RECEIVED FEBRUARY 25, 2008

Analytical Data Package Prepared For

Pacific Northwest National Lab

Radiochemical Analysis By

STL Richland STLRL

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

Data Package Contains _____ Pages

Report Nbr: 35487

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05155	S07-003	B1MDR5	J7D120254-1	JTR2G1AA	9JTR2G10	7107429
		B1MDR5	J7D120254-1	JTR2G1AC	9JTR2G10	7107430
		B1MDR5	J7D120254-1	JTR2G2AD	9JTR2G20	7124264
		B1MF28	J7D120254-2	JTR2J1AA	9JTR2J10	7107450
		B1MF28	J7D120254-2	JTR2J1AC	9JTR2J10	7107427
		B1MF28	J7D120254-2	JTR2J1AE	9JTR2J10	7107426
		B1MF28	J7D120254-2	JTR2J4AD	9JTR2J40	7149507
		B1MF30	J7D120254-3	JTR2P1AA	9JTR2P10	7107450
		B1MF30	J7D120254-3	JTR2P1AC	9JTR2P10	7107427
		B1MF30	J7D120254-3	JTR2P4AD	9JTR2P40	7149507
		B1MF33	J7D120254-4	JTR2Q1AA	9JTR2Q10	7107450
		B1MF33	J7D120254-4	JTR2Q4AC	9JTR2Q40	7149507
		B1MF38	J7D120254-5	JTR2R1AA	9JTR2R10	7107450
		B1MF38	J7D120254-5	JTR2R1AC	9JTR2R10	7107427
		B1MF38	J7D120254-5	JTR2R4AD	9JTR2R40	7149507

Comments:

REVISION 1

Report Nbr: 35487

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05155	A07-004	B1MMF6	J7D120262-1	JTR3K1AA	9JTR3K10	7107454
		B1MMF6	J7D120262-1	JTR3K1AC	9JTR3K10	7107427
		B1MMF6	J7D120262-1	JTR3K1AE	9JTR3K10	7107426
		B1MMF6	J7D120262-1	JTR3K4AD	9JTR3K40	7149507
		B1MMF7	J7D120262-2	JTR3P1AA	9JTR3P10	7107454
		B1MMF7	J7D120262-2	JTR3P1AC	9JTR3P10	7107427
		B1MMF7	J7D120262-2	JTR3P1AE	9JTR3P10	7107426
		B1MMF7	J7D120262-2	JTR3P4AD	9JTR3P40	7149507
		B1MMF8	J7D120262-3	JTR3V1AA	9JTR3V10	7107454
		B1MMF8	J7D120262-3	JTR3V1AC	9JTR3V10	7107427
		B1MMF8	J7D120262-3	JTR3V1AE	9JTR3V10	7107426
		B1MMF8	J7D120262-3	JTR3V4AD	9JTR3V40	7149507
		B1MMF9	J7D120262-4	JTR351AC	9JTR3510	7107426
		B1MMF9	J7D120262-4	JTR354AA	9JTR3540	7149507
	I07-036	B1MMW6	J7D130267-1	JTWVN1AA	9JTWVN10	7107463
		B1MMW6	J7D130267-1	JTWVN1AC	9JTWVN10	7107432
		B1MMW9	J7D130267-2	JTWVP1AA	9JTWVP10	7107463
		B1MMW9	J7D130267-2	JTWVP1AC	9JTWVP10	7107432
		B1MMX3	J7D130267-3	JTWWH1AA	9JTWWH10	7107463
		B1MMX3	J7D130267-3	JTWWH1AC	9JTWWH10	7107432
	S07-004	B1MPW0	J7D130275-1	JTWXG4AA	9JTWXG40	7149507
	W07-004	B1MNW5	J7D130281-1	JTW0C1AA	9JTW0C10	7107430
		B1MNW5	J7D130281-1	JTW0C1AC	9JTW0C10	7107449
		B1MNW5	J7D130281-1	JTW0C1AD	9JTW0C10	7107426
	A07-004	B1MMF3	J7D160185-1	JT1KV1AA	9JT1KV10	7107454
		B1MMF3	J7D160185-1	JT1KV1AC	9JT1KV10	7107427

Comments:

REVISION 1

Report Nbr: 35487

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05155	A07-004	B1MMF3	J7D160185-1	JT1KV1AE	9JT1KV10	7107426
		B1MMF3	J7D160185-1	JT1KV4AD	9JT1KV40	7149507
		B1MMF4	J7D160185-2	JT1K71AA	9JT1K710	7107454
		B1MMF4	J7D160185-2	JT1K71AC	9JT1K710	7107427
		B1MMF4	J7D160185-2	JT1K71AE	9JT1K710	7107426
		B1MMF4	J7D160185-2	JT1K74AD	9JT1K740	7149507
	W07-004	B1MNH9	J7D170104-1	JT13Q1AA	9JT13Q10	7107429
		B1MNH9	J7D170104-1	JT13Q1AC	9JT13Q10	7107430
		B1MNL0	J7D170104-2	JT13V1AA	9JT13V10	7107429
		B1MNL0	J7D170104-2	JT13V1AC	9JT13V10	7107430
		B1MNK1	J7D170104-3	JT1311AA	9JT13110	7107429
		B1MNK1	J7D170104-3	JT1311AC	9JT13110	7107430
		B1MNM0	J7D170104-4	JT1331AA	9JT13310	7107429
		B1MNM0	J7D170104-4	JT1331AC	9JT13310	7107430

REVISION 1

Comments:

REVISION 1

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

May 31, 2007

Attention: Dot Stewart

SAF Number	:	S07-003, A07-004, I07-036, S07-004, W07-004
Date SDG Closed	:	April 13, 2007
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05155
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between April 11, 2007 and April 13, 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#	DATE OF RECEIPT	MATRIX
B1MDR5	JTR2G	4/11/07	WATER
B1MF28	JTR2J	4/11/07	WATER
B1MF30	JTR2P	4/11/07	WATER
B1MF33	JTR2Q	4/11/07	WATER
B1MF38	JTR2R	4/11/07	WATER
B1MMF6	JTR3K	4/11/07	WATER
B1MMF7	JTR3P	4/11/07	WATER
B1MMF8	JTR3V	4/11/07	WATER
B1MMF9	JTR35	4/11/07	WATER
B1MMW6	JTWVN	4/12/07	WATER
B1MMW9	JTWVP	4/12/07	WATER
B1MMX3	JTWWH	4/12/07	WATER
B1MPW0	JTWXG	4/12/07	WATER

Pacific Northwest National Laboratories
May 31, 2007

B1MNW5	JTW0C	4/12/07	WATER
B1MMF3	JT1KV	4/13/07	WATER
B1MMF4	JT1K7	4/13/07	WATER
B1MNH9	JT13Q	4/13/07	WATER
B1MNL0	JT13V	4/13/07	WATER
B1MNK1	JT131	4/13/07	WATER
B1MNM0	JT133	4/13/07	WATER

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
Iodine-129 (LL) by method RICH-RC-5025
Liquid Scintillation Counting
Enriched Tritium by method RICH-RC-5024
Technetium-99 by TEVA method RICH-RC-5065
Technetium-99 by method RICH-RC-5078
Tritium by method RICH-RC-5007
Carbon-14 by method RICH-RC-5022
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.

Pacific Northwest National Laboratories
May 31, 2007

V. Comments

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:
Samples B1MNK1, B1MNM0, B1MNH9 and B1MNH9 (DUP) were analyzed with reduced volumes based on elevated screen results. Except as noted, the LCS, batch blank, samples and sample duplicate (B1MNH9) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:
The LCS, batch blank, samples and sample duplicate (B1MNL0) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006
The LCS, batch blank, samples and sample duplicate (B1MMX3) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec (LL) by method RICH-RC-5017:
The original count for the LCS had a low recovery for C0-60. A recount brought it within limits. Except as note, the LCS, batch blank, samples and sample duplicate (B1MF38) results are within contractual requirements.

Iodine-129 (LL) by method RICH-RC-5025:
The LCS, batch blank, samples and sample duplicate (B1MMF8) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by TEVA method RICH-RC-5065:
The first two analysis the TSIE was out and the results could not be calculated. The samples were run a third time and the TSIE was still out. After consulting the technical director, the samples were shaken well and the vials were wiped with a fabric softener sheet, and recounted. The TSIE was within limits and the samples were calculated with acceptable results. Except as noted, the LCS, batch blank, samples, sample duplicate (B1MF30), and sample matrix spike (B1MF28) results are within contractual requirements.

Technetium-99 by method RICH-RC-5078:
The LCS, batch blank, samples, sample duplicate (B1MNW5), and sample matrix spike (B1MNW5) results are within contractual requirements.

Tritium by method RICH-RC-5007:
The LCS, batch blank, samples and sample duplicate (B1MMF3) results are within contractual requirements.

Enriched Tritium by method RICH-RC-5024

Pacific Northwest National Laboratories
May 31, 2007

On the first count the blank result was above the contractual limit, the sample (B1MDR5) and the sample duplicate (B1MDR5 DUP) did not agree. The entire batch was recounted and the results are within acceptable limits. Except as noted, the LCS, batch blank, samples and sample duplicate (B1MDR5) results are within contractual requirements.

Carbon-14 by method RICH-RC-5022:
The LCS, batch blank, samples and sample duplicate (B1MMW6) results are within contractual requirements.

Total Uranium
Total Uranium by method RICH-RC-5058:
The LCS, batch blank, samples, sample duplicate (B1MMF3), and sample matrix spike (B1MMF4) results are within contractual requirements.

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager, or a designee as verified by the following signature.

Reviewed and approved:

Sherryl A. Adam
Project Manager

Drinking Water Method Cross References

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

Uncertainty Estimation

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

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

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

Report Definitions

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

TAL Richland Report

AMENDED DATA

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35487 File Name: h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.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:
9JT13110	B1MNK1		MW6-SBB-A1	W07-004	W05155					04/13/2007 11:47

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7107429	ALPHA	12587-46-1	1.26E+00	pCi/L	1.2E+00	1.2E+00	U	1.69E+00	100.0	9310_ALPHABETA	1.79E-01	L	05/24/2007 18:26	I
7107430	BETA	12587-47-2	7.58E+00	pCi/L	1.8E+00	2.0E+00		2.73E+00	100.0	9310_ALPHABETA	1.992E-01	L	05/23/2007 16:20	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JT13310	B1MNM0		MW6-SBB-A1	W07-004	W05155					04/13/2007 10:23

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7107429	ALPHA	12587-46-1	2.12E+00	pCi/L	1.4E+00	1.5E+00		1.69E+00	100.0	9310_ALPHABETA	1.799E-01	L	05/24/2007 18:26	I
7107430	BETA	12587-47-2	7.23E+00	pCi/L	1.7E+00	2.0E+00		2.70E+00	100.0	9310_ALPHABETA	1.995E-01	L	05/23/2007 16:20	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JT13Q10	B1MNH9		MW6-SBB-A1	W07-004	W05155					04/13/2007 13:17

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7107429	ALPHA	12587-46-1	1.41E+00	pCi/L	1.2E+00	1.2E+00	U	1.62E+00	100.0	9310_ALPHABETA	1.793E-01	L	05/24/2007 18:26	I
7107430	BETA	12587-47-2	8.17E+00	pCi/L	1.8E+00	2.1E+00		2.67E+00	100.0	9310_ALPHABETA	1.981E-01	L	05/23/2007 16:20	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JT13V10	B1MNL0		MW6-SBB-A1	W07-004	W05155					04/13/2007 09:08

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7107429	ALPHA	12587-46-1	1.18E+00	pCi/L	1.1E+00	1.1E+00	U	1.77E+00	100.0	9310_ALPHABETA	1.995E-01	L	05/24/2007 18:26	I
7107430	BETA	12587-47-2	7.02E+00	pCi/L	1.7E+00	2.0E+00		2.77E+00	100.0	9310_ALPHABETA	1.986E-01	L	05/23/2007 16:20	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JT1K710	B1MMF4		MW6-SBB-A1	A07-004	W05155					04/13/2007 11:47

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7107454	H-3	10028-17-8	4.71E+02	pCi/L	1.4E+02	1.6E+02		2.96E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/09/2007 23:23	I
7107427	I-129L	15046-84-1	5.88E-01	pCi/L	2.0E-01	2.0E-01	U	4.02E-01	100.8	I129LL_SEP_LEPS	3.9486E+00	L	05/24/2007 20:12	I
7107426	Uranium	7440-61-1	3.12E+00	ug/L	3.2E-01	3.2E-01	B	8.55E-02		UTOT_KPA	2.45E-02	ML	05/22/2007 10:45	R

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JT1K740	B1MMF4		MW6-SBB-A1	A07-004	W05155					04/13/2007 11:47

REVISED

REVISION 1

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.

AMENDED DATA

8/7/2007 9:30:23 AM

TAL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35487 File Name: h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7149507	TC-99	14133-76-7	1.47E+00	pCi/L	4.1E+00	5.6E+00	U	9.71E+00	100.0	TC99_ETVDSK_LS	1.27E-01	L	05/30/2007 13:08	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:
9JT1KV10	B1MMF3		MW6-SBB-A1	A07-004	W05155					04/13/2007 13:17

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7107454	H-3	10028-17-8	5.76E+02	pCi/L	1.4E+02	1.6E+02		2.96E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/09/2007 20:39	I
7107427	I-129L	15046-84-1	1.43E+00	pCi/L	4.1E-01	4.1E-01	U	6.36E-01	92.4	I129LL_SEP_LEPS	3.9123E+00	L	05/24/2007 20:11	I
7107426	Uranium	7440-61-1	2.85E+00	ug/L	2.9E-01	2.9E-01	B	8.35E-02		UTOT_KPA	2.51E-02	ML	05/22/2007 10:42	R

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JT1KV40	B1MMF3		MW6-SBB-A1	A07-004	W05155					04/13/2007 13:17

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7149507	TC-99	14133-76-7	-1.25E+00	pCi/L	4.1E+00	5.5E+00	U	9.89E+00	100.0	TC99_ETVDSK_LS	1.252E-01	L	05/30/2007 12:05	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:
9JTR2G10	B1MDR5		MW6-SBB-A1	S07-003	W05155					04/11/2007 11:10

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7107429	ALPHA	12587-46-1	9.07E-01	pCi/L	8.8E-01	9.1E-01	U	1.39E+00	100.0	9310_ALPHABETA	1.986E-01	L	05/24/2007 17:21	I
7107430	BETA	12587-47-2	5.86E+00	pCi/L	1.7E+00	1.8E+00		2.79E+00	100.0	9310_ALPHABETA	1.993E-01	L	05/23/2007 16:20	I

REVISED

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JTR2G20	B1MDR5		MW6-SBB-A1	S07-003	W05155					04/11/2007 11:10

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7124264	H-3	10028-17-8	-1.27E+00	pCi/L	4.1E+00	6.3E+00	U	6.16E+00	100.0	TRITIUM_ELECT_L	1.50E-01	L	05/04/2007 16:48	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:
9JTR2J10	B1MF28		MW6-SBB-A1	S07-003	W05155					04/11/2007 11:10

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7107450	BE-7	13966-02-4	-1.15E+01	pCi/L	2.4E+01	2.4E+01	U	4.12E+01		GAMMALL_GS	2.003E+00	L	05/21/2007 19:54	I
7107450	CO-60	10198-40-0	-3.39E-01	pCi/L	2.2E+00	2.2E+00	U	4.16E+00		GAMMALL_GS	2.003E+00	L	05/21/2007 19:54	I
7107450	CS-134	13967-70-9	-2.73E-01	pCi/L	2.3E+00	2.3E+00	U	4.28E+00		GAMMALL_GS	2.003E+00	L	05/21/2007 19:54	I
7107450	CS-137	10045-97-3	2.48E+00	pCi/L	2.3E+00	2.3E+00	U	4.86E+00		GAMMALL_GS	2.003E+00	L	05/21/2007 19:54	I
7107450	EU-152	14683-23-9	2.98E-01	pCi/L	5.2E+00	5.2E+00	U	9.61E+00		GAMMALL_GS	2.003E+00	L	05/21/2007 19:54	I

REVISION 1

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.

AMENDED DATA

TAL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35487 File Name: h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

7107450	EU-154	15585-10-1	-6.32E-01	pCi/L	7.0E+00	7.0E+00	U	1.34E+01		GAMMALL_GS	2.003E+00	L	05/21/2007	19:54 I
7107450	EU-155	14391-16-3	1.36E+00	pCi/L	4.6E+00	4.6E+00	U	8.61E+00		GAMMALL_GS	2.003E+00	L	05/21/2007	19:54 I
7107450	K-40	13966-00-2	2.57E+01	pCi/L	6.6E+01	6.6E+01	U	3.83E+01		GAMMALL_GS	2.003E+00	L	05/21/2007	19:54 I
~~7107450~~	~~RU-106~~	~~13967-48-1~~	~~-7.77E+00~~	~~pCi/L~~	~~2.1E+01~~	~~2.1E+01~~	U	~~3.61E+01~~		~~GAMMALL_GS~~	~~2.003E+00~~	L	~~05/21/2007~~	~~19:54~~ I
7107450	SB-125	14234-35-6	-4.28E+00	pCi/L	5.1E+00	5.1E+00	U	8.16E+00		GAMMALL_GS	2.003E+00	L	05/21/2007	19:54 I
7107427	I-129L	15046-84-1	3.99E-02	pCi/L	1.2E-01	1.2E-01	U	2.27E-01	98.1	I129LL_SEP_LEPS	3.949E+00	L	05/24/2007	16:31 I
7107426	Uranium	7440-61-1	2.22E+00	ug/L	2.3E-01	2.3E-01	B	8.00E-02		UTOT_KPA	2.62E-02	ML	05/22/2007	10:26 R

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JTR2J40	B1MF28		MW6-SBB-A1	S07-003	W05155					04/11/2007 11:10

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7149507	TC-99	14133-76-7	-6.83E-01	pCi/L	4.2E+00	5.6E+00	U	1.01E+01	100.0	TC99_ETVDSK_LS	1.225E-01	L	05/30/2007 00:36	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:
9JTR2P10	B1MF30		MW6-SBB-A1	S07-003	W05155					04/11/2007 09:50

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7107450	BE-7	13966-02-4	-1.03E+01	pCi/L	1.7E+01	1.7E+01	U	2.82E+01		GAMMALL_GS	1.9996E+00	L	05/21/2007 19:54	I
7107450	CO-60	10198-40-0	2.78E+00	pCi/L	2.1E+00	2.1E+00	U	4.62E+00		GAMMALL_GS	1.9996E+00	L	05/21/2007 19:54	I
7107450	CS-134	13967-70-9	1.02E+00	pCi/L	1.7E+00	1.7E+00	U	3.52E+00		GAMMALL_GS	1.9996E+00	L	05/21/2007 19:54	I
7107450	CS-137	10045-97-3	1.11E+00	pCi/L	1.5E+00	1.5E+00	U	2.97E+00		GAMMALL_GS	1.9996E+00	L	05/21/2007 19:54	I
7107450	EU-152	14683-23-9	-5.76E-01	pCi/L	3.5E+00	3.5E+00	U	6.29E+00		GAMMALL_GS	1.9996E+00	L	05/21/2007 19:54	I
7107450	EU-154	15585-10-1	-4.16E+00	pCi/L	3.6E+00	3.6E+00	U	4.70E+00		GAMMALL_GS	1.9996E+00	L	05/21/2007 19:54	I
7107450	EU-155	14391-16-3	-9.47E-02	pCi/L	3.1E+00	3.1E+00	U	5.53E+00		GAMMALL_GS	1.9996E+00	L	05/21/2007 19:54	I
7107450	K-40	13966-00-2	2.25E+00	pCi/L	3.2E+01	3.2E+01	U	6.80E+01		GAMMALL_GS	1.9996E+00	L	05/21/2007 19:54	I
7107450	RU-106	13967-48-1	1.66E+00	pCi/L	1.4E+01	1.4E+01	U	2.66E+01		GAMMALL_GS	1.9996E+00	L	05/21/2007 19:54	I
7107450	SB-125	14234-35-6	4.30E-01	pCi/L	3.7E+00	3.7E+00	U	6.77E+00		GAMMALL_GS	1.9996E+00	L	05/21/2007 19:54	I
7107427	I-129L	15046-84-1	4.98E-02	pCi/L	1.5E-01	1.5E-01	U	2.83E-01	98.1	I129LL_SEP_LEPS	3.9321E+00	L	05/24/2007 16:34	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:
9JTR2P40	B1MF30		MW6-SBB-A1	S07-003	W05155					04/11/2007 09:50

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7149507	TC-99	14133-76-7	5.65E+02	pCi/L	1.4E+01	4.0E+01		1.02E+01	100.0	TC99_ETVDSK_LS	1.214E-01	L	05/30/2007 02:41	I

REVISED Results

REVISION 1

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.

5/31/2007 2:04:23 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 35487 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.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:
9JTR2Q10	B1MF33		MW6-SBB-A1	S07-003	W05155					04/11/2007 12:35

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7107450	BE-7	13966-02-4	-5.18E+00	pCi/L	2.6E+01	2.6E+01	U	4.47E+01		GAMMALL_GS	2.0014E+00	L	05/21/2007 19:55	I
7107450	CO-60	10198-40-0	-9.27E-01	pCi/L	2.4E+00	2.4E+00	U	4.20E+00		GAMMALL_GS	2.0014E+00	L	05/21/2007 19:55	I
7107450	CS-134	13967-70-9	4.66E-01	pCi/L	2.7E+00	2.7E+00	U	4.94E+00		GAMMALL_GS	2.0014E+00	L	05/21/2007 19:55	I
7107450	CS-137	10045-97-3	-9.35E-01	pCi/L	2.1E+00	2.1E+00	U	3.51E+00		GAMMALL_GS	2.0014E+00	L	05/21/2007 19:55	I
7107450	EU-152	14683-23-9	-1.10E+00	pCi/L	5.7E+00	5.7E+00	U	9.87E+00		GAMMALL_GS	2.0014E+00	L	05/21/2007 19:55	I
7107450	EU-154	15585-10-1	1.65E+00	pCi/L	6.6E+00	6.6E+00	U	1.27E+01		GAMMALL_GS	2.0014E+00	L	05/21/2007 19:55	I
7107450	EU-155	14391-16-3	2.47E+00	pCi/L	5.4E+00	5.4E+00	U	9.80E+00		GAMMALL_GS	2.0014E+00	L	05/21/2007 19:55	I
7107450	K-40	13966-00-2	-6.82E+01	pCi/L	6.3E+01	6.3E+01	U	1.38E+02		GAMMALL_GS	2.0014E+00	L	05/21/2007 19:55	I
7107450	RU-106	13967-48-1	-8.00E+00	pCi/L	2.0E+01	2.0E+01	U	3.47E+01		GAMMALL_GS	2.0014E+00	L	05/21/2007 19:55	I
7107450	SB-125	14234-35-6	-4.72E+00	pCi/L	5.6E+00	5.6E+00	U	9.27E+00		GAMMALL_GS	2.0014E+00	L	05/21/2007 19:55	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:
9JTR2Q40	B1MF33		MW6-SBB-A1	S07-003	W05155					04/11/2007 12:35

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7149507	TC-99	14133-76-7	1.05E+02	pCi/L	6.9E+00	1.2E+01		1.00E+01	100.0	TC99_ETVDSK_LS	1.253E-01	L	05/30/2007 03:44	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:
9JTR2R10	B1MF38		MW6-SBB-A1	S07-003	W05155					04/11/2007 13:42

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7107450	BE-7	13966-02-4	2.46E+00	pCi/L	2.9E+01	2.9E+01	U	5.35E+01		GAMMALL_GS	1.9819E+00	L	05/21/2007 19:56	I
7107450	CO-60	10198-40-0	1.04E+01	pCi/L	4.6E+00	4.6E+00	U	9.61E+00		GAMMALL_GS	1.9819E+00	L	05/21/2007 19:56	I
7107450	CS-134	13967-70-9	1.51E+00	pCi/L	3.0E+00	3.0E+00	U	5.81E+00		GAMMALL_GS	1.9819E+00	L	05/21/2007 19:56	I
7107450	CS-137	10045-97-3	-2.68E-01	pCi/L	2.1E+00	2.1E+00	U	3.87E+00		GAMMALL_GS	1.9819E+00	L	05/21/2007 19:56	I
7107450	EU-152	14683-23-9	-1.37E+00	pCi/L	6.1E+00	6.1E+00	U	1.05E+01		GAMMALL_GS	1.9819E+00	L	05/21/2007 19:56	I
7107450	EU-154	15585-10-1	-1.36E+00	pCi/L	7.3E+00	7.3E+00	U	1.34E+01		GAMMALL_GS	1.9819E+00	L	05/21/2007 19:56	I
7107450	EU-155	14391-16-3	4.15E-01	pCi/L	3.8E+00	3.8E+00	U	6.91E+00		GAMMALL_GS	1.9819E+00	L	05/21/2007 19:56	I
7107450	K-40	13966-00-2	-5.15E+01	pCi/L	4.7E+01	4.7E+01	U	1.00E+02		GAMMALL_GS	1.9819E+00	L	05/21/2007 19:56	I
7107450	RU-106	13967-48-1	7.28E+00	pCi/L	2.1E+01	2.1E+01	U	4.04E+01		GAMMALL_GS	1.9819E+00	L	05/21/2007 19:56	I
7107450	SB-125	14234-35-6	-1.63E+00	pCi/L	5.4E+00	5.4E+00	U	9.41E+00		GAMMALL_GS	1.9819E+00	L	05/21/2007 19:56	I
7107427	I-129L	15046-84-1	-1.41E-02	pCi/L	1.1E-01	1.1E-01	U	2.08E-01	100.5	I129LL_SEP_LEPS	3.9048E+00	L	05/24/2007 16:34	I

REVISION 1

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.

AMENDED DATA

8/7/2007 9:30:23 AM

TAL Richland Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 35487 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.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:
9JTR2R40	B1MF38		MW6-SBB-A1	S07-003	W05155					04/11/2007 13:42

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7149507	TC-99	14133-76-7	2.75E+03	pCi/L	2.8E+01	1.7E+02		9.89E+00	100.0	TC99_ETVDSK_LS	1.264E-01	L	05/30/2007 04:46	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:
9JTR3510	B1MMF9		MW6-SBB-A1	A07-004	W05155					04/11/2007 09:51

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7107426	Uranium	7440-61-1	3.53E+00	ug/L	3.6E-01	3.6E-01	B	8.12E-02		UTOT_KPA	2.58E-02	ML	05/22/2007 10:38	R

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JTR3540	B1MMF9		MW6-SBB-A1	A07-004	W05155					04/11/2007 09:51

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7149507	TC-99	14133-76-7	3.62E+00	pCi/L	4.2E+00	5.7E+00	U	9.83E+00	100.0	TC99_ETVDSK_LS	1.261E-01	L	05/30/2007 08:57	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:
9JTR3K10	B1MMF6		MW6-SBB-A1	A07-004	W05155					04/11/2007 08:58

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7107454	H-3	10028-17-8	6.16E+02	pCi/L	1.5E+02	1.6E+02		2.96E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/09/2007 16:34	I
7107427	I-129L	15046-84-1	2.45E+00	pCi/L	4.6E-01	4.6E-01		2.70E-01	99.7	I129LL_SEP_LEPS	3.8719E+00	L	05/24/2007 18:16	I
7107426	Uranium	7440-61-1	3.08E+00	ug/L	3.2E-01	3.2E-01	B	8.06E-02		UTOT_KPA	2.60E-02	ML	05/22/2007 10:28	R

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JTR3K40	B1MMF6		MW6-SBB-A1	A07-004	W05155					04/11/2007 08:58

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7149507	TC-99	14133-76-7	3.91E+00	pCi/L	4.2E+00	5.8E+00	U	9.89E+00	100.0	TC99_ETVDSK_LS	1.261E-01	L	05/30/2007 05:49	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:
9JTR3P10	B1MMF7		MW6-SBB-A1	A07-004	W05155					04/11/2007 12:06

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7107454	H-3	10028-17-8	1.60E+02	pCi/L	1.3E+02	1.4E+02	U	2.96E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/09/2007 17:56	I
7107427	I-129L	15046-84-1	6.90E-01	pCi/L	2.3E-01	2.3E-01	U	4.26E-01	98.6	I129LL_SEP_LEPS	3.9342E+00	L	05/24/2007 18:19	I
7107426	Uranium	7440-61-1	3.12E+00	ug/L	3.2E-01	3.2E-01	B	7.85E-02		UTOT_KPA	2.67E-02	ML	05/22/2007 10:30	R

REVISED Rpt

REVISION 1

14

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.

AMENDED DATA

8/7/2007 9:30:23 AM

TAL Richland Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 35487 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.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:
9JTR3P40	B1MMF7		MW6-SBB-A1	A07-004	W05155					04/11/2007 12:06

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7149507	TC-99	14133-76-7	4.81E+00	pCi/L	4.3E+00	5.8E+00	U	9.93E+00	100.0	TC99_ETVDSK_LS	1.252E-01	L	05/30/2007 06:52	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:
9JTR3V10	B1MMF8		MW6-SBB-A1	A07-004	W05155					04/11/2007 10:51

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7107454	H-3	10028-17-8	2.45E+02	pCi/L	1.3E+02	1.5E+02	U	2.97E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/09/2007 19:18	I
7107427	I-129L	15046-84-1	5.88E-01	pCi/L	2.9E-01	2.9E-01	U	4.50E-01	100.0	I129LL_SEP_LEPS	3.922E+00	L	05/24/2007 18:20	I
7107426	Uranium	7440-61-1	2.45E+00	ug/L	2.5E-01	2.5E-01	B	8.73E-02		UTOT_KPA	2.40E-02	ML	05/22/2007 10:35	R

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JTR3V40	B1MMF8		MW6-SBB-A1	A07-004	W05155					04/11/2007 10:51

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7149507	TC-99	14133-76-7	-2.89E+00	pCi/L	4.0E+00	5.4E+00	U	9.90E+00	100.0	TC99_ETVDSK_LS	1.25E-01	L	05/30/2007 07:54	I

REVISED

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JTW0C10	B1MNW5		MW6-SBB-A1	W07-004	W05155					04/12/2007 12:21

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7107430	BETA	12587-47-2	1.23E+01	pCi/L	2.1E+00	2.6E+00		2.80E+00	100.0	9310_ALPHABETA	2.004E-01	L	05/23/2007 16:20	I
7107449	TC-99	14133-76-7	1.52E+01	pCi/L	4.8E+00	7.0E+00		1.05E+01	100.0	TC99_SEP_LSC	1.251E-01	L	05/01/2007 21:40	I
7107426	Uranium	7440-61-1	3.65E+00	ug/L	3.7E-01	3.7E-01	B	7.79E-02		UTOT_KPA	2.69E-02	ML	05/22/2007 10:40	R

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JTWVN10	B1MMW6		MW6-SBB-A1	I07-036	W05155					04/12/2007 13:04

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7107463	C-14	14762-75-5	4.44E+03	pCi/L	3.4E+01	5.1E+02		8.19E+00	100.0	C14_LSC	2.00E-01	L	04/24/2007 02:42	I
7107432	SR-90	10098-97-2	2.59E-01	pCi/L	1.8E-01	1.9E-01	U	3.41E-01	76.3	SRISO_SEP_PRE	1.0065E+00	L	05/16/2007 06:45	I

REVISION 1

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JTWVP10	B1MMW9		MW6-SBB-A1	I07-036	W05155					04/12/2007 12:43

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7107463	C-14	14762-75-5	8.89E+01	pCi/L	5.8E+00	1.6E+01		8.19E+00	100.0	C14_LSC	2.00E-01	L	04/24/2007 04:07	I

15

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

STL Richland Report

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35487 File Name: h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

7107432	SR-90	10098-97-2	3.48E-03	pCi/L	1.4E-01	1.4E-01	U	3.26E-01	84.2	SRISO_SEP_PRE	1.0035E+00	L	05/16/2007	06:45 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:
9JTWWH10	B1MMX3		MW6-SBB-A1	I07-036	W05155					04/12/2007 12:25

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7107463	C-14	14762-75-5	7.64E+01	pCi/L	5.5E+00	1.5E+01		8.19E+00	100.0	C14_LSC	2.00E-01	L	04/24/2007 04:49	I
7107432	SR-90	10098-97-2	1.06E-01	pCi/L	1.7E-01	1.8E-01	U	3.74E-01	75.5	SRISO_SEP_PRE	1.0058E+00	L	05/16/2007 06:45	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:
9JTWXG40	B1MPW0		MW6-SBB-A1	S07-004	W05155					04/12/2007 13:04

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7149507	TC-99	14133-76-7	2.08E+01	pCi/L	4.8E+00	6.8E+00		9.84E+00	100.0	TC99_ETVDSK_LS	1.253E-01	L	05/30/2007 10:00	I

REVISION 1

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.

Thursday, May 31, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id: JT3151AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05155 35487
Matrix: WATER WATER
QC Type: BLK

Collection Date: 04/12/2007 12:25
Sample On Date:
Received Date: 04/12/2007

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
7107432	SR-90	2.50E-01	pCi/L	2.3E-01	U	4.42E-01	66.0		SRISO_SEP_P	1.0025E+00	05/16/2007				D
BLK	10098-97-2			2.3E-01						L	06:45				

REVISION 1

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.

AMENDED DATA

Tuesday, August 07, 2007

TAL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JT31E1AB	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/13/2007 13:17
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 04/13/2007

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
7107426	Uranium	3.72E+00	ug/L	3.8E-01	B	8.12E-02			UTOT_KPA	2.58E-02	05/22/2007				D
BLK	7440-61-1			3.8E-01						ML	10:21				

REVISED
RL Davis
3/26/08

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REVISION 1

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.

Thursday, May 31, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JT31L1AB	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/11/2007 10:51
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 04/11/2007

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
7107427	I-129L	5.37E-02	pCi/L	1.3E-01	U	2.50E-01	98.1		I129LL_SEP_L	3.9502E+00	05/25/2007				
BLK	15046-84-1			1.3E-01						L	08:07				D

REVISION 1

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.

Thursday, May 31, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JT31T1AB	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/13/2007 13:17
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 04/13/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
7107429	ALPHA	1.86E-01	pCi/L	3.7E-01	U	8.07E-01	100.0		9310_ALPHAB	2.008E-01	05/24/2007				D
BLK	12587-46-1			3.7E-01						L	19:31				

REVISION 1

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.

Thursday, May 31, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JT31X1AB	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/13/2007 09:08
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**BLK**		**Received Date:** 04/13/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
7107430	BETA	1.14E+00	pCi/L	1.1E+00	U	2.30E+00	100.0		9310_ALPHAB	2.018E-01	05/23/2007				D
BLK	12587-47-2			1.1E+00						L	16:20				

REVISION 1

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
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Thursday, May 31, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JT3301AB	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/12/2007 13:04
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 04/12/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
7107463	C-14	-2.00E+00	pCi/L	6.5E+00	U	8.19E+00	100.0		C14_LSC	2.00E-01	04/24/2007				D
BLK	14762-75-5			3.3E+00						L	01:16				

REVISION 1

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.

Thursday, May 31, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JT33A1AB	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/12/2007 12:21
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**BLK**		**Received Date:** 04/12/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
7107449	TC-99	5.48E+00	pCi/L	6.4E+00	U	1.05E+01	100.0		TC99_SEP_LS	1.266E-01	05/02/2007				D
BLK	14133-76-7			4.5E+00						L	00:47				

REVISION 1

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.

Thursday, May 31, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JT33E1AB	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/11/2007 13:42
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 04/11/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
7107450	BE-7	-3.32E+00	pCi/L	2.9E+01	U	5.15E+01			GAMMALL_GS	1.8972E+00	05/21/2007				D
BLK	13966-02-4			2.9E+01						L	19:57				
7107450	CO-60	-1.31E+00	pCi/L	2.7E+00	U	4.76E+00			GAMMALL_GS	1.8972E+00	05/21/2007				D
BLK	10198-40-0			2.7E+00						L	19:57				
7107450	CS-134	-1.13E+00	pCi/L	2.5E+00	U	4.38E+00			GAMMALL_GS	1.8972E+00	05/21/2007				D
BLK	13967-70-9			2.5E+00						L	19:57				
7107450	CS-137	-2.45E+00	pCi/L	2.8E+00	U	4.39E+00			GAMMALL_GS	1.8972E+00	05/21/2007				D
BLK	10045-97-3			2.8E+00						L	19:57				
7107450	EU-152	1.86E+00	pCi/L	5.8E+00	U	1.08E+01			GAMMALL_GS	1.8972E+00	05/21/2007				D
BLK	14683-23-9			5.8E+00						L	19:57				
7107450	EU-154	-5.32E+00	pCi/L	7.9E+00	U	1.33E+01			GAMMALL_GS	1.8972E+00	05/21/2007				D
BLK	15585-10-1			7.9E+00						L	19:57				
7107450	EU-155	1.33E+00	pCi/L	5.0E+00	U	9.03E+00			GAMMALL_GS	1.8972E+00	05/21/2007				D
BLK	14391-16-3			5.0E+00						L	19:57				
7107450	K-40	6.62E+01	pCi/L	5.7E+01		4.82E+01			GAMMALL_GS	1.8972E+00	05/21/2007				D
BLK	13966-00-2			5.7E+01						L	19:57				
7107450	RU-106	-1.38E+01	pCi/L	2.1E+01	U	3.45E+01			GAMMALL_GS	1.8972E+00	05/21/2007				D
BLK	13967-48-1			2.1E+01						L	19:57				
7107450	SB-125	3.40E+00	pCi/L	6.5E+00	U	1.24E+01			GAMMALL_GS	1.8972E+00	05/21/2007				D
BLK	14234-35-6			6.5E+00						L	19:57				

REVISION 1

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.

Thursday, May 31, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JT33Q1AB	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/13/2007 13:17
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**BLK**		**Received Date:** 04/13/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CB	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
7107454	H-3	-5.30E+01	pCi/L	1.3E+02	U	2.96E+02	100.0		906.0_H3_LSC	5.00E-03	05/09/2007				D
BLK	10028-17-8			1.2E+02						L	11:07				

REVISION 1

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.

Thursday, May 31, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JT33Q1DX	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/13/2007 13:17
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 04/13/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CD	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
7107454	H-3	2.67E+01	pCi/L	1.4E+02	U	3.00E+02	100.0		906.0_H3_LSC	5.00E-03	05/09/2007				D
BLK	10028-17-8			1.2E+02						L	13:51				

REVISION 1

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.

Thursday, May 31, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JT33X2AB	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/11/2007 11:10
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 04/11/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CF	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
7124264	H-3	3.35E+00	pCi/L	7.0E+00	U	6.20E+00	100.0		TRITIUM_ELE	1.50E-01	05/04/2007				D
BLK	10028-17-8			4.9E+00						L	14:13				

REVISION 1

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.

Thursday, May 31, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JXPPX2AB	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/11/2007 11:10
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 04/11/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CQ	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
7149507	TC-99	-2.41E+00	pCi/L	5.4E+00	U	9.88E+00	100.0		TC99_ETVDSK	1.2569E-01	05/30/2007				D
BLK	14133-76-7			4.0E+00						L	14:11				

REVISION 1

Thursday, May 31, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id: JT3151CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05155 35487
Matrix: WATER WATER
QC Type: BS

Collection Date: 04/12/2007 12:25
Sample On Date:
Received Date: 04/12/2007

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
7107432	SR-90	1.49E+01	pCi/L	2.4E+00		3.93E-01	71.0	1.38E+01	SRISO_SEP_P	9.999E-01	05/16/2007			70	D
BS	10098-97-2			8.3E-01				107.5		L	06:45			130	

REVISION 1

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.

AMENDED DATA

Tuesday, August 07, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JT31E1CS	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/13/2007 13:17
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 04/13/2007

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
7107426	Uranium	3.48E+01	ug/L	4.1E+00	B	8.03E-02		3.47E+01	UTOT_KPA	2.61E-02	05/22/2007			70	D
BS	7440-61-1			4.1E+00				100.3		ML	10:22			130	

REVISED
RLD 8/31/05

30

REVISION 1

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.

AMENDED DATA

Tuesday, August 07, 2007

TAL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JT31E1DS	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/13/2007 13:17
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 04/13/2007

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
7107426	Uranium	3.43E+00	ug/L	3.5E-01	B	8.19E-02		3.53E+00	UTOT_KPA	2.56E-02	05/22/2007			70	D
BS	7440-61-1			3.5E-01				97.4		ML	10:24			130	

REVISED
Rdayes
2/28/08

31

REVISION 1

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.

Thursday, May 31, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JT31L1CS	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/11/2007 10:51
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 04/11/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
7107427	I-129L	7.89E+00	pCi/L	1.1E+00		3.90E-01	101.1	1.02E+01	I129LL_SEP_L	3.7718E+00	05/25/2007			70	D
BS	15046-84-1			1.1E+00				77.6		L	08:10			130	

REVISION 1

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.

Thursday, May 31, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JT31T1CS	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/13/2007 13:17
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 04/13/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
7107429	ALPHA	1.95E+01	pCi/L	5.3E+00		9.15E-01	100.0	2.30E+01	9310_ALPHAB	1.991E-01	05/24/2007			70	D
BS	12587-46-1			2.9E+00				84.8		L	19:31			130	

REVISION 1

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.

Thursday, May 31, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JT31X1CS	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/13/2007 09:08
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 04/13/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
7107430	BETA	2.28E+01	pCi/L	4.0E+00		2.53E+00	100.0	2.27E+01	9310_ALPHAB	1.997E-01	05/23/2007			70	D
BS	12587-47-2			2.4E+00				100.5		L	16:20			130	

REVISION 1

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.

Thursday, May 31, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JT3301CS	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/12/2007 13:04
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 04/12/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
7107463	C-14	3.92E+01	pCi/L	1.1E+01		8.19E+00	100.0	4.60E+01	C14_LSC	2.00E-01	04/24/2007			70	D
BS	14762-75-5			4.6E+00				85.2		L	01:59			130	

REVISION 1

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.

Thursday, May 31, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JT33A1CS	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/12/2007 12:21
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 04/12/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
7107449	TC-99	4.62E+02	pCi/L	3.3E+01		1.05E+01	100.0	5.35E+02	TC99_SEP_LS	1.254E-01	05/02/2007			70	D
BS	14133-76-7			1.3E+01				86.3		L	01:50			130	

REVISION 1

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.

Thursday, May 31, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JT33E2CS	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/11/2007 13:42
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 04/11/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
7107450	CO-60	3.59E+01	pCi/L	7.0E+00		3.76E+00		3.75E+01	GAMMALL_GS	1.9977E+00	05/24/2007			75	D
BS	10198-40-0			7.0E+00				95.8		L	14:44			125	
7107450	CS-137	2.59E+01	pCi/L	5.6E+00		4.08E+00		2.48E+01	GAMMALL_GS	1.9977E+00	05/24/2007			70	D
BS	10045-97-3			5.6E+00				104.6		L	14:44			130	
7107450	EU-152	6.62E+01	pCi/L	1.6E+01		1.07E+01		7.65E+01	GAMMALL_GS	1.9977E+00	05/24/2007			70	D
BS	14683-23-9			1.6E+01				86.6		L	14:44			130	

REVISION 1

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.

Thursday, May 31, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JT33Q1CS	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/13/2007 13:17
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 04/13/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CC	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
7107454	H-3	2.46E+03	pCi/L	2.4E+02		2.96E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	05/09/2007			70	D
BS	10028-17-8			2.0E+02				90.4		L	12:29			130	

REVISION 1

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.

Thursday, May 31, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id: JT33Q1EM
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05155 35487
Matrix: WATER WATER
QC Type: BS

Collection Date: 04/13/2007 13:17
Sample On Date:
Received Date: 04/13/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CE	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
7107454	H-3	2.78E+03	pCi/L	2.6E+02		3.00E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	05/09/2007			70	D
BS	10028-17-8			2.1E+02				102.4		L	15:13			130	

REVISION 1

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.

Thursday, May 31, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JT33X2CS	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/11/2007 11:10
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 04/11/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CG	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
7124264	H-3	3.99E+02	pCi/L	7.1E+01		6.18E+00	100.0	4.48E+02	TRITIUM_ELE	1.50E-01	05/04/2007			70	D
BS	10028-17-8			1.7E+01				89.2		L	15:31			130	

REVISION 1

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.

Thursday, May 31, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JXPPX2CS	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/11/2007 11:10
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 04/11/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CR	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
7149507	TC-99	4.39E+02	pCi/L	3.2E+01		9.73E+00	100.0	5.33E+02	TC99_ETVDSK	1.251E-01	05/30/2007			70	D
BS	14133-76-7			1.2E+01				82.2		L	15:14			130	

REVISION 1

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.

Thursday, May 31, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JT13Q1DR	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/13/2007 13:17
Client Id:	B1MNH9	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 04/13/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-004	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
7107429	ALPHA	2.34E+00	pCi/L	1.6E+00		1.77E+00	100.0		9310_ALPHAB	1.796E-01	05/24/2007	49.6	0.8		D
DUP	12587-46-1	1.41E+00		1.5E+00						L	18:26	20.0	3		

REVISION 1

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
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B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, May 31, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JT13V1DR	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/13/2007 09:08
Client Id:	B1MNL0	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 04/13/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-004	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
7107430	BETA	7.62E+00	pCi/L	2.0E+00		2.73E+00	100.0		9310_ALPHAB	2.01E-01	05/23/2007	8.3	0.4		D
DUP	12587-47-2	7.02E+00		1.8E+00						L	16:20	20.0	3		

REVISION 1

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.

AMENDED DATA

Tuesday, August 07, 2007

TAL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JT1KV1FR	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/13/2007 13:17
Client Id:	B1MMF3	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 04/13/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A07-004	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
7107426	Uranium	2.86E+00	ug/L	2.9E-01	B	8.03E-02			UTOT_KPA	2.61E-02	05/22/2007	.5	0.1		D
DUP	7440-61-1	2.85E+00		2.9E-01						ML	10:44	20.0	3		

REVISED
RL Dlyes
3/26/08

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REVISION 1

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
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B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, May 31, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JT1KV1GR	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/13/2007 13:17
Client Id:	B1MMF3	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 04/13/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A07-004	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
7107454	H-3	6.73E+02	pCi/L	1.7E+02		2.96E+02	100.0		906.0_H3_LSC	5.00E-03	05/09/2007	15.6	0.8		D
DUP	10028-17-8	5.76E+02		1.5E+02						L	22:01	20.0	3		

REVISION 1

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.

Thursday, May 31, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JTR2G2ER	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/11/2007 11:10
Client Id:	B1MDR5	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 04/11/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-003	MW6-SBB-A19981								CH	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
7124264	H-3	4.67E+00	pCi/L	6.7E+00	U	6.19E+00	100.0		TRITIUM_ELE	1.5001E-01	05/04/2007	349.3	1.2		D
DUP	10028-17-8	-1.27E+00		4.5E+00						L	18:06	20.0	3		

REVISION 1

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.

Thursday, May 31, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JTR2P2ER	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/11/2007 09:50
Client Id:	B1MF30	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 04/11/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-003	MW6-SBB-A19981								CJ	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
7149507	TC-99	5.64E+02	pCi/L	3.9E+01		1.00E+01	100.0		TC99_ETVDSK	1.231E-01	05/30/2007	.2	0.		D
DUP	14133-76-7	5.65E+02		1.3E+01						L	01:39	20.0	3		

REVISION 1

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.

Thursday, May 31, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id: JTR2R1ER
Client Id: B1MF38
Moisture/Solids%*:

Sdg/Rept Nbr: W05155 35487
Matrix: WATER WATER
QC Type: DUP

Collection Date: 04/11/2007 13:42
Sample On Date:
Received Date: 04/11/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-003	MW6-SBB-A19981								CK	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
7107450	BE-7	-2.07E+01	pCi/L	2.1E+01	U	3.42E+01			GAMMALL_GS	1.9769E+00 L	05/21/2007 19:56	0.0 20.0	1.5 3		D
DUP	13966-02-4	2.46E+00		2.1E+01											
7107450	CO-60	6.40E+00	pCi/L	3.2E+00	U	7.48E+00			GAMMALL_GS	1.9769E+00 L	05/21/2007 19:56	48.0 20.0	1.8 3		D
DUP	10198-40-0	1.04E+01		3.2E+00											
7107450	CS-134	1.35E-01	pCi/L	2.1E+00	U	4.09E+00			GAMMALL_GS	1.9769E+00 L	05/21/2007 19:56	167.3 20.0	0.9 3		D
DUP	13967-70-9	1.51E+00		2.1E+00											
7107450	CS-137	3.85E-01	pCi/L	2.0E+00	U	3.88E+00			GAMMALL_GS	1.9769E+00 L	05/21/2007 19:56	1114.3 20.0	0.5 3		D
DUP	10045-97-3	-2.68E-01		2.0E+00											
7107450	EU-152	2.06E-01	pCi/L	5.2E+00	U	9.34E+00			GAMMALL_GS	1.9769E+00 L	05/21/2007 19:56	0.0 20.0	0.4 3		D
DUP	14683-23-9	-1.37E+00		5.2E+00											
7107450	EU-154	7.29E-01	pCi/L	4.0E+00	U	8.99E+00			GAMMALL_GS	1.9769E+00 L	05/21/2007 19:56	0.0 20.0	0.7 3		D
DUP	15585-10-1	-1.36E+00		4.0E+00											
7107450	EU-155	1.71E+00	pCi/L	3.7E+00	U	6.80E+00			GAMMALL_GS	1.9769E+00 L	05/21/2007 19:56	122.0 20.0	0.5 3		D
DUP	14391-16-3	4.15E-01		3.7E+00											
7107450	K-40	2.94E+00	pCi/L	2.9E+01	U	6.55E+01			GAMMALL_GS	1.9769E+00 L	05/21/2007 19:56	0.0 20.0	2.6 3		D
DUP	13966-00-2	-5.15E+01		2.9E+01											
7107450	RU-106	2.25E-01	pCi/L	1.7E+01	U	3.15E+01			GAMMALL_GS	1.9769E+00 L	05/21/2007 19:56	188.0 20.0	0.6 3		D
DUP	13967-48-1	7.28E+00		1.7E+01											
7107450	SB-125	7.08E-01	pCi/L	5.4E+00	U	9.78E+00			GAMMALL_GS	1.9769E+00 L	05/21/2007 19:56	0.0 20.0	0.6 3		D
DUP	14234-35-6	-1.63E+00		5.4E+00											

REVISION 1

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.

Thursday, May 31, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JTR3V1FR	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/11/2007 10:51
Client Id:	B1MMF8	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 04/11/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A07-004	MW6-SBB-A19981								CL	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
7107427	I-129L	8.51E-01	pCi/L	2.9E-01	U	4.85E-01	94.6		I129LL_SEP_L	3.9277E+00	05/24/2007	36.7	1.3		D
DUP	15046-84-1	5.88E-01		2.9E-01						L	20:08	20.0	3		

REVISION 1

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
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Thursday, May 31, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JTW0C1FR	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/12/2007 12:21
Client Id:	B1MNW5	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 04/12/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-004	MW6-SBB-A19981								CN	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
7107449	TC-99	1.55E+01	pCi/L	7.0E+00		1.05E+01	100.0		TC99_SEP_LS	1.252E-01	05/01/2007	2.4	0.1		D
DUP	14133-76-7	1.52E+01		4.8E+00						L	23:45	20.0	3		

REVISION 1

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
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B Qual- Analyte was found in the associated laboratory blank above the MDC.

Thursday, May 31, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JTWVN1DR	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/12/2007 13:04
Client Id:	B1MMW6	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 04/12/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-036	MW6-SBB-A19981								CO	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
7107463	C-14	4.18E+03	pCi/L	4.8E+02		8.19E+00	100.0		C14_LSC	2.00E-01	04/24/2007	6.1	0.8		D
DUP	14762-75-5	4.44E+03		3.3E+01						L	03:24	20.0	3		

REVISION 1

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.

Thursday, May 31, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JTWWH1DR	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/12/2007 12:25
Client Id:	B1MMX3	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 04/12/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-036	MW6-SBB-A19981								CP	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
7107432	SR-90	2.49E-02	pCi/L	1.3E-01	U	2.83E-01	87.4		SRISO_SEP_P	1.0071E+00	05/16/2007	123.9	0.9		D
DUP	10098-97-2	1.06E-01		1.3E-01						L	06:45	20.0	3		

REVISION 1

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.

AMENDED DATA

Tuesday, August 07, 2007

TAL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JT1K71FW	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/13/2007 11:47
Client Id:	B1MMF4	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	MS		**Received Date:** 04/13/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A07-004	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
7107426	Uranium	3.51E+01	ug/L	4.5E+00	B	7.91E-02		3.46E+01	UTOT_KPA	2.65E-02	05/22/2007			60	D
MS	7440-61-1			4.5E+00				101.5		ML	10:47			140	

REVISED
Reviewed
3/26/08

53

REVISION 1

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.

Thursday, May 31, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JTR2J2FW	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/11/2007 11:10
Client Id:	B1MF28	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**MS**		**Received Date:** 04/11/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-003	MW6-SBB-A19981								CI	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
7149507	TC-99	3.51E+03	pCi/L	2.2E+02		1.04E+01	100.0	3.77E+03	TC99_ETVDSK	1.194E-01	05/29/2007			60	D
MS	14133-76-7			3.3E+01				93.2		L	23:33			140	

REVISION 1

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
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Thursday, May 31, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05155.Edd, h:\Reportdb\edd\FeadIV\Rad\35487.Edd

Lab Sample Id:	JTW0C1EW	**Sdg/Rept Nbr:**	W05155	35487	**Collection Date:** 04/12/2007 12:21
Client Id:	B1MNW5	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**MS**		**Received Date:** 04/12/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-004	MW6-SBB-A19981								CM	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
7107449	TC-99	3.16E+03	pCi/L	1.9E+02		1.04E+01	100.0	3.57E+03	TC99_SEP_LS	1.258E-01	05/01/2007			60	D
MS	14133-76-7			3.1E+01				88.3		L	22:42			140	

REVISION 1

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: J7D170104,J7D120254; 05/29/2007
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 7107429; RALPHA-A Alpha by GPC-Am
SDG, Matrix: W05155; 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 => JT13Q1AA 179.30<200.00 JT1311AA 179.00<200.00 JT1331AA 179.90<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. RPD > UCL : 20.0=> JT13Q1AD ALPHA 50.0 (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 => JT1331AA ALPHA 2.1E+00 L:1.7E+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	✓		

REVISION 1

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 5/25/07

REVISION 1

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 710729
W05155

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 Adams Date: 5-25-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

REVISION 1

5/24/2007 1:54:21 PM

Lot No., Due Date: J7D170104,J7D120254,J7D130281; 05/28/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7107430; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05155; 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 John Morton **Date** 5-24-7

REVISION 1

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7107430
W05155

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 Adams Date: 5-24-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

REVISION 1

5/24/2007 2:22:21 PM

Lot No., Due Date: J7D130267; 05/28/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7107432; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05155; 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 Tina Antonsen **Date** 5/24/07

REVISION 1

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7107432
W05155

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: 5-24-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

REVISION 1

5/25/2007 9:19:31 AM

Lot No., Due Date: J7D120254; 05/29/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7107450; RGAMMA Gamma by GER

SDG, Matrix: W05155; 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:
NCM 10-09967

First Level Review Lisa Gustafson **Date** 5/25/07

REVISION 1

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 710 7450
W05155

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 NCM

Second Level Review: Cheryl A Adam Date: 5-25-07

REVISION 1

Clouseau Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: **10-09967**
NCM Initiated By: Lisa Antonson
Date Opened: 05/25/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Gamma by GER
Lot #'s (Sample #'s): J7D120254 (2,3,4,5), J7D170000 (450),
QC Batches: 7107450

Nonconformance: LCS result out of limits
Subcategory: Analyte was recovered low in the LCS

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	05/25/2007	In this Gamma batch, the original count for the LCS was recovered low for Co-60. A recount brought it within limits.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	05/25/2007	Sample was recounted.

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: 5/25/2007

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

REVISION 1

5/29/2007 10:24:03 AM

Lot No., Due Date: J7D160185,J7D120254,J7D120262; 05/29/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7107427; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05155; WATER

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

6.0 Comments on any No response:

First Level Review Lisa Antonson **Date** 5/29/07

REVISION 1

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7107427
W05155

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. Adams Date: 5-29-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

REVISION 1

5/31/2007 9:42:12 AM

Lot No., Due Date: J7D160185,J7D120254,J7D120262,J7D130275; 05/29/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7149507; RTC99 Tc-99 by LSC

SDG, Matrix: W05155; 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 => JTR2J2AF 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!			✓

OK LMA 5/31/07

REVISION 1

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

8.3 Comments: NCM # 16-10024

First Level Review Lisa Anderson Date 5/31/07

REVISION 1

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7149507
W05155

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 NCM

Second Level Review: Sheryl A Klein Date: 5-31-07

REVISION 1

Clouseau Nonconformance Memo

STL

NCM #: **10-10004**
NCM Initiated By: Lisa Antonson
Date Opened: 05/31/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Tc-99 by LSC
Lot #'s (Sample #'s): J7D120254 (2,3,4,5), J7D120262 (1,2,3,4), J7D130275 (1), J7D160185 (1,2), J7E250000 (214),
QC Batches: 7149507,

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

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	05/31/2007	This Tc99 batch was run three times. The first two times (7107444 and 7135412) the TSIE was out and it could not be calculated. The samples were run the third time and the TSIE was still out. After consulting technical director, the samples were shaken well and the vials were wiped with a fabric softener sheet, and recounted. The TSIE was within limits and the samples were calculated with good results. Data accepted.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	05/31/2007	The samples were rerun, then recounted after shaking and wiping with fabric softener sheet.

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: 5/31/2007

Lot No., Due Date: J7D130281; 05/28/2007
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 7107449; RTC99 Tc-99 by LSC
SDG, Matrix: W05155; 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 => JTW0C1AE 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. RPD > UCL : 20.0=> JTW0C1AF TC-99 23.0 (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!			✓

OK LMA 5/15/07

5/15/07 OK LMA

8.26 Instruments have Current Calibrations. REVISION 1 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 _____ **Date** _____

REVISION 1

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7107449

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: Jodie G Date: 5/16/07

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

REVISION 1

5/11/2007 4:59:53 PM

Lot No., Due Date: J7D160185,J7D120262; 05/28/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7107454; RTRITIUM H-3 by LSC

SDG, Matrix: W05155; 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 => JTR3K1AA 5.00<10.00 JTR3P1AA 5.00<10.00 JTR3V1AA 5.00<10.00 JT1KV1AA 5.00<10.00 JT1K71AA 5.00<10.00 Q:VB ok AL 5/11/07		✓	
8.07 The Correct Count Geometry was Used. Count Geometry => JT33Q1AF SVP15/5<>SVP10/10 JT33Q1AG SVP15/5<>SVP10/10 JT33Q1AA SVP15/5<>SVP10/10 JT33Q1AC SVP15/5<>SVP10/10 JT33Q1AD SVP15/5<>SVP10/10 JT33Q1AE SVP15/5<>SVP10/10 JTR3K1AA SVP15/5<>SVP10/10 JTR3P1AA SVP15/5<>SVP10/10 JTR3V1AA SVP15/5<>SVP10/10 JT1KV1AA SVP15/5<>SVP10/10 JT1KV1AG SVP15/5<>SVP10/10 JT1K71AA SVP15/5<>SVP10/10 Q:VC ok AL 5/11/07		✓	
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. OK	✓		
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. OK	✓		
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:			

REVISION 1

8.21 Result < Lc, Activity Not Detected, U Flag. Yes No N/A ✓
No Limit Specified!

8.22 Result < Mdc, Activity Not Detected, U Flag. Yes ✓ No N/A
No Positive Results
OK Calc_IDL Not Calculated

8.23 Result <= Action Level, when Defined. Yes ✓ No N/A
OK; No Action Level Found => H-3

OK; No Callin Level Found => H-3

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 Angela Long Date 5/11/07

REVISION 1

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 710745 4
W05155

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: 5-14-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

REVISION 1

5/7/2007 2:32:32 PM

Lot No., Due Date: J7D120254; 05/28/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7124264; RH3EE H3EE by LSC

SDG, Matrix: W05155; WATER

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

6.0 Comments on any No response:
See NCM 10-09853.

First Level Review Angela Long **Date** 5/7/07

REVISION 1

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7124264
W05155

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 NCM

Second Level Review: Sheryl A Adams Date: 5-7-07

REVISION 1

Clouseau Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: 10-09853
NCM Initiated By: angela long
Date Opened: 05/07/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: H3EE by LSC
Lot #'s (Sample #'s): J7D120254 (1), J7D170000 (458),
QC Batches: 7107458, 7124264

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

Problem Description / Root Cause

Name	Date	Description
angela long	05/07/2007	The original batch had a high blank and the dups did not agree. A recount was issued and the results are within acceptable limits so the batch will be accepted.

Corrective Action

Name	Date	Corrective Action
angela long	05/07/2007	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: 5/7/2007

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

REVISION 1

4/25/2007 7:24:23 AM

Lot No., Due Date: J7D130267; 05/28/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7107463; RC14 C-14 by LSC

SDG, Matrix: W05155; 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. 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 => C-14 OK; No Callin Level Found => C-14	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

REVISION 1

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 4/25/07

REVISION 1

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 710746 3
W05155

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: Kerry A Adam Date: 4-25-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

REVISION 1 5/24/2007 12:05:00 PM

Lot No., Due Date: J7D160185,J7D120254,J7D120262,J7D130281; 05/28/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7107426; RUNAT UNat by KPA

SDG, Matrix: W05155; 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 => JT31E1AD UNSC<>UNSF Q:V9		✓	
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used No Count Analysis Size found in Batch Data!			✓
8.07 The Correct Count Geometry was Used. No Count Geometry found in Batch Data!			✓
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. No Count Duration Field Found in Batch Data!			✓
8.09 Method Blank is within Control Limits. Result > UCL => JT31E1AA Uranium 3.7E+00 L:1.4E-01 Q:B0		✓	
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). Result > B Flag UCL => JT31E1AA Uranium 3.7E+00 L:1.6E-01 Q:B3		✓	
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. OK	✓		
8.17 Tracer within Control Limits. No Tracers found in Batch!			✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!			✓
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => JT1K71AE Uranium 3.1E+00 L:8.6E-02 JT1KV1AE Uranium 2.8E+00 L:8.3E-02 JTR2J1AE Uranium 2.2E+00 L:8.0E-02 JTR351AC Uranium 3.5E+00 L:8.1E-02 JTR3K1AE Uranium 3.1E+00 L:8.1E-02 JTR3P1AE Uranium 3.1E+00 L:7.8E-02 JTR3V1AE Uranium 2.5E+00 L:8.7E-02 JTW0C1AD Uranium 3.6E+00 L:7.8E-02		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => Uranium	✓		

OK; No Callin Level Found => Uranium

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

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

8.26 Instruments have Current Calibrations. Yes ✓ No N/A

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

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

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

8.3 Comments:

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

First Level Review Lisa Anderson **Date** 5/24/07

REVISION 1

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 710726
W05155

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: 5-24-07

PNNL 77D120254
W05155
Due 05-25-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-003-251

Page 1 of 1

SIL RICHLAND

Collector K.B. HULSE	**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.** SMI-1 **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
B1MDR5		W	4-11-07	1110	1x20-mL P	Activity Scan	None
B1MDR5		W			3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
B1MDR5		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2) JTR26	HNO3 to pH <2
B1MF28		W			1x20-mL P	Activity Scan	None
B1MF28		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1MF28		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1) JTR2J	None
B1MF28		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1MF28		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
K.B. HULSE	K.B. Hulse	APR 11 2007 1530	ERIC DARROW	Eric Darrow	APR 11 2007 1530
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

REVISION 1

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STL RICHLAND

PNNL 37D120254
W05155
Due 05-25-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-003-259

Page 1 of 1

Collector K.B. HULSE	**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.** SML-1 **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
** **

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
B1MF30		W	4-11-07	0950	1x20-mL P	Activity Scan	None
B1MF30		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1MF30		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1MF30		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JTR2P	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
K.B. HULSE	K.B. Hulse	K.B. Hulse	APR 11 2007 1530	Erie Darby	Erie Darby	Erie Darby	APR 11 2007 1530
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

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

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STL RICHLAND

PNNL J7D120254 W05155 Due 05-25-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-003-265

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Collector K B HULSE	**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	1 WF-N-506	**Ice Chest No.** SMT-1 **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
B1MF33		W	4-11-07	1235	1x20-mL P	Activity Scan	None
B1MF33		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1MF33		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JTR2Q	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
K B HULSE	K B Hulse	K B Hulse	APR 11 2007 1530	Eric Darby	Eric Darby	Eric Darby	APR 11 2007 1530
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

REVISION 1

PNNL JTD120254
W05155
Due 05.25.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-003-271

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Collector K. B. HULSE	**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.** SML-1 **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
B1MF38		W	4-11-07	1342	1x20-mL P	Activity Scan	None
B1MF38		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1MF38		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1MF38		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JTR2R	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
K. B. HULSE			APR 11 2007 1530	ERIC DARBY			APR 11 2007 1530
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

REVISION 1

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REVISION 1

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 4/11/09 1530

Client: PGW SDG # W05155 NA [ ] 507003

Work Order Number: JTD120254 Chain of Custody #: 507003-251, 259, 265, 271

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? ✓
2. Custody Seals dated and signed? ✓
3. Chain of Custody record present? ✓
4. Cooler temperature _____ NA ✓ 5 Ventec cooler/pack ✓
6. Number of samples in shipping container: 4 5 88
7. Sample holding times exceeded? ✓
8. Samples have:
   _____ tape
   _____ custody seals ✓
9. Samples are:
   ✓ in good condition
   _____ broken
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ]
11. Sample Location, Sample Collector Listed? * ✓
    *For documentation only. No correct % action required.
12. Were any anomalies identified in sample receipt? ✓
13. Description of anomalies (include sample numbers):

Sample Custodian: Em Darby Date: 4/11/09 1530

Client Sample ID	Analysis Requested	Condition

Client Informed on _____ by _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 12/05, Rev. 6

STL RICHLAND

PNNL JTD120262 W05155 Due 05 25 07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # A07-004-5

Page 1 of 1

Collector Fluor Hanford D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. A07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title LLWMA(2)-PA, APRIL 2007	HNF-N-506-9	**Ice Chest No.** JMLZ4 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.** N/A
Protocol Other	**Priority:** 45 Days	**Offsite Property No.** N/A

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MMF6		W	4-11-07	0858	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1MMF6		W	↓	↓	1x20-mL P	Activity Scan	None
B1MMF6		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1MMF6		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1MMF6		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JTR3K	

Relinquished By Print: Fluor Hanford D. E. PARCHEN Sign: D Parchen Date/Time: APR 11 2007 1520	Received By Print: Eric Dawley Sign: Eric Dawley Date/Time: APR 11 2007 1530	Matrix *	
Relinquished By Date/Time	Received By Date/Time	S = Soil, SE = Sediment, SO = Solid, SL = Sludge, W = Water, O = Oil, A = Air	DS = Drum Solid, DL = Drum Liqui, T = Tissue, WI = Wine, L = Liquid, V = Vegetation, X = Other
Relinquished By Date/Time	Received By Date/Time		
Relinquished By Date/Time	Received By Date/Time		
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 J7D120262
W05155
Due 05-25-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # A07-004-6

Page 1 of 1

Collector Fluor Hanford D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. A07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title LLWMA(2)-PA, APRIL 2007	HNF-N-506-9	**Ice Chest No.** GW10-06-8 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.** N/A
Protocol Other	**Priority:** 45 Days	**Offsite Property No.** N/A

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MMF7		W	4-11-07	1206	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1MMF7		W	↓	↓	1x20-mL P	Activity Scan	None
B1MMF7		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1MMF7		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1MMF7		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JTR3P	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. E. PARCHEN			APR 11 2007 1530	E. Darby	Eric Darby		APR 11 2007 1533
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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PNNL JTD120262 W05155 Due 05-25-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # A07-004-7

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Collector Fluor Hanford D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. A07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title LLWMA(2)-PA, APRIL 2007	HNF-N-506-9	**Ice Chest No.** GWO-06-8 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.** N/A
Protocol Other	**Priority:** 45 Days	**Offsite Property No.** N/A

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MMF8		W	4-11-07	1051	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1MMF8		W	↓	↓	1x20-mL P	Activity Scan	None
B1MMF8		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1MMF8		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1MMF8		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JTR3V	

	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By Fluor Hanford D. E. PARCHEN	D E Parchen	D E Parchen	APR 11 2007 1530	Received By Eric Darby	Eric Darby	Eric Darby	APR 11 2007 1530
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

REVISION 1

PNNL J7D120262
W05155
Due 05-25-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # A07-004-8

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Collector Fluor Hanford D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. A07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title LLWMA(2)-PA, APRIL 2007	HNF-N-506-9	**Ice Chest No.** SWL24 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.** N/A
Protocol Other	**Priority:** 45 Days	**Offsite Property No.** N/A

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MMF9		W	4-11-07	0951	1x20-mL P	Activity Scan	None
B1MMF9		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1MMF9		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JTR 35	

	Print	Sign	Date/Time		Print	Sign	Date/Time
Relinquished By Fluor Hanford D. E. PARCHEN	D. E. PARCHEN		APR 11 2007 1530	Received By	ERIC DURBIN		APR 11 2007 1530
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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REVISION 1

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 4/11/07

Client: PGW SDG # W05155

Work Order Number: JTD120262

Chain of Custody # A07-004 A07-004-5,6,7,8

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? ✓
2. Custody Seals dated and signed? ✓
3. Chain of Custody record present? ✓
4. Cooler temperature _____ NA ✓ ✓
6. Number of samples in shipping container: 4 ✓
7. Sample holding times exceeded? ✓
8. Samples have:
   _____ tape
   _____ custody seals
   _____ bottle labels
   ✓ COC tags or sample labels
9. Samples are:
   ✓ in good condition
   _____ broken
10. Sample pH taken? NA _____ pH ✓ ✓
11. Sample Location, Sample Collector Listed? * ✓
    *For documentation only. No corrective action needed
12. Were any anomalies identified in sample receipt? ✓
13. Description of anomalies (include sample numbers): _____

Sample Custodian: Eric Darby 4/11/07 1550

Client Sample ID	Analysis Requested	Condition

Client Informed on _____ by _____ Person contacted

[ ] No action necessary; process as is.

Project Manager _____

LS-023, 12/05, Rev 6

PNNL JTD130267
W05155
Due 05-28-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I07-036-18**

Page 1 of 1

Collector Fluor Hanford K. B. HULSE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I07-036	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100KR4IAM(1/2)-LOI, APRIL 2007	CNF-N-506-4	**Ice Chest No.** 403 **Temp.** 4 °C
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
B1MMW6		W	4/2/07	1304	1x20-mL P	Activity Scan	None
B1MMW6		W	"	"	2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1MMW6		W	"	"	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						JTWVN	

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
Fluor Hanford K. B. HULSE	K B Hulse	APR 12 2007 1400	J.G. Hogan Fluor Hanford	J G Hogan	APR 12 2007 1400
J.G. Hogan Fluor Hanford	J G Hogan	4-12-07 1430	Eric Darby	Eric Darby	4-12-07 1430
Relinquished By		Date/Time	Received By		Date/Time
Relinquished By		Date/Time	Received By		Date/Time

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

STL RICHLAND

REVISION 1

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PNNL JTD130267
W05155
Due 05-28-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I07-036-21**

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Collector Fluor Hanford K. B. HULSE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I07-036	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100KR4IAM(1/2)-LOI APRIL 2007	HNF-N-506-9	**Ice Chest No.** 403 **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
B1MMW9		W	4/2/07	1743	1x20-mL P	Activity Scan	None
B1MMW9		W	↓	↓	2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1MMW9		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						JTWVP	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K. B. HULSE			APR 12 2007 1400	J.G. Hogan Fluor Hanford			APR 12 2007 1400
J.G. Hogan Fluor Hanford			4-12-07 1450				4-12-07 1450
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

REVISION 1

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PNNL J7D130267
W05155
Due 05-28-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I07-036-25

Page 1 of 1

Collector Fluor Hanford	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. B. HULSE I07-036	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100KR4IAM(1/2)-LOI, APRIL 2007	HNF-N-506.9	**Ice Chest No.** 403 **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
B1MMX3		W	41207	1225	1x20-mL P	Activity Scan	None
B1MMX3		W	↓	↓	2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1MMX3		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						+TWWH	

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
Fluor Hanford K. B. HULSE	K B Hulse	APR 12 2007 1400	J.G. Hogan Fluor Hanford	J G Hogan	APR 12 2007 1400
J.G. Hogan Fluor Hanford	J G Hogan	4-12-07 1430	Eric Dodd	Eric Dodd	4-12-07 1430
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

REVISION 1

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STL

Sample Check-in List

Date/Time Received: 4/12/07 1400

Client: PGW SDG #: W05155 COC #: I07-036

Work Order Number: J7N130267

Chain of Custody #: I07-036-18, 21, 25

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 [illegible]	N/A [✓]	[illegible]
5	Number of samples in shipping container:	3	
6	[illegible]		[illegible]
7	Sample holding times exceeded?	NA [✓]	Yes [ ] No [ ]
8	Samples have:		
	_____ tape		[illegible]
	_____ custody seals	[✓]	[illegible]
9	Samples are:		
	[✓] in good condition		[illegible]
	_____ broken		_____ Leaking
			_____ Parts of samples
			Only [illegible] samples requested
10	Sample pH taken?	NA [ ] pH<2 [ ]	pH>2 [✓] pH>9 [ ]
11	Sample Location, Sample Collector Listed? * *For documentation only. No corrective action needed		Yes [✓] No [ ]
12	Were any anomalies identified in sample receipt?		Yes [ ] No [✓]
13	Description of anomalies (include sample number):		

Sample Custodian: Eric Daby Date: 4/12/07 1400

Client Sample ID	Analysis Requested	Container	[illegible]

Client informed on _____ by _____ [illegible]

[ ] No action necessary; process as is.

Project Manager: _____ Date: _____

LS-023 9/03, Rev. 5

STL RICHLAND

PNNL JTD130275 WO5155 Due 05.28.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-004-26

Page 1 of 1

Collector Fluor Hanford K. B. HULSE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, APRIL 2007	4NF-N-506-9	**Ice Chest No.** 407 **Temp.**
Shipped To (Lab) Severn Trent Incornorated, 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
B1MPW0		W	41207	1304	1x20-mL P	Activity Scan	None
B1MPW0		W	X	X	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JTWKG	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K. B. HULSE			APR 12 2007 1400	J.G. Hogan Fluor Hanford			APR 12 2007 1400
J.G. Hogan Fluor Hanford			4-12-07 1400				4-12-07 1450
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	

REVISION 1

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

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REVISION 1

STL

Sample Check-In List

Date/Time Received: 4/12/07 ~~@ 1530~~ @ 1400

Client: PGW SDG # W05155 NA [ ] SAF # 507-004

Work Order Number: JTD1302175 Chain of Custody # 507-004-26

Shipping Container ID: _____ AR Bill #: _____

1 Custody Seals on shipping container? Yes [ ] No [ ]

2 Custody Seals dated and signed? Yes [ ] No [ ]

3 Chain of Custody record present? NA [ ] Yes [✓] No [ ]

4 Cooler temperature _____ NA [✓] 5 Vermiculite/packing materials is N/A ✓

6 Number of samples in shipping container: 1

7 Sample holding times exceeded? NA [✓] Yes [ ] No [ ]

8 Samples have:
_____tape
_____custody seals
_____adhesive labels
✓ appropriate sample labels

9 Samples are:
✓ in good condition
_____broken
_____leaking
_____have air bubbles
(Only for samples requiring zero headspace)

10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [ ] pH>9 [ ]

11 Sample Location, Sample Collector Listed? Yes [✓]
*For documentation only. No corrective action necessary.

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

13 Description of anomalies (include sample numbers): _____

Sample Custodian: E Darby Date: 4/12/07 1400

Client Sample ID	Analysis Requested	Lab ID*	Comments

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023 9/03, Rev 5

PNNL JTD130281 W05155 Due 05-28-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-004-196

Page 1 of 1

Collector Fluor Hanford R BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, APRIL 2007	HNF-N-506-7	**Ice Chest No.** TI-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
B1MNW5		W	4-12-07	1221	1x20-mL P	Activity Scan	None
B1MNW5		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
B1MNW5		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1MNW5		W			1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
						JTWOC	

	Print	Sign	Date/Time		Print	Sign	Date/Time
Relinquished By	Fluor Hanford R BREWINGTON	R. Brewington	APR 12 2007 1330	Received By	J.G. Hogan Fluor Hanford	J.G. Hogan	APR 12 2007 1330
Relinquished By	J.G. Hogan Fluor Hanford	J.G. Hogan	4-12-07 1450	Received By	Eric Darby	Eric Darby	4-12-07 1450
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

SO = 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

REVISION 1

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STL

Sample Check-in List

Date/Time Received 4/12/07 1330

Client ED ~~PNA~~ PGW SDG # W05155 NA # W07-004

Work Order Number JTD130281 Chain of Custody # W07-004-196

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 [✓] [illegible] Yes [ ] No [✓]
5. Number of samples in shipping container 1
6. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
7. Samples have:
   _____ tape
   _____ custody seals
   [✓] hazard labels
   _____ [illegible]
8. Samples are
   [✓] in good condition
   _____ broken
   _____ leaking
   _____ [illegible]
   (only for samples requiring [illegible])
9. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
10. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed
11. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
12. Description of anomalies (include sample numbers): _____

Sample Custodian Eu Darby Date 4/12/07 1330

Client Sample ID	Analysis Requested	Condition	Comments

Client informed on _____ by _____ Person contacted _____

[ ] No action necessary, process as is

Project Manager _____ Date _____

[illegible] 9703, Rev. 5

STL RICHLAND

PNNL JTD160185
W05155
Due 05-28-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # A07-004-2

Page 1 of 1

Collector Fluor Hanford D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. A07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title LLWMA(2)-PA, APRIL 2007	HNF-N-506 9	**Ice Chest No.** SML 24 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol Other	**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
B1MMF3		W	4-13-07	1317	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1MMF3		W	"	"	1x20-mL P	Activity Scan	None
B1MMF3		W	"	"	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1MMF3		W	"	"	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1MMF3		W	"	"	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JTIKV	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. E. PARCHEN			APR 13 2007 1505	Eric Daniels			APR 13 2007 1505
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

REVISION 1

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PNNL JTD160185
W05155
Due 05-28-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # A07-004-3

Page 1 of 1

Collector Fluor Hanford D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. A07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title LLWMA(2)-PA, APRIL 2007	HNF-N-506 9	**Ice Chest No.** JML 24 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol Other	**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
B1MMF4		W	4-13-07	1147	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1MMF4		W	↓	↓	1x20-mL P	Activity Scan	None
B1MMF4		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1MMF4		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1MMF4		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JTIK7	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Fluor Hanford D. E. PARCHEN		APR 13 2007 1505	Eric Denby	Eric Denby		APR 13 2007 1505
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

REVISION 1

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SEVERN TRENT STL

Sample Check-in List

Date/Time Received 4/13/07 1505

Client: PGW SDG # W057155 NA # A07-004

Work Order Number: JTD160185 Chain of Custody # A07-004-2,3

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

Sample Custodian Date 4/13/07 1505

Client Sample ID	Analysis Requested	Condition	Containers

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary, process as is

Project Manager _____ Date _____

PNNL JTD170104
W05155
Due 05.28.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-004-120

Page 1 of 1

STL RICHLAND

Collector Fluor Hanford D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA APRIL 2007	HNF-N-506 9	**Ice Chest No.** Shell 24 **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
B1MNH9		W	4-13-07	1317	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1MNH9		W	↓	↓	1x20-mL P	Activity Scan	None
						JT139	

Relinquished By Fluor Hanford D. E. PARCHEN Print / Sign	Date/Time 1505 APR 13 2007	Received By Print: Eric Dardy Sign	Date/Time 1505 APR 13 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

REVISION 1

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PNNL J70170104
W05155
Due 05.28.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-004-142**

Page 1 of 1

STL RICHLAND

Collector Fluor Hanford D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, APRIL 2007	HNF-N-506 9	**Ice Chest No.** STNL 24 **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
B1MNL0		W	4-13-07	0908	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1MNL0		W	↓	↓	1x20-mL P	Activity Scan	None
						JT13V	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. E. PARCHEN			APR 13 2007	Eric Dorsey	E Dorsey		APR 13 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

REVISION 1

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PNNL JTD170104 W05155 Due 05-28-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-004-134**

Page 1 of 1

Collector Fluor Hanford D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056	**MSIN**	**FAX**
SAF No. W07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**		
Project Title RCRA, APRIL 2007	HNF-N-506 9	**Ice Chest No.** SML 24	**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
B1MNK1		W	4-13-07	1147	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1MNK1		W	↓	↓	1x20-mL P	Activity Scan	None
						JT131	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. E. PARCHEN			APR 13 2007 1505	ERIC DANLY			APR 13 2007 1505
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

REVISION 1

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PNNL JT0170104 W05155 Due 05-28-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-004-148**

Page 1 of 1

Collector Fluor Hanford D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, APRIL 2007	HNF-N-506 9	**Ice Chest No.** SML 24 **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
B1MNM0		W	4-13-07	1023	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1MNM0		W	↓	↓	1x20-mL P	Activity Scan	None
						JT133	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford	D. E. PARCHEN		APR 13 2007 1505	Eric Darby			APR 13 2007 1505
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

REVISION 1

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REVISION 1

AMENDED DATA

STL

Sample Check-in List

Date/Time Received: 4/13/07

Client: PGW SDG #: W05155 NA [ ] SAF #: W07-004

Work Order Number: JT0170104 Chain of Custody #: W07-004-120 SKS 8/7/07

Shipping Container ID: _____ Ar. B...: 142 / 134 / 148

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

Sample Custodian: Ed Davis Date: 4/13/07

Client Sample ID	Analysis Requested	Lot Number	Bottle Type

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary, process as is.

Project Manager _____ Date _____

REVISED Dayes 2/26/08

LS 0.2 9/0[illegible] Rev 5

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STL PITTSBURGH

SKS 8/7/07

STL RICHLAND

5/11/2007 8:59:06 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: 235

AnalyDueDate: 05/28/2007 W05155

Batch: 7107429 **WATER** **pCi/L**
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep1 DT/Tm Tech:

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 JTR2G-1-AA J7D120254-1-SAMP 04/11/2007 11:10	198.60g,in AmtRec: 20ML,4XLP #Containers: 5		1.5	31.2	50		10 F	1748	5/24/07 a Scr: Alpha: -5.49E-04 uCi/Sa Beta: 4.86E-04 uCi/Sa	
2 JT13Q-1-AA J7D170104-1-SAMP 04/13/2007 13:17	179.30g,in AmtRec: 20ML,LP #Containers: 2			39.3			10A	1852	5/24/07 a Scr: Alpha: 1.50E-04 uCi/Sa Beta: -3.36E-05 uCi/Sa	
3 JT13Q-1-AD-X J7D170104-1-DUP 04/13/2007 13:17	179.60g,in AmtRec: 20ML,LP #Containers: 2			37.2			10B		Scr: Alpha: 1.50E-04 uCi/Sa Beta: -3.36E-05 uCi/Sa	
4 JT13V-1-AA J7D170104-2-SAMP 04/13/2007 09:08	199.50g,in AmtRec: 20ML,LP #Containers: 2			37.2			10C		Scr: Alpha: -1.25E-04 uCi/Sa Beta: 1.09E-04 uCi/Sa	
5 JT131-1-AA J7D170104-3-SAMP 04/13/2007 11:47	179.00g,in AmtRec: 20ML,LP #Containers: 2			~~41.6~~ 5/24/07 APA 41.6			10d		Scr: Alpha: 8.61E-05 uCi/Sa Beta: 1.04E-04 uCi/Sa	
6 JT133-1-AA J7D170104-4-SAMP 04/13/2007 10:23	179.90g,in AmtRec: 20ML,LP #Containers: 2			38.4			10F		Scr: Alpha: 4.52E-05 uCi/Sa Beta: -1.28E-04 uCi/Sa	
7 JT31T-1-AA-B J7D170000-429-BLK 04/13/2007 13:17	200.80g,in AmtRec: #Containers: 1			0.5			10A	1957	5/24/07 a Scr: Alpha: Beta:	

REVISION 1

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

5/11/2007 8:59:10 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: 05/28/2007

Batch: 7107429 **pCi/L**
SEQ Batch, Test: None

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JT31T-1-AC-C J7D170000-429-LCS 04/13/2007 13:17		199.10g,in	ASD4175 03/23/07,pd 06/01/01,r	1.5	0.6	.50	10B	1957	5/24/07 n	

AmtRec: #Containers: 1 Scr: Alpha: Beta:

Comments: JT13Q-SAMP "Comments. All reduced aliquots are due to weight screen activity. JB 05/11/07"
pH < 2.0 OK 5-11-07

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

JTR2G1AA-SAMP Constituent List:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:
JT31T1AA-BLK:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:
JT31T1AC-LCS:
Am-241 RDL: pCi/L LCL:70 UCL:130 RPD:20

JTR2G1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JT31T1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JT31T1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

REVISION 1

REVISION 1

ICOC Fraction Transfer/Status Report

ByDate: 5/25/2006, 5/30/2007, Batch: '7107429', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7107429						
AC		CalcC	BockJ	5/11/2007 8:51:56		
SC			wagarr	IsBatched	4/17/2007 3:39:18 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	5/11/2007 8:51:56 AM	RICH-RC-5014 Revision 6
SC			BockJ	Prep1C	5/11/2007 8:59:11 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	InPrep2	5/22/2007 8:37:12 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	Prep2C	5/24/2007 4:00:41 PM	RICH-RC-5014 REVISION 6
SC			StringerR	InCnt1	5/24/2007 4:12:40 PM	RICH-RD-0003 REVISION 4
SC			StringerR	CalcC	5/24/2007 8:17:18 PM	RICH-RD-0003 REVISION 4
AC			BockJ	5/11/2007 8:59:11		
AC			AshworthA	5/22/2007 8:37:12		
AC			AshworthA	5/24/2007 4:00:41 PM		
AC			StringerR	5/24/2007 4:12:40 PM		
AC			StringerR	5/24/2007 4:13:59 PM		
AC			StringerR	5/24/2007 8:17:18 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.26

STL RICHLAND

5/11/2007 8:59:37 AM

384868, Pacific Northwest National Laboratory , Pacific Northwest National Lab

AnalyDueDate: 05/28/2007 WO#5155

Batch: 7107430 **WATER** **pCi/L**

SEQ Batch, Test: None

Sample Preparation/Analysis

BC Gross Beta PrpRC5014

S8 Gross Beta by GPC using Sr/Y-90 curve

5I CLIENT: HANFORD

PM, Quote: SA , 57671

Balance Id:1120482733

Pipet #: 235

Sep1 DT/Tm Tech:

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 JTR2G-1-AC J7D120254-1-SAMP 04/11/2007 11:10	199.30g,in AmtRec: 20ML,4XLP		#Containers: 5	1.5	54.0	100	26B	1719	5/23/07 DD	Scr: Alpha: -5.49E-04 uCi/Sa Beta: 4.86E-04 uCi/Sa
2 JTW0C-1-AA J7D130281-1-SAMP 04/12/2007 12:21	200.40g,in AmtRec: 20ML,500ML,4XLP		#Containers: 6		83.7		26C			Scr: Alpha: -2.63E-04 uCi/Sa Beta: 1.69E-04 uCi/Sa
3 JT13Q-1-AC J7D170104-1-SAMP 04/13/2007 13:17	198.10g,in AmtRec: 20ML,LP		#Containers: 2		72.1		26D			Scr: Alpha: 1.50E-04 uCi/Sa Beta: -3.36E-05 uCi/Sa
4 JT13V-1-AC J7D170104-2-SAMP 04/13/2007 09:08	198.60g,in AmtRec: 20ML,LP		#Containers: 2		67.8		27A			Scr: Alpha: -1.25E-04 uCi/Sa Beta: 1.09E-04 uCi/Sa
5 JT13V-1-AD-X J7D170104-2-DUP 04/13/2007 09:08	201.00g,in AmtRec: 20ML,LP		#Containers: 2		57.3		27B			Scr: Alpha: -1.25E-04 uCi/Sa Beta: 1.09E-04 uCi/Sa
6 JT131-1-AC J7D170104-3-SAMP 04/13/2007 11:47	199.20g,in AmtRec: 20ML,LP		#Containers: 2		~~76.~~ 5/23/07 APA 75.6		27C			Scr: Alpha: 8.61E-05 uCi/Sa Beta: -1.04E-04 uCi/Sa
7 JT133-1-AC J7D170104-4-SAMP 04/13/2007 10:23	199.50g,in AmtRec: 20ML,LP		#Containers: 2		62.9		27D			Scr: Alpha: 4.52E-05 uCi/Sa Beta: -1.28E-04 uCi/Sa

REVISION 1

STL Richland Richland Wa.

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

ISV - Insufficient Volume for Analysis

WO Cnt: 7

Prep_SamplePrep v4.8.26

STL RICHLAND

5/11/2007 8:59:39 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: 05/28/2007

Sep1 DT/Tm Tech:

Batch: 7107430 **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:
8 JT31X-1-AA-B J7D170000-430-BLK 04/13/2007 09:08		201.80g,in AmtRec:	 #Containers: 1	1.5	Ø	100	28A Scr:	1719 Alpha:	5/23/07 JP Beta:	
9 JT31X-1-AC-C J7D170000-430-LCS 04/13/2007 09:08		199.70g,in AmtRec:	BESB3054 03/23/07,pd 08/08/06,r #Containers: 1	0.4			28B Scr:	 Alpha:	 Beta:	

Comments: ~~JT13Q SAMP~~ "Comments. All reduced aliquots are due to weight screen activity. JB 05/11/07"
PH<2.0 JS - 5-11-07

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

JTR2G1AC-SAMP Constituent List:

BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
JT31X1AA-BLK:					
BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
JT31X1AC-LCS:					
Sr-90	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

JTR2G1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JT31X1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JT31X1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

REVISION 1

REVISION 1

ICOC Fraction Transfer/Status Report

ByDate: 5/24/2006, 5/29/2007, Batch: '7107430', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
7107430							
AC			CalcC	BockJ	5/11/2007 8:45:14		
SC				wagarr	IsBatched	4/17/2007 3:39:18 PM	ICOC_RADCALC v4.8.26
SC				BockJ	InPrep	5/11/2007 8:45:14 AM	RICH-RC-5014 Revision 6
SC				BockJ	Prep1C	5/11/2007 8:59:21 AM	RICH-RC-5014 REVISION 6
SC				AshworthA	InPrep2	5/22/2007 2:24:31 PM	RICH-RC-5014 REVISION 6
SC				AshworthA	Prep2C	5/23/2007 3:11:45 PM	RICH-RC-5014 REVISION 6
SC				DAWKINSO	InCnt1	5/23/2007 3:38:43 PM	RICH-RD-0003 REVISION 4
SC				DAWKINSO	CalcC	5/23/2007 9:28:51 PM	RICH-RD-0003 REVISION 4
AC				BockJ	5/11/2007 8:59:21		
AC				AshworthA	5/22/2007 2:24:31 PM		
AC				AshworthA	5/23/2007 3:11:45 PM		
AC				DAWKINSO	5/23/2007 3:38:43 PM		
AC				DAWKINSO	5/23/2007 9:28:51 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.26

STL RICHLAND

5/14/2007 2:59:38 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 05/28/2007

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

Batch: 7107432 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Balance Id:1120482733,1120482733,1120
Pipet #:
Sep1 DT/Tm Tech: 05/04/2007 10:31,ManisD
Sep2 DT/Tm Tech: 05/14/2007 09:13,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:
1 JTWVN-1-AC J7D130267-1-SAMP		1006.50g,in	SRTB14711 04/25/07,pd 09/11/06,r	1.593 2.0145 0.7908	1.0	24.5 05/04/2007 10:31,s1, 05/14/2007	100	3A 3A	0742 0730	5/15/07 5/16/07	
04/12/2007 13:04		AmtRec: 20ML,5XLP	#Containers: 6					Scr:	Alpha: 1.13E-06 uCi/Sa		Beta: 3.11E-07 uCi/Sa
2 JTWVP-1-AC J7D130267-2-SAMP		1003.50g,in	SRTB14712 04/25/07,pd 09/11/06,r	1.813 2.0247 0.8949	1.0	23.9 05/04/2007 10:31,s1, 05/14/2007	100	3B 3B	0742 0730	5/15/07 5/16/07	
04/12/2007 12:43		AmtRec: 20ML,5XLP	#Containers: 6					Scr:	Alpha: 1.10E-06 uCi/Sa		Beta: -4.46E-08 uCi/Sa
3 JTWWH-1-AC J7D130267-3-SAMP		1005.80g,in	SRTB14713 04/25/07,pd 09/11/06,r	1.569 2.0095 0.7998	1.0	24.6 05/04/2007 10:31,s1, 05/14/2007	100	3C 3C	0742 0730	5/15/07 5/16/07	
04/12/2007 12:25		AmtRec: 20ML,5XLP	#Containers: 6					Scr:	Alpha: 1.18E-06 uCi/Sa		Beta: -3.98E-07 uCi/Sa
4 JTWWH-1-AD-X J7D130267-3-DUP		1007.10g,in	SRTB14714 04/25/07,pd 09/11/06,r	1.998 2.0162 0.8918	1.0	24.9 05/04/2007 10:31,s1, 05/14/2007	100	3D 3D	0742 0730	5/15/07 5/16/07	
04/12/2007 12:25		AmtRec: 20ML,5XLP	#Containers: 6					Scr:	Alpha: 1.18E-06 uCi/Sa		Beta: -3.98E-07 uCi/Sa

REVISION 1

STL RICHLAND

5/14/2007 2:59:40 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

AnalyDueDate: 05/28/2007

Batch: 7107432 **pCi/L**
SEQ Batch, Test: None

Balance Id:1120482733,1120482733,1120

Pipet #: _____

Sep1 DT/Tm Tech: 05/04/2007 10:31,ManisD

Sep2 DT/Tm Tech: 05/14/2007 09:13,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 JT315-1-AA-B J7D170000-432-BLK		1002.50g,in	SRTB14715 04/25/07,pd 09/11/06,r	1.351 2.0145 0.6706	1.0	25	100	4A 4A	0742 0830	5/15/07 5/16/07	
04/12/2007 12:25		AmtRec:	#Containers: 1			05/04/2007 10:31;s1;05/14/2007		Scr:	Alpha:		Beta:
6 JT315-1-AC-C J7D170000-432-LCS		999.90g,in	SRSG1342 04/19/07,pd 09/11/06,r	1.514 2.0228 0.7487	1.0	24.1	100	4B 4B	0742 0830	5/15/07 5/16/07	
04/12/2007 12:25		AmtRec:	#Containers: 1			05/04/2007 10:31;s1;05/14/2007		Scr:	Alpha:		Beta:

Comments:

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

JTWVN1AC-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

JT3151AA-BLK:

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

JT3151AC-LCS:

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

JTWVN1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JT3151AA-BLK:

REVISION 1

Sample Preparation/Analysis

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

Balance Id:1120482733,1120482733,1120

Pipet #: _____

AnalyDueDate: 05/28/2007

Batch: 7107432 **pCi/L**
SEQ Batch, Test: None

Sep1 DT/Tm Tech: 05/04/2007 10:31,ManisD

Sep2 DT/Tm Tech: 05/14/2007 09:13,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:

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

JT3151AC-LCS:

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

Approved By _____ Date: _____

REVISION 1

REVISION 1

ICOC Fraction Transfer/Status Report

ByDate: 5/24/2006, 5/29/2007, Batch: '7107432', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7107432						
AC		CalcC	BockJ	5/2/2007 2:27:08 PM		
SC			wagarr	IsBatched	4/17/2007 3:39:18 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	5/2/2007 2:27:08 PM	rich-rc-5016 rEVISION 6
SC			BockJ	Prep1C	5/2/2007 2:37:53 PM	RICH-RC-5016 REVISION 6
SC			ManisD	InSep1	5/2/2007 4:21:04 PM	RICH-RC-5006 REVISION 6
SC			ManisD	Sep1C	5/4/2007 11:31:06 AM	RICH-RC-5006 REVISION 6
SC			BlackCL	InCnt1	5/4/2007 11:34:22 AM	RICH-RD-0007 REVISION 5
SC			StringerR	Cnt1C	5/4/2007 1:13:08 PM	RICH-RD-0007 REVISION 5
SC			ManisD	InSep2	5/14/2007 8:09:12 AM	RICH-RC-5071 REVISION 4
SC			ManisD	Sep2C	5/14/2007 3:08:24 PM	RICH-RC-5071 REVISION 4
SC			DAWKINSO	InCnt1	5/14/2007 4:16:18 PM	RICH-RD-0003 REVISION 4
SC			BlackCL	CalcC	5/16/2007 7:59:19 AM	RICH-RD-0003 REVISION 4
AC			BockJ	5/2/2007 2:37:53 PM		
AC			ManisD	5/2/2007 4:21:04 PM		
AC			ManisD	5/4/2007 11:31:06		
AC			BlackCL	5/4/2007 11:34:22		
AC			StringerR	5/4/2007 1:13:08 PM		
AC			ManisD	5/14/2007 8:09:12		
AC			ManisD	5/14/2007 3:08:24 PM		
AC			DAWKINSO	5/14/2007 4:16:18 PM		
AC			BlackCL	5/16/2007 7:59:19		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 10

ICOCFractions v4.8.26

PGW

5/11/2007 10:36:52 AM

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: 05/28/2007 W05155

Sep1 DT/Tm Tech:

Batch: 7107450 **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 JTR2J-1-AA J7D120254-2-SAMP 04/11/2007 11:10	2003.00g,in			100mL		100	G4	2134	5/21/07 DD	
	AmtRec: 20ML,2X500ML,3X4LP	#Containers: 6		Scr:	Alpha: 7.29E-04 uCi/Sa		Beta: -1.19E-03 uCi/Sa			
2 JTR2P-1-AA J7D120254-3-SAMP 04/11/2007 09:50	1999.60g,in						G12	2134		
	AmtRec: 20ML,500ML,3X4LP	#Containers: 5		Scr:	Alpha: -2.89E-03 uCi/Sa		Beta: 2.70E-03 uCi/Sa			
3 JTR2Q-1-AA J7D120254-4-SAMP 04/11/2007 12:35	2001.40g,in						G13	2135		
	AmtRec: 20ML,500ML,4LP	#Containers: 3		Scr:	Alpha: 8.51E-05 uCi/Sa		Beta: 1.73E-04 uCi/Sa			
4 JTR2R-1-AA J7D120254-5-SAMP 04/11/2007 13:42	1981.90g,in						G6	2136		
	AmtRec: 20ML,500ML,3X4LP	#Containers: 5		Scr:	Alpha: 2.80E-04 uCi/Sa		Beta: 1.22E-03 uCi/Sa			
5 JTR2R-1-AE-X J7D120254-5-DUP 04/11/2007 13:42	1976.90g,in						G8	2137		
	AmtRec: 20ML,500ML,3X4LP	#Containers: 5		Scr:	Alpha: 2.80E-04 uCi/Sa		Beta: 1.22E-03 uCi/Sa			
6 JT33E-1-AA-B J7D170000-450-BLK 04/11/2007 13:42	1897.20g,in						G7	2137		
	AmtRec:	#Containers: 1		Scr:	Alpha:		Beta:			
7 JT33E-1-AC-C J7D170000-450-LCS 04/11/2007 13:42	1997.70g,in	QCAG1360 03/23/07,pd 03/07/05,r					G5	2136		
	AmtRec:	#Containers: 1		Scr:	Alpha:		Beta:			

REVISION 1

STL Richland
Richland Wa.

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

ISV - Insufficient Volume for Analysis

WO Cnt: 7

Prep_SamplePrep v4.8.26

STL RICHLAND

123

5/11/2007 10:36:57 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 05/28/2007

Sep1 DT/Tm Tech:

Batch: 7107450 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 93 5-11-07

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

JTR2J1AA-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:

JT33E1AA-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:

JT33E1AC-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						

JTR2J1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JT33E1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JT33E1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

REVISION 1

REVISION 1

SEVERN TRENT STL

*** RE-COUNT REQUEST ***

DUE DATE 5/28/07

CUSTOMER PGW

ANALYSIS Gamma

MATRIX Water

LOT NUMBER J7D120251

SAMPLE DELIVERY GROUP

OLD BATCH NUMBER 7107450

	LAB SAMPLE ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1)	JT335 - IACC	60Co 60Co
2)		
3)		
4)		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		
13)		
14)		
15)		
16)		
17)		
18)		
19)		
20)		

Sample Preparation/Analysis

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

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

AnalyDueDate: 05/28/2007

Batch: 7107450 pCi/L
SEQ Batch, Test: None

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 JT33E-2-AC-C J7D170000-450-LCS 04/11/2007 13:42		1997.70g	QCAG 1360	100ml	100 min		G10	1624	5/24/07 r	

AmtRec: #Containers: 1 Scr: Alpha: Beta:

Comments:

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

JTR2J1AA-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:

JT33E1AA-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:

JT33E1AC-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						

JT33E2AC-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						

JTR2J1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JT33E1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

REVISION 1

ICOC Fraction Transfer/Status Report

REVISION 1

ByDate: 5/25/2006, 5/30/2007, Batch: '7107450', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7107450						
AC		CalcC	BockJ	5/11/2007 10:29:08		
SC			wagarr	IsBatched	4/17/2007 3:39:18 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	5/11/2007 10:29:08 AM	RICH-RC-5014 Revision 6
SC			BockJ	Prep1C	5/11/2007 10:36:57 AM	RICH-RC-5017 REVISION 5
SC			AshworthA	InPrep2	5/18/2007 10:32:40 AM	RICH-RC-5017 REVISION 4
SC			AshworthA	Prep2C	5/21/2007 3:48:13 PM	RICH-RC-5017 REVISION 4
SC			DAWKINSO	InCnt1	5/21/2007 4:38:04 PM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	CalcC	5/21/2007 9:55:58 PM	RICH-RD-0007 REVISION 5
SC			StringerR	InCnt1	5/24/2007 2:43:35 PM	RICH-RD-0007 REVISION 5
SC			StringerR	CalcC	5/24/2007 5:07:25 PM	RICH-RD-0007 REVISION 5
AC			BockJ	5/11/2007 10:36:57		
AC			AshworthA	5/18/2007 10:32:40		
AC			AshworthA	5/21/2007 3:48:13 PM		
AC			DAWKINSO	5/21/2007 4:38:04 PM		
AC			DAWKINSO	5/21/2007 9:55:58 PM		
AC			StringerR	5/24/2007 2:43:35 PM		
AC			StringerR	5/24/2007 5:07:25 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 8

ICOCFractions v4.8.26

STL RICHLAND

5/17/2007 1:59:19 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 05/28/2007 205155

Batch: 7107427 **WATER** **pCi/L**
SEQ Batch, Test: None

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

PM, Quote: SA , 57671

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

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JTR2J-1-AC J7D120254-2-SAMP 04/11/2007 11:10	3949.00g,in	ITA6241 05/08/07		36.3	100	L2	1811		5/24/07 r	
	AmtRec: 20ML,2X500ML,3X4LP	#Containers: 6					Scr:	Alpha: 7.29E-04 uCi/Sa		Beta: -1.19E-03 uCi/Sa
2 JTR2P-1-AC J7D120254-3-SAMP 04/11/2007 09:50	3932.10g,in	ITA6242 05/08/07		36.3		L4	1814		5/24/07 r	
	AmtRec: 20ML,500ML,3X4LP	#Containers: 5					Scr:	Alpha: -2.89E-03 uCi/Sa		Beta: 2.70E-03 uCi/Sa
3 JTR2R-1-AC J7D120254-5-SAMP 04/11/2007 13:42	3904.80g,in	ITA6243 05/08/07		37.2		L5	1814		5/24/07 r	
	AmtRec: 20ML,500ML,3X4LP	#Containers: 5					Scr:	Alpha: 2.80E-04 uCi/Sa		Beta: 1.22E-03 uCi/Sa
4 JTR3K-1-AC J7D120262-1-SAMP 04/11/2007 08:58	3871.90g,in	ITA6244 05/08/07		36.9		L2	1956		5/24/07 r	
	AmtRec: 20ML,2X500ML,LP,2X4LP	#Containers: 6					Scr:	Alpha: 5.93E-04 uCi/Sa		Beta: -8.01E-04 uCi/Sa
5 JTR3P-1-AC J7D120262-2-SAMP 04/11/2007 12:06	3934.20g,in	ITA6245 05/08/07		36.5		L4	1959		5/24/07 r	
	AmtRec: 20ML,2X500ML,LP,2X4LP	#Containers: 6					Scr:	Alpha: 9.56E-04 uCi/Sa		Beta: 1.48E-04 uCi/Sa
6 JTR3V-1-AC J7D120262-3-SAMP 04/11/2007 10:51	3922.00g,in	ITA6246 05/08/07		37.0		L5	2000		5/24/07 r	
	AmtRec: 20ML,2X500ML,LP,2X4LP	#Containers: 6					Scr:	Alpha: -8.69E-04 uCi/Sa		Beta: 1.33E-03 uCi/Sa
7 JTR3V-1-AF-X J7D120262-3-DUP 04/11/2007 10:51	3927.70g,in	ITA6247 05/08/07		35.0		L2	2148		5/24/07 r	
	AmtRec: 20ML,2X500ML,LP,2X4LP	#Containers: 6					Scr:	Alpha: -8.69E-04 uCi/Sa		Beta: 1.33E-03 uCi/Sa

REVISION 1

STL RICHLAND

5/17/2007 1:59:22 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory , Pacific Northwest National Lab

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 05/28/2007

Sep1 DT/Tm Tech:

Batch: 7107427 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JT1KV-1-AC J7D160185-1-SAMP 04/13/2007 13:17		3912.30g,in AmtRec: 20ML,2X500ML,LP,2X4LP #Containers: 6	ITA6248 05/08/07		34.2	100	L4	2151 Scr: Alpha: 2.47E-03 uCi/Sa	5/24/07 R Beta: -1.75E-03 uCi/Sa	
9 JT1K7-1-AC J7D160185-2-SAMP 04/13/2007 11:47		3948.60g,in AmtRec: 20ML,2X500ML,LP,2X4LP #Containers: 6	ITA6249 05/08/07		37.3		L5	2152 Scr: Alpha: 9.00E-04 uCi/Sa	5/24/07 R Beta: -1.40E-03 uCi/Sa	
10 JT31L-1-AA-B J7D170000-427-BLK 04/11/2007 10:51		3950.20g,in AmtRec: #Containers: 1	ITA6250 05/08/07		36.3		L2	0947 Scr: Alpha:	5/25/07 R Beta:	
11 JT31L-1-AC-C J7D170000-427-LCS 04/11/2007 10:51		3771.80g,in AmtRec: #Containers: 1	ISD0746 04/25/07,pd 04/11/07,r		38.3		L4	0949 Scr: Alpha:	5/25/07 R Beta:	

Comments: pH neutral JB 5-17-07

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

JTR2J1AC-SAMP Constituent List:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
JT31L1AA-BLK:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
JT31L1AC-LCS:
I-129 RDL:5 pCi/L LCL:70 UCL:130 RPD:20
JTR2J1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

REVISION 1

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 05/28/2007

Sep1 DT/Tm Tech:

Batch: 7107427 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:

JT31L1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JT31L1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

REVISION 1

STL RICHLAND
130

REVISION 1

ICOC Fraction Transfer/Status Report

ByDate: 5/29/2006, 6/3/2007, Batch: '7107427', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7107427						
AC		CalcC	BockJ	5/17/2007 1:35:08 PM		
SC			wagarr	isBatched	4/17/2007 3:39:18 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	5/17/2007 1:35:08 PM	RICH-RC-5016 Revision 6
SC			BockJ	Prep1C	5/17/2007 2:00:24 PM	RICH-RC-5017 REVISION 5
SC			BostedD	InPrep2	5/21/2007 6:02:40 PM	RICHRC5025 REV3
SC			BostedD	InPrep2	5/24/2007 4:18:00 PM	RICHRC5025 REV3
SC			BostedD	Prep2C	5/24/2007 4:18:29 PM	RICHRC5025 REV3
SC			StringerR	InCnt1	5/24/2007 4:23:35 PM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	CalcC	5/25/2007 9:01:12 PM	RICH-RD-0007 REVISION 5
AC			**BockJ**	5/17/2007 2:00:24 PM		
AC			**BostedD**	5/21/2007 6:02:40 PM		
AC			**BostedD**	5/24/2007 4:18:00 PM		
AC			**BostedD**	5/24/2007 4:18:29 PM		
AC			**StringerR**	5/24/2007 4:23:35 PM		
AC			**DAWKINSO**	5/25/2007 9:01:12 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.26

REVISION 1

SEVERN TRENT STL

*** RE-COUNT REQUEST ***

DUE DATE 7/28/07

CUSTOMER PGW

ANALYSIS TCN9

MATRIX Water

LOT NUMBER J7D120252

SAMPLE DELIVERY GROUP

OLD BATCH NUMBER 7145214

	LAB SAMPLE ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1)	TSIP out.	
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STL RICHLAND

5/29/2007 2:25:20 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 05/28/2007

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

Batch: 7149507 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

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:

1 JTR2J-2-AF-S
J7D120254-2-MS
04/11/2007 11:10 AmtRec: 20ML,2X500ML,3X4LP #Containers: 6 Scr: Alpha: 7.29E-04 uCi/Sa Beta: -1.19E-03 uCi/Sa

2 JTR2J-4-AD
J7D120254-2-SAMP
04/11/2007 11:10 AmtRec: 20ML,2X500ML,3X4LP #Containers: 6 Scr: Alpha: 7.29E-04 uCi/Sa Beta: -1.19E-03 uCi/Sa

3 JTR2P-2-AE-X
J7D120254-3-DUP
04/11/2007 09:50 AmtRec: 20ML,500ML,3X4LP #Containers: 5 Scr: Alpha: -2.89E-03 uCi/Sa Beta: 2.70E-03 uCi/Sa

4 JTR2P-4-AD
J7D120254-3-SAMP
04/11/2007 09:50 AmtRec: 20ML,500ML,3X4LP #Containers: 5 Scr: Alpha: -2.89E-03 uCi/Sa Beta: 2.70E-03 uCi/Sa

5 JTR2Q-4-AC
J7D120254-4-SAMP
04/11/2007 12:35 AmtRec: 20ML,500ML,4LP #Containers: 3 Scr: Alpha: 8.51E-05 uCi/Sa Beta: 1.73E-04 uCi/Sa

6 JTR2R-4-AD
J7D120254-5-SAMP
04/11/2007 13:42 AmtRec: 20ML,500ML,3X4LP #Containers: 5 Scr: Alpha: 2.80E-04 uCi/Sa Beta: 1.22E-03 uCi/Sa

7 JTR3K-4-AD
J7D120262-1-SAMP
04/11/2007 08:58 AmtRec: 20ML,2X500ML,LP,2X4LP #Containers: 6 Scr: Alpha: 5.93E-04 uCi/Sa Beta: -8.01E-04 uCi/Sa

REVISION 1

STL RICHLAND

5/29/2007 2:25:22 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 05/28/2007

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

Batch: 7149507 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

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:

8 JTR3P-4-AD
J7D120262-2-SAMP
04/11/2007 12:06 AmtRec: 20ML,2X500ML,LP,2X4LP #Containers: 6 Scr: Alpha: 9.56E-04 uCi/Sa Beta: 1.48E-04 uCi/Sa

9 JTR3V-4-AD
J7D120262-3-SAMP
04/11/2007 10:51 AmtRec: 20ML,2X500ML,LP,2X4LP #Containers: 6 Scr: Alpha: -8.69E-04 uCi/Sa Beta: 1.33E-03 uCi/Sa

10 JTR35-4-AA
J7D120262-4-SAMP
04/11/2007 09:51 AmtRec: 20ML,2X500MLP #Containers: 3 Scr: Alpha: 1.33E-04 uCi/Sa Beta: -6.80E-05 uCi/Sa

11 JTWXG-4-AA
J7D130275-1-SAMP
04/12/2007 13:04 AmtRec: 20ML,500MLP #Containers: 2 Scr: Alpha: 3.49E-05 uCi/Sa Beta: 7.22E-05 uCi/Sa

12 JT1KV-4-AD
J7D160185-1-SAMP
04/13/2007 13:17 AmtRec: 20ML,2X500ML,LP,2X4LP #Containers: 6 Scr: Alpha: 2.47E-03 uCi/Sa Beta: -1.75E-03 uCi/Sa

13 JT1K7-4-AD
J7D160185-2-SAMP
04/13/2007 11:47 AmtRec: 20ML,2X500ML,LP,2X4LP #Containers: 6 Scr: Alpha: 9.00E-04 uCi/Sa Beta: -1.40E-03 uCi/Sa

14 JXPPX-2-AA-B
J7E250000-214-BLK
04/11/2007 11:10 AmtRec: #Containers: 1 Scr: Alpha: Beta:

REVISION 1

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: 05/28/2007

Batch: 7149507 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 JXPPX-2-AC-C
J7E250000-214-LCS
04/11/2007 11:10 AmtRec: #Containers: 1 Scr: Alpha: Beta:

16 JXPPX-2-AD-BN
J7E250000-214-IBLK
04/11/2007 11:10 AmtRec: #Containers: 1 Scr: Alpha: Beta:

17 JXPPX-2-AE-BN
J7E250000-214-IBLK
04/11/2007 11:10 AmtRec: #Containers: 1 Scr: Alpha: Beta:

Comments: JTR3K-SAMP "Comments. All out of sample labeled for tech. Poured aliquot from sample for unat. JB 05/25/07"
JTR3P-SAMP "Comments. All out of sample labeled for tech. Poured aliquot from sample for unat. JB 05/25/07"

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

JTR2J2AF-MS Constituent List:

JXPPX2AA-BLK:
  Tc-99       RDL:15          pCi/L     LCL:        UCL:        RPD:
JXPPX2AC-LCS:
  Tc-99       RDL:15          pCi/L     LCL:70      UCL:130     RPD:20
JXPPX2AD-IBLK:
  Tc-99       RDL:15          pCi/L     LCL:        UCL:        RPD:
JXPPX2AE-IBLK:
  Tc-99       RDL:15          pCi/L     LCL:        UCL:        RPD:
JTR2J2AF-MS Calc Info:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

REVISION 1

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: 05/28/2007

Batch: 7149507 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:

JXPPX2AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JXPPX2AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JXPPX2AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JXPPX2AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

REVISION 1

5/31/2007 9:41:40 AM

ICOC Fraction Transfer/Status Report

REVISION 1

ByDate: 5/31/2006, 6/5/2007, Batch: '7149507', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7149507						
AC		**CalcC**	**BlackCL**	5/29/2007 2:28:24 PM		
SC			antonsonl	IsBatched	5/29/2007 1:52:51 PM	ICOC_RADCALC v4.8.26
SC			BlackCL	InCnt1	5/29/2007 2:28:24 PM	RICH-RD-0001 REVISION 3
SC			BlackCL	CalcC	5/31/2007 6:13:21 AM	RICH-RD-0001 REVISION 3
AC			**BlackCL**	5/31/2007 6:13:21		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 2

ICOCFractions v4.8.26

STL RICHLAND

4/26/2007 12:52:57 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 05/28/2007 W05155

Batch: 7107449 **WATER** **pCi/L**
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 **JTW0C-1-AC** J7D130281-1-SAMP 04/12/2007 12:21		125.10g,in AmtRec: 20ML,500ML,4XLP #Containers: 6		60			Scr: Alpha: -2.63E-04 uCi/Sa	Beta: 1.69E-04 uCi/Sa
2 **JTW0C-1-AE-S** J7D130281-1-MS 04/12/2007 12:21		125.80g,in AmtRec: 20ML,500ML,4XLP #Containers: 6	TCSG1796 02/28/07,pd 01/10/06,r				Scr: Alpha: -2.63E-04 uCi/Sa	Beta: 1.69E-04 uCi/Sa
3 **JTW0C-1-AF-X** J7D130281-1-DUP 04/12/2007 12:21		125.20g,in AmtRec: 20ML,500ML,4XLP #Containers: 6					Scr: Alpha: -2.63E-04 uCi/Sa	Beta: 1.69E-04 uCi/Sa
4 **JT33A-1-AA-B** J7D170000-449-BLK 04/12/2007 12:21		126.60g,in AmtRec: #Containers: 1					Scr: Alpha:	Beta:
5 **JT33A-1-AC-C** J7D170000-449-LCS 04/12/2007 12:21		125.40g,in AmtRec: #Containers: 1	TCSE2103 04/05/07,pd 01/10/06,r				Scr: Alpha:	Beta:
6 **JT33A-1-AD-BN** J7D170000-449-IBLK 04/12/2007 12:21		AmtRec: #Containers: 1					Scr: Alpha:	Beta:

REVISION 1

4/26/2007 12:53:04 PM

Sample Preparation/Analysis

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

AnalyDueDate: 05/28/2007

Batch: 7107449 pCi/L
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:

Comments: PH<2.0 JS 4-26-07

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

JTW0C1AC-SAMP Constituent List:
Tc-99 RDL:1.50E+01 pCi/L LCL:70 UCL:130 RPD:20
JTW0C1AE-MS Constituent List:

JT33A1AA-BLK:
Tc-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:
JT33A1AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
JT33A1AD-IBLK:
Tc-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:

JTW0C1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JTW0C1AE-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JT33A1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JT33A1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JT33A1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

REVISION 1

5/15/2007 2:07:20 PM

REVISION 1

ICOC Fraction Transfer/Status Report

ByDate: 5/15/2006, 5/20/2007, Batch: '7107449', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7107449						
AC		CalcC	BockJ	4/26/2007 12:47:52		
SC			wagarr	IsBatched	4/17/2007 3:39:18 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	4/26/2007 12:47:52 PM	RICH-RC-5017 Revision 5
SC			FABREM	InSep1	4/26/2007 1:16:57 PM	RICH-RC-5078 REVISION 3
SC			FABREM	Sep1C	5/1/2007 12:37:28 PM	RICH-RC-5078 REVISION 3
SC			StringerR	CalcC	5/2/2007 8:24:04 AM	RICH-RD-0001 REVISION 3
AC			FABREM	4/26/2007 1:16:57 PM		
AC			FABREM	5/1/2007 12:37:28 PM		
AC			StringerR	5/2/2007 8:24:04 AM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.26

STL RICHLAND

4/17/2007 3:28:27 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

Balance Id: 13445
Pipet #:

AnalyDueDate: 05/28/2007 W0515 5

Sep1 DT/Tm Tech: 5-8 07 tm

Batch: 7107454 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

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 JTR3K-1-AA

J7D120262-1-SAMP

04/11/2007 08:58 AmtRec: 20ML,2X500ML,LP,2X4LP #Containers: 6 Scr: Alpha: 5.93E-04 uCi/Sa Beta: -8.01E-04 uCi/Sa

2 JTR3P-1-AA

J7D120262-2-SAMP

04/11/2007 12:06 AmtRec: 20ML,2X500ML,LP,2X4LP #Containers: 6 Scr: Alpha: 9.56E-04 uCi/Sa Beta: 1.48E-04 uCi/Sa

3 JTR3V-1-AA

J7D120262-3-SAMP

04/11/2007 10:51 AmtRec: 20ML,2X500ML,LP,2X4LP #Containers: 6 Scr: Alpha: -8.69E-04 uCi/Sa Beta: 1.33E-03 uCi/Sa

4 JT1KV-1-AA

J7D160185-1-SAMP

04/13/2007 13:17 AmtRec: 20ML,2X500ML,LP,2X4LP #Containers: 6 Scr: Alpha: Beta:

5 JT1KV-1-AG-X

J7D160185-1-DUP

04/13/2007 13:17 AmtRec: 20ML,2X500ML,LP,2X4LP #Containers: 6 Scr: Alpha: Beta:

6 JT1K7-1-AA

J7D160185-2-SAMP

04/13/2007 11:47 AmtRec: 20ML,2X500ML,LP,2X4LP #Containers: 6 Scr: Alpha: Beta:

7 JT33Q-1-AA-B

J7D170000-454-BLK

04/13/2007 13:17 AmtRec: #Containers: 1 Scr: Alpha: Beta:

REVISION 1

STL RICHLAND

4/17/2007 3:28:30 PM

Sample Preparation/Analysis

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

Balance Id: 1945
Pipet #:
Sep1 DT/Tm Tech: 5-8 0700
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 05/28/2007

Batch: 7107454 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 JT33Q-1-AC-C
J7D170000-454-LCS
04/13/2007 13:17 AmtRec: #Containers: 1 Scr: Alpha: Beta:

9 JT33Q-1-AD-BX
J7D170000-454-MBLK
04/13/2007 13:17 AmtRec: #Containers: 1 Scr: Alpha: Beta:

10 JT33Q-1-AE-CM
J7D170000-454-MLCS
04/13/2007 13:17 AmtRec: #Containers: 1 Scr: Alpha: Beta:

11 JT33Q-1-AF-BN
J7D170000-454-IBLK
04/13/2007 13:17 AmtRec: #Containers: 1 Scr: Alpha: Beta:

12 JT33Q-1-AG-BN
J7D170000-454-IBLK
04/13/2007 13:17 AmtRec: #Containers: 1 Scr: Alpha: Beta:

Comments:

REVISION 1

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

JTR3K1AA-SAMP Constituent List:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20

Sample Preparation/Analysis

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

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

AnalyDueDate: 05/28/2007

Batch: 7107454 **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:

```
JT33Q1AA-BLK:
  H-3          RDL:400          pCi/L      LCL:          UCL:          RPD:
JT33Q1AC-LCS:
  H-3          RDL:400          pCi/L      LCL:70        UCL:130       RPD:20
JT33Q1AD-MBLK:
  H-3          RDL:400          pCi/L      LCL:          UCL:          RPD:
JT33Q1AE-MLCS:
  H-3          RDL:400          pCi/L      LCL:70        UCL:130       RPD:20
JT33Q1AF-IBLK:
  H-3          RDL:400          pCi/L      LCL:          UCL:          RPD:
JT33Q1AG-IBLK:
  H-3          RDL:400          pCi/L      LCL:          UCL:          RPD:
JTR3K1AA-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JT33Q1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JT33Q1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JT33Q1AD-MBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JT33Q1AE-MLCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JT33Q1AF-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JT33Q1AG-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

REVISION 1

STL RICHLAND

REVISION 1

5/11/2007 4:59:26 PM

ICOC Fraction Transfer/Status Report

ByDate: 5/11/2006, 5/16/2007, Batch: '7107454', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
7107454							
AC			**CalcC**	**McDowellD**	5/8/2007 8:26:03 AM		
SC				wagarr	IsBatched	4/17/2007 3:39:18 PM	ICOC_RADCALC v4.8.26
SC				McDowellD	InSep1	5/8/2007 8:26:03 AM	RICH-RC-5007 REVISION 6
SC				McDowellD	Sep1C	5/8/2007 2:30:28 PM	RICH-RC-5007 REVISION 6
SC				BlackCL	InCnt1	5/8/2007 2:34:03 PM	RICH-RD-0003 REVISION 4
SC				BlackCL	CalcC	5/10/2007 6:42:19 AM	RICH-RD-0001 REVISION 3
AC				**McDowellD**	5/8/2007 2:30:28 PM		
AC				**BlackCL**	5/8/2007 2:34:03 PM		
AC				**BlackCL**	5/10/2007 6:42:19		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.26

REVISION 1

7/24/07

SEVERN TRENT STL

*** RE-COUNT REQUEST ***

DUE DATE 5/28/07

CUSTOMER PGW

ANALYSIS H-3 EE

MATRIX Water

LOT NUMBER JT7D120254

SAMPLE DELIVERY GROUP WO5155

OLD BATCH NUMBER 7/07458

	LAB SAMPLE ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1)	All	high blk, dups out
2)		
3)		
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19)		
20)		

STL RICHLAND

5/4/2007 10:40:29 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 05/28/2007 W05155

Batch: 7124264 **WATER** **pCi/L**
SEQ Batch, Test: None

AS H-3 Prp/SepRC5024
U3 Enriched Tritium by Liquid Scint
5I CLIENT: HANFORD

PM, Quote: SA , 57671

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 JTR2G-2-AD J7D120254-1-SAMP 04/11/2007 11:10	AmtRec: 20ML,4XLP	#Containers: 5				Scr:	Alpha: -5.49E-04 uCi/Sa	Beta: 4.86E-04 uCi/Sa
2 JTR2G-2-AE-X J7D120254-1-DUP 04/11/2007 11:10	AmtRec: 20ML,4XLP	#Containers: 5				Scr:	Alpha: -5.49E-04 uCi/Sa	Beta: 4.86E-04 uCi/Sa
3 JT33X-2-AA-B J7D170000-458-BLK 04/11/2007 11:10	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
4 JT33X-2-AC-C J7D170000-458-LCS 04/11/2007 11:10	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
5 JT33X-2-AD-B J7D170000-458-BLK 04/11/2007 11:10	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments:

REVISION 1

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

JTR2G2AD-SAMP Constituent List:
H-3 RDL:1.00E+01 pCi/L LCL:70 UCL:130 RPD:20

Sample Preparation/Analysis

AS H-3 Prp/SepRC5024
U3 Enriched Tritium by Liquid Scint
5I CLIENT: HANFORD

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

AnalyDueDate: 05/28/2007

Batch: 7124264 **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:

```
JT33X2AA-BLK:
  H-3          RDL:10          pCi/L     LCL:        UCL:        RPD:
JT33X2AC-LCS:
  H-3          RDL:10          pCi/L     LCL:70      UCL:130     RPD:20
JT33X2AD-BLK:
  H-3          RDL:10          pCi/L     LCL:        UCL:        RPD:
JTR2G2AD-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JT33X2AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JT33X2AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JT33X2AD-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

REVISION 1

STL RICHLAND
147

REVISION 1

ICOC Fraction Transfer/Status Report

ByDate: 5/7/2006, 5/12/2007, Batch: '7124264', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting		Comments
7124264					
AC		**CalcC**	**BlackCL**	5/4/2007 10:53:29	
SC			BlackCL	InCnt1 5/4/2007 10:53:29 AM	RICH-RD-0001 REVISION 3
SC			BlackCL	CalcC 5/7/2007 7:14:43 AM	RICH-RD-0001 REVISION 3
AC			**BlackCL**	5/7/2007 7:14:43 AM	

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 2

ICOCFractions v4.8.26

STL RICHLAND

4/17/2007 3:28:42 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 05/28/2007 W0S155

5S C-14 Prp/SepRC5022
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

Batch: 7107463 **WATER** **pCi/L**
SEQ Batch, Test: None

PM, Quote: SA , 57671

Balance Id: N/A
Pipet #:
Sep1 DT/Tm Tech: 4-20-07
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 JTWVN-1-AA J7D130267-1-SAMP 04/12/2007 13:04		AmtRec: 20ML,5XLP	#Containers: 6			Scr:	Alpha: 1.13E-06 uCi/Sa	Beta: 3.11E-07 uCi/Sa
2 JTWVN-1-AD-X J7D130267-1-DUP 04/12/2007 13:04		AmtRec: 20ML,5XLP	#Containers: 6			Scr:	Alpha: 1.13E-06 uCi/Sa	Beta: 3.11E-07 uCi/Sa
3 JTWVP-1-AA J7D130267-2-SAMP 04/12/2007 12:43		AmtRec: 20ML,5XLP	#Containers: 6			Scr:	Alpha: 1.10E-06 uCi/Sa	Beta: -4.46E-08 uCi/Sa
4 JTWWH-1-AA J7D130267-3-SAMP 04/12/2007 12:25		AmtRec: 20ML,5XLP	#Containers: 6			Scr:	Alpha: 1.18E-06 uCi/Sa	Beta: -3.98E-07 uCi/Sa
5 JT330-1-AA-B J7D170000-463-BLK 04/12/2007 13:04		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 JT330-1-AC-C J7D170000-463-LCS 04/12/2007 13:04		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
7 JT330-1-AD-BN J7D170000-463-IBLK 04/12/2007 13:04		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

REVISION 1

Sample Preparation/Analysis

5S C-14 Prp/SepRC5022
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

AnalyDueDate: 05/28/2007

Batch: 7107463 pCi/L
SEQ Batch, Test: None

Balance Id: N/A
Pipet #:
Sep1 DT/Tm Tech: 4-2007 am
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:

Comments:

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

JTWVN1AA-SAMP Constituent List:
C-14 RDL:2.00E+02 pCi/L LCL:70 UCL:130 RPD:20
JT3301AA-BLK:
C-14 RDL:2.00E+02 pCi/L LCL: UCL: RPD:
JT3301AC-LCS:
C-14 RDL:200 pCi/L LCL:70 UCL:130 RPD:20
JT3301AD-IBLK:
C-14 RDL:2.00E+02 pCi/L LCL: UCL: RPD:

JTWVN1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JT3301AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JT3301AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JT3301AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

REVISION 1

STL RICHLAND

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REVISION 1

ICOC Fraction Transfer/Status Report

ByDate: 4/25/2006, 4/30/2007, Batch: '7107463', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
7107463							
AC			**CalcC**	**McDowellD**	4/18/2007 2:39:49 PM		
SC				wagarr	IsBatched	4/17/2007 3:39:18 PM	ICOC_RADCALC v4.8.26
SC				McDowellD	InPrep	4/18/2007 2:39:49 PM	RICH-RC-5022 REVISION 3
SC				McDowellD	Sep1C	4/23/2007 12:54:17 PM	RICH-RC-5022 REVISION 3
SC				BlackCL	InCnt1	4/23/2007 12:56:10 PM	RICH-RD-0001 REVISION 3
SC				BlackCL	CalcC	4/24/2007 7:45:38 AM	RICH-RD-0001 REVISION 3
AC				**McDowellD**	4/23/2007 12:54:17		
AC				**BlackCL**	4/23/2007 12:56:10		
AC				**BlackCL**	4/24/2007 7:45:38		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.26

STL RICHLAND

5/16/2007 5:10:17 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: 05/28/2007 W005155

Batch: 7107426 **WATER** **ug/L**
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 **JTR2J-1-AE** J7D120254-2-SAMP 04/11/2007 11:10		26.20g,in AmtRec: 20ML,2X500ML,3X4LP #Containers: 6				Scr: Alpha: 7.29E-04 uCi/Sa		Beta: -1.19E-03 uCi/Sa
2 **JTR3K-1-AE** J7D120262-1-SAMP 04/11/2007 08:58		26.00g,in AmtRec: 20ML,2X500ML,LP,2X4LP #Containers: 6				Scr: Alpha: 5.93E-04 uCi/Sa		Beta: -8.01E-04 uCi/Sa
3 **JTR3P-1-AE** J7D120262-2-SAMP 04/11/2007 12:06		26.70g,in AmtRec: 20ML,2X500ML,LP,2X4LP #Containers: 6				Scr: Alpha: 9.56E-04 uCi/Sa		Beta: 1.48E-04 uCi/Sa
4 **JTR3V-1-AE** J7D120262-3-SAMP 04/11/2007 10:51		24.00g,in AmtRec: 20ML,2X500ML,LP,2X4LP #Containers: 6				Scr: Alpha: -8.69E-04 uCi/Sa		Beta: 1.33E-03 uCi/Sa
5 **JTR35-1-AC** J7D120262-4-SAMP 04/11/2007 09:51		25.80g,in AmtRec: 20ML,2X500MLP #Containers: 3				Scr: Alpha: 1.33E-04 uCi/Sa		Beta: -6.80E-05 uCi/Sa
6 **JTW0C-1-AD** J7D130281-1-SAMP 04/12/2007 12:21		26.90g,in AmtRec: 20ML,500ML,4XLP #Containers: 6				Scr: Alpha: -2.63E-04 uCi/Sa		Beta: 1.69E-04 uCi/Sa
7 **JT1KV-1-AE** J7D160185-1-SAMP 04/13/2007 13:17		25.10g,in AmtRec: 20ML,2X500ML,LP,2X4LP #Containers: 6				Scr: Alpha: 2.47E-03 uCi/Sa		Beta: -1.75E-03 uCi/Sa

REVISION 1

STL RICHLAND

5/16/2007 5:10:20 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: 05/28/2007

Sep1 DT/Tm Tech:

Batch: 7107426 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 JT1KV-1-AF-X J7D160185-1-DUP 04/13/2007 13:17		26.10g,in AmtRec: 20ML,2X500ML,LP,2X4LP	#Containers: 6			Scr:	Alpha: 2.47E-03 uCi/Sa	Beta: -1.75E-03 uCi/Sa
9 JT1K7-1-AE J7D160185-2-SAMP 04/13/2007 11:47		24.50g,in AmtRec: 20ML,2X500ML,LP,2X4LP	#Containers: 6			Scr:	Alpha: 9.00E-04 uCi/Sa	Beta: -1.40E-03 uCi/Sa
10 JT1K7-1-AF-S J7D160185-2-MS 04/13/2007 11:47		26.50g,in AmtRec: 20ML,2X500ML,LP,2X4LP	unsf3720 05/09/07,pd 01/23/07,r #Containers: 6			Scr:	Alpha: 9.00E-04 uCi/Sa	Beta: -1.40E-03 uCi/Sa
11 JT31E-1-AA-B J7D170000-426-BLK 04/13/2007 13:17		25.80g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
12 JT31E-1-AC-C J7D170000-426-LCS 04/13/2007 13:17		26.10g,in AmtRec:	unsf3721 05/09/07,pd 01/23/07,r #Containers: 1			Scr:	Alpha:	Beta:
13 JT31E-1-AD-C J7D170000-426-LCS 04/13/2007 13:17		25.60g,in AmtRec:	unsc1681 05/08/07,pd 04/28/06,r #Containers: 1			Scr:	Alpha:	Beta:

REVISION 1

5/16/2007 5:10:25 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 05/28/2007

Sep1 DT/Tm Tech:

Batch: 7107426 **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:

Comments: pH < 2.0 gb 5-16-07

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

JTR2J1AE-SAMP Constituent List:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
JT1K71AF-MS:

JT31E1AA-BLK:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
JT31E1AC-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20
JT31E1AD-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20

JTR2J1AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JT1K71AF-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JT31E1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JT31E1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JT31E1AD-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

REVISION 1

REVISION 1

ICOC Fraction Transfer/Status Report

ByDate: 5/24/2006, 5/29/2007, Batch: '7107426', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
7107426							
AC			Cnt1C	BockJ	5/16/2007 5:02:06 PM		
SC				wagarr	IsBatched	4/17/2007 3:39:18 PM	ICOC_RADCALC v4.8.26
SC				BockJ	InPrep	5/16/2007 5:02:06 PM	RICH-RC-5014 Revision 6
SC				BockJ	Prep1C	5/16/2007 5:10:22 PM	RICH-RC-5015 REVISION 4
SC				AshworthA	InPrep2	5/18/2007 11:44:44 AM	RICH-RC-5015 REVISION 4
SC				AshworthA	Prep2C	5/21/2007 6:38:47 PM	RICH-RC-5015 REVISION 4
SC				NelsonT	Cnt1C	5/22/2007 10:57:28 AM	RICH-RC-5058 REV 7
AC				**BockJ**	5/16/2007 5:10:22 PM		
AC				**AshworthA**	5/18/2007 11:44:44		
AC				**AshworthA**	5/21/2007 6:38:47 PM		
AC				**NelsonT**	5/22/2007 10:57:28		

AC: Accepting Entry; SC: Status Change