F81AG-IBLK:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

Approved By _____ Date: _____

4/9/2007 2:22:08 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/9/2006, 4/14/2007, Batch: '7088455', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7088455						
AC		**CalcC**	**McDowellD**	4/2/2007 10:11:28		
SC			wagarr	IsBatched	3/29/2007 3:49:21 PM	ICOC_RADCALC v4.8.26
SC			McDowellD	InSep1	4/2/2007 10:11:28 AM	RICH-RC-5007 REVISION 6
SC			McDowellD	Sep1C	4/2/2007 12:47:21 PM	RICH-RC-5007 REVISION 6
SC			BlackCL	InCnt1	4/2/2007 1:17:13 PM	RICH-RD-0001 REVISION 3
SC			BlackCL	CalcC	4/3/2007 2:03:41 PM	RICH-RD-0001 REVISION 3
AC			**McDowellD**	4/2/2007 12:47:21 PM		
AC			**BlackCL**	4/2/2007 1:17:13 PM		
AC			**BlackCL**	4/3/2007 2:03:41 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.26

STL RICHLAND

4/12/2007 1:07:43 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

DH UNat_Laser PrpRC5015
SS Total Uranium by KPA

Pipet #: _____

AnalyDueDate: 05/04/2007 WO 5145

5I CLIENT: HANFORD

Sep1 DT/Tm Tech:

Batch: 7088450 WATER ug/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7088450 DHSS,

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 JRHM7-1-AA J7C220114-1-SAMP 03/21/2007 11:39		25.40g,in AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: -6.14E-07 uCi/Sa	Beta: 3.11E-06 uCi/Sa
2 JRHNJ-1-AA Warm, use Caution J7C220114-2-SAMP 03/21/2007 10:16		25.30g,in AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: -1.17E-04 uCi/Sa	Beta: 5.86E-04 uCi/Sa 7.7E-02L
3 JRHP7-1-AE J7C220124-1-SAMP 03/21/2007 11:36		25.10g,in AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5			Scr:	Alpha: -1.45E-03 uCi/Sa	Beta: 2.50E-03 uCi/Sa
4 JRMJ9-1-AA J7C230230-1-SAMP 03/22/2007 14:17		25.20g,in AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: 7.82E-05 uCi/Sa	Beta: -5.98E-06 uCi/Sa
5 JRMJ9-1-AC-X J7C230230-1-DUP 03/22/2007 14:17		25.70g,in AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: 7.82E-05 uCi/Sa	Beta: -5.98E-06 uCi/Sa
6 JRMKK-1-AA J7C230230-2-SAMP 03/22/2007 13:46		25.00g,in AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: -1.19E-05 uCi/Sa	Beta: 2.05E-04 uCi/Sa
7 JRMKK-1-AC-S J7C230230-2-MS 03/22/2007 13:46		25.90g,in AmtRec: 20ML,500MLP	UNSF3668 03/28/07,pd 01/23/07,r #Containers: 2			Scr:	Alpha: -1.19E-05 uCi/Sa	Beta: 2.05E-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

STL RICHLAND

4/12/2007 1:07:47 PM

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: 05/04/2007

Sep1 DT/Tm Tech:

Batch: 7088450 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 JRMKN-1-AA J7C230230-3-SAMP 03/22/2007 12:36		25.50g,in AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: -6.97E-05 uCi/Sa	Beta: 3.06E-04 uCi/Sa 1.5E-01L
9 JRMKW-1-AA J7C230230-4-SAMP 03/22/2007 10:57		25.80g,in AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: 5.66E-05 uCi/Sa	Beta: 5.97E-06 uCi/Sa
10 JRML7-1-AE J7C230239-1-SAMP 03/22/2007 13:33		25.60g,in AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5			Scr:	Alpha: -7.99E-04 uCi/Sa	Beta: 1.20E-04 uCi/Sa
11 JRMMK-1-AE J7C230239-2-SAMP 03/22/2007 12:25		25.00g,in AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5			Scr:	Alpha: 5.37E-04 uCi/Sa	Beta: 7.25E-05 uCi/Sa
12 JRQ99-1-AF J7C260198-1-SAMP 03/23/2007 10:12		25.30g,in AmtRec: 20ML,2X500ML,2XLP	#Containers: 5			Scr:	Alpha: 1.24E-03 uCi/Sa	Beta: 3.61E-05 uCi/Sa
13 JRRAD-1-AF J7C260198-2-SAMP 03/23/2007 07:45		26.60g,in AmtRec: 20ML,2X500ML,2XLP	#Containers: 5			Scr:	Alpha: -1.73E-04 uCi/Sa	Beta: 4.03E-07 uCi/Sa
14 JRRAE-1-AF J7C260198-3-SAMP 03/23/2007 12:18		27.00g,in AmtRec: 20ML,2X500ML,2XLP	#Containers: 5			Scr:	Alpha: -4.37E-04 uCi/Sa	Beta: 4.33E-04 uCi/Sa

135

STL RICHLAND

4/12/2007 1:07:48 PM

Sample Preparation/Analysis

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

Balance Id:1120482733
Pipet #: _____

AnalyDueDate: 05/04/2007

Sep1 DT/Tm Tech:

Batch: 7088450 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:
15 JR2FR-1-AA-B J7C290000-450-BLK 03/22/2007 14:17		25.50g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
16 JR2FR-1-AC-C J7C290000-450-LCS 03/22/2007 14:17		25.40g,in AmtRec:	UNSF3669 03/28/07,pd 01/23/07,r #Containers: 1			Scr:	Alpha:	Beta:
17 JR2FR-1-AD-C J7C290000-450-LCS 03/22/2007 14:17		25.10g,in AmtRec:	UNSC1623 04/05/07,pd 04/28/06,r #Containers: 1			Scr:	Alpha:	Beta:

Comments: ~~JRML7-SAMP~~ ""
PH <2.0 JS 4-12-07

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

JRHM71AA-SAMP Constituent List:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
JRMKK1AC-MS:

JR2FR1AA-BLK:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
JR2FR1AC-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20
JR2FR1AD-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20
JRHM71AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JRMKK1AC-MS:

4/12/2007 1:07:53 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 05/04/2007

Sep1 DT/Tm Tech:

Batch: 7088450 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:

Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JR2FR1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JR2FR1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JR2FR1AD-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

4/26/2007 5:19:28 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/26/2006, 5/1/2007, Batch: '7088450 ', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7088450						
AC		Cnt1C	BockJ	4/12/2007 12:54:08		
SC			wagarr	IsBatched	3/29/2007 3:49:21 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	4/12/2007 12:54:08 PM	RICH-RC-5014 Revision 6
SC			BockJ	Prep1C	4/12/2007 1:07:48 PM	RICH-RC-5015 REVISION 4
SC			AshworthA	InPrep2	4/16/2007 10:49:52 AM	RICH-RC-5015 REVISION 4
SC			AshworthA	Prep2C	4/17/2007 2:39:15 PM	RICH-RC-5015 REVISION 4
SC			NelsonT	Cnt1C	4/26/2007 3:53:31 PM	RICH-RC-5058 REV 7
AC			BockJ	4/12/2007 1:07:48 PM		
AC			BockJ	4/12/2007 1:21:09 PM		
AC			AshworthA	4/16/2007 10:49:52		
AC			AshworthA	4/17/2007 2:39:15 PM		
AC			NelsonT	4/26/2007 3:53:31 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.26