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Analytical Data Package Prepared For

Pacific Northwest National Lab

Radiochemical Analysis By

STL Richland STLRL

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

Data Package Contains _____ Pages

Report Nbr: 34890

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05122	W07-002	B1M916	J7B180102-1	JPMDK1AA	9JPMDK10	7053474
		B1M916	J7B180102-1	JPMDK1AC	9JPMDK10	7053478
		B1M916	J7B180102-1	JPMDK1AD	9JPMDK10	7053472
		B1M941	J7B180102-2	JPMDL1AA	9JPMDL10	7053474
		B1M941	J7B180102-2	JPMDL1AC	9JPMDL10	7053472
		B1M942	J7B180102-3	JPMDM1AA	9JPMDM10	7053474
		B1M942	J7B180102-3	JPMDM1AC	9JPMDM10	7053472
		B1M937	J7B180102-4	JPMDN1AA	9JPMDN10	7053472
	I07-27	B1M6N6	J7B180103-1	JPMDP1AA	9JPMDP10	7053478
		B1M6M1	J7B180103-2	JPMDQ1AA	9JPMDQ10	7053474
		B1M6M1	J7B180103-2	JPMDQ1AC	9JPMDQ10	7053478
		B1M6M1	J7B180103-2	JPMDQ1AD	9JPMDQ10	7053472
		B1M6M2	J7B180103-3	JPMDR1AA	9JPMDR10	7053474
		B1M6M2	J7B180103-3	JPMDR1AC	9JPMDR10	7053478
		B1M6M2	J7B180103-3	JPMDR1AD	9JPMDR10	7053472

Comments:

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Report Nbr: 34890

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05122	I07-27	B1M6V2	J7B180103-4	JPMDT1AA	9JPMDT10	7053474
		B1M6V2	J7B180103-4	JPMDT1AC	9JPMDT10	7053478
		B1M6V2	J7B180103-4	JPMDT1AD	9JPMDT10	7053472
	I07-014	B1LK59	J7B180104-1	JPMDV1AA	9JPMDV10	7053474
		B1LK59	J7B180104-1	JPMDV1AC	9JPMDV10	7053481
		B1LK63	J7B180104-2	JPMDW1AA	9JPMDW10	7053474
		B1LK63	J7B180104-2	JPMDW1AC	9JPMDW10	7053481
	G07-012	B1LJX9	J7B180105-1	JPMDX1AA	9JPMDX10	7053474
		B1LJX9	J7B180105-1	JPMDX1AC	9JPMDX10	7053482
		B1LJX9	J7B180105-1	JPMDX1AD	9JPMDX10	7053484
		B1LJX9	J7B180105-1	JPMDX1AE	9JPMDX10	7053485
		B1LJX9	J7B180105-1	JPMDX1AF	9JPMDX10	7053481
		B1LJY0	J7B180105-2	JPMD01AA	9JPMD010	7053474
		B1LJY0	J7B180105-2	JPMD01AC	9JPMD010	7053482
		B1LJY0	J7B180105-2	JPMD01AD	9JPMD010	7053484
		B1LJY0	J7B180105-2	JPMD01AE	9JPMD010	7053485
		B1LJY0	J7B180105-2	JPMD01AF	9JPMD010	7053481
		B1LJY7	J7B180105-3	JPMD11AA	9JPMD110	7053482
		B1LJY7	J7B180105-3	JPMD11AC	9JPMD110	7053484
		B1LJY7	J7B180105-3	JPMD11AD	9JPMD110	7053486
		B1LK01	J7B180105-4	JPMD21AA	9JPMD210	7053482
		B1LK01	J7B180105-4	JPMD21AC	9JPMD210	7053484
		B1LK01	J7B180105-4	JPMD21AD	9JPMD210	7053486
		B1LK07	J7B180105-5	JPMD31AA	9JPMD310	7053474
		B1LK07	J7B180105-5	JPMD31AC	9JPMD310	7053482
		B1LK07	J7B180105-5	JPMD31AD	9JPMD310	7053484

Comments:

Report Nbr: 34890

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05122	G07-012	B1LK07	J7B180105-5	JPMD31AE	9JPMD310	7053486
		B1LK07	J7B180105-5	JPMD31AF	9JPMD310	7053481
		B1LK12	J7B180105-6	JPMD41AA	9JPMD410	7053474
		B1LK12	J7B180105-6	JPMD41AC	9JPMD410	7053482
		B1LK12	J7B180105-6	JPMD41AD	9JPMD410	7053484
		B1LK12	J7B180105-6	JPMD41AE	9JPMD410	7053486
		B1LK12	J7B180105-6	JPMD41AF	9JPMD410	7053481
	I07-026	B1M6D0	J7B210304-1	JPTQ71AA	9JPTQ710	7053472
		B1M6D0	J7B210304-1	JPTQ71AC	9JPTQ710	7053478
	S07-012	B1LDB7	J7B210305-1	JPTR61AA	9JPTR610	7053474
		B1LDB7	J7B210305-1	JPTR61AC	9JPTR610	7053482
		B1LDB7	J7B210305-1	JPTR61AD	9JPTR610	7053484
		INTRA-LAB BLANK	J7B220000-485	JPXFT1AA	9JPXFT10	7053485
	W07-002	B1M996	J7B220110-1	JPT921AA	9JPT9210	7053482
		B1M996	J7B220110-1	JPT921AC	9JPT9210	7053484
		B1M996	J7B220110-1	JPT921AD	9JPT9210	7053485
		B1M996	J7B220110-1	JPT921AE	9JPT9210	7053472
		B1M7M4	J7B220111-1	JPVAJ1AA	9JPVAJ10	7053488

Comments:

SEVERN TRENT STL

STL Richland
2800 George Washington Way
Richland, WA 99354

Tel: 509 375 3131 Fax: 509 375 5590
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Certificate of Analysis

Pacific Northwest National Laboratories
Sigma V Building
Richland, WA 99352

April 5, 2007

Attention: Dot Stewart

SAF Number	:	S07-012, G07-012, W07-002, I07-027, I07-014, I07-026
Date SDG Closed	:	February 21, 2007
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05122
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between February 15, 2007 and February 21, 2007, twenty water samples were received at STL Richland (STLR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Pacific Northwest National Laboratories (PGW) specific IDs:

PGW ID#	STLR ID#	MATRIX	DATE OF RECEIPT
B1M916	JPMDK	WATER	2/15/07
B1M941	JPMDL	WATER	2/15/07
B1M942	JPMDM	WATER	2/15/07
B1M937	JPMDM	WATER	2/15/07
B1M6N6	JPMDP	WATER	2/15/07
B1M6M1	JPMDQ	WATER	2/15/07
B1M6M2	JPMDR	WATER	2/15/07
B1M6V2	JPMDT	WATER	2/15/07
B1LK59	JPMDV	WATER	2/15/07
B1LK63	JPMDW	WATER	2/15/07
B1LJX9	JPMDX	WATER	2/15/07
B1LJY0	JPMD0	WATER	2/15/07
B1LJY7	JPMD1	WATER	2/15/07

B1LK01	JPMD2	WATER	2/15/07
B1LK07	JPMD3	WATER	2/15/07
B1LK12	JPMD4	WATER	2/15/07
B1M6D0	JPTQ7	WATER	2/20/07
B1LDB7	JPTR6	WATER	2/20/07
B1M996	JPT92	WATER	2/20/07
B1M7M4	JPVAJ	WATER	2/21/07

II. Sample Receipt

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

III. Analytical Results/Methodology

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

The requested analyses were:

Gas Proportional Counting
Gross Alpha by method RICH-RC-5014
Gross Beta by method RICH-RC-5014
Strontium-90 by method RICH-RC-5006
Gamma Spectroscopy
Gamma Spec (LL) by method RICH-RC-5017
Gamma Spec (LL) by method RICH-RC-5017
Iodine-129 (LL) by method RICH-RC-5025
Liquid Scintillation Counting
Technetium-99 by TEVA method RICH-RC-5065
Tritium by method RICH-RC-5007
Laser Induced Phosphorimetry
Total Uranium by method RICH-RC-5058

IV. Quality Control

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

QC and sample results are reported in the same units.

V. Comments

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:
The LCS, batch blank, samples and sample duplicate (B1LJX9) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:
The LCS, batch blank, samples and sample duplicate (B1LDB7) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006
The LCS, batch blank, samples and sample duplicate (B1LK59) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec (LL) by method RICH-RC-5017:
The LCS, batch blank, samples and sample duplicate (B1K996) results are within contractual requirements.

Gamma Spec (LL) by method RICH-RC-5017:
There was insufficient sample volume for a duplicate. The sample was recounted on a different detector for a replicate. Except as noted, the LCS, batch blank, samples and sample duplicate (B1LJY7) results are within contractual requirements.

Iodine-129 (LL) by method RICH-RC-5025:
The LCS, batch blank, samples and sample duplicate (B1M6N6) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by TEVA method RICH-RC-5065:
The LCS, batch blank, samples, sample duplicate (B1M916), and sample matrix spike (B1M941) results are within contractual requirements.

Tritium by method RICH-RC-5007:
The LCS, batch blank, samples and sample duplicate (B1M937) results are within contractual requirements.

Total Uranium

Total Uranium by method RICH-RC-5058:
The LCS, batch blank, samples, sample duplicate (B1M7M4), and sample matrix spike (B1M7M4) results are within contractual requirements.

Pacific Northwest National Laboratories
April 5, 2007

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

Reviewed and approved:

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.

4/5/2007 10:04:24 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34890 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.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:
9JPMD010	B1LJY0		MW6-SBB-A1	G07-012	W05122					02/15/2007 10:24

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7053474	H-3	10028-17-8	5.82E+01	pCi/L	1.2E+02	1.3E+02	U	2.89E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/16/2007 02:37	I
7053482	ALPHA	12587-46-1	1.12E-01	pCi/L	5.2E-01	5.2E-01	U	1.36E+00	100.0	9310_ALPHABETA	1.982E-01	L	03/27/2007 08:10	I
7053484	BETA	12587-47-2	4.69E+02	pCi/L	9.8E+00	6.1E+01		2.72E+00	100.0	9310_ALPHABETA	2.005E-01	L	03/27/2007 08:03	I
7053485	BE-7	13966-02-4	-1.54E+00	pCi/L	1.6E+01	1.6E+01	U	2.82E+01		GAMMALL_GS	2.0002E+00	L	03/23/2007 19:54	I
7053485	CO-60	10198-40-0	-3.48E-01	pCi/L	1.8E+00	1.8E+00	U	3.30E+00		GAMMALL_GS	2.0002E+00	L	03/23/2007 19:54	I
7053485	CS-134	13967-70-9	1.30E-01	pCi/L	1.6E+00	1.6E+00	U	3.03E+00		GAMMALL_GS	2.0002E+00	L	03/23/2007 19:54	I
7053485	CS-137	10045-97-3	3.38E-01	pCi/L	1.6E+00	1.6E+00	U	3.03E+00		GAMMALL_GS	2.0002E+00	L	03/23/2007 19:54	I
7053485	EU-152	14683-23-9	2.03E+00	pCi/L	3.4E+00	3.4E+00	U	6.50E+00		GAMMALL_GS	2.0002E+00	L	03/23/2007 19:54	I
7053485	EU-154	15585-10-1	6.71E+00	pCi/L	4.7E+00	4.7E+00	U	1.12E+01		GAMMALL_GS	2.0002E+00	L	03/23/2007 19:54	I
7053485	EU-155	14391-16-3	7.94E-01	pCi/L	3.5E+00	3.5E+00	U	6.35E+00		GAMMALL_GS	2.0002E+00	L	03/23/2007 19:54	I
7053485	K-40	13966-00-2	-3.52E+01	pCi/L	3.1E+01	3.1E+01	U	6.39E+01		GAMMALL_GS	2.0002E+00	L	03/23/2007 19:54	I
7053485	RU-106	13967-48-1	2.09E+00	pCi/L	1.3E+01	1.3E+01	U	2.50E+01		GAMMALL_GS	2.0002E+00	L	03/23/2007 19:54	I
7053485	SB-125	14234-35-6	-1.28E+00	pCi/L	3.7E+00	3.7E+00	U	6.48E+00		GAMMALL_GS	2.0002E+00	L	03/23/2007 19:54	I
7053481	SR-90	10098-97-2	2.57E+02	pCi/L	2.9E+00	3.8E+01		4.99E-01	76.8	SRISO_SEP_PRE	1.0067E+00	L	03/25/2007 08:34	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:
9JPMD110	B1LJY7		MW6-SBB-A1	G07-012	W05122					02/15/2007 13:18

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7053482	ALPHA	12587-46-1	0.00E+00	pCi/L	3.5E-01	3.5E-01	U	1.11E+00	100.0	9310_ALPHABETA	2.005E-01	L	03/27/2007 08:10	I
7053484	BETA	12587-47-2	1.61E+03	pCi/L	1.8E+01	2.0E+02		2.65E+00	100.0	9310_ALPHABETA	1.996E-01	L	03/27/2007 08:03	I
7053486	BE-7	13966-02-4	-5.38E+00	pCi/L	1.6E+01	1.6E+01	U	2.87E+01		GAMMA_GS	2.5006E+00	L	03/26/2007 13:10	I
7053486	CO-60	10198-40-0	6.70E-01	pCi/L	1.7E+00	1.7E+00	U	3.66E+00		GAMMA_GS	2.5006E+00	L	03/26/2007 13:10	I
7053486	CS-134	13967-70-9	-6.70E-01	pCi/L	1.6E+00	1.6E+00	U	2.95E+00		GAMMA_GS	2.5006E+00	L	03/26/2007 13:10	I
7053486	CS-137	10045-97-3	-7.96E-01	pCi/L	1.5E+00	1.5E+00	U	2.54E+00		GAMMA_GS	2.5006E+00	L	03/26/2007 13:10	I
7053486	EU-152	14683-23-9	2.51E+00	pCi/L	4.0E+00	4.0E+00	U	7.73E+00		GAMMA_GS	2.5006E+00	L	03/26/2007 13:10	I
7053486	EU-154	15585-10-1	1.83E+00	pCi/L	4.2E+00	4.2E+00	U	9.38E+00		GAMMA_GS	2.5006E+00	L	03/26/2007 13:10	I
7053486	EU-155	14391-16-3	-1.91E-01	pCi/L	3.4E+00	3.4E+00	U	5.96E+00		GAMMA_GS	2.5006E+00	L	03/26/2007 13:10	I
7053486	K-40	13966-00-2	-8.13E+00	pCi/L	2.3E+01	2.3E+01	U	4.65E+01		GAMMA_GS	2.5006E+00	L	03/26/2007 13:10	I
7053486	RU-106	13967-48-1	1.03E+01	pCi/L	1.7E+01	1.7E+01	U	3.27E+01		GAMMA_GS	2.5006E+00	L	03/26/2007 13:10	I
7053486	SB-125	14234-35-6	-6.74E-01	pCi/L	3.9E+00	3.9E+00	U	7.07E+00		GAMMA_GS	2.5006E+00	L	03/26/2007 13:10	I

STL Richland

rptFeadRadSummaryEdd v3.48

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

4/5/2007 10:04:24 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34890 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.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:
9JPMD210	B1LK01		MW6-SBB-A1	G07-012	W05122					02/15/2007 09:25

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7053482	ALPHA	12587-46-1	-1.30E-01	pCi/L	3.1E-01	3.2E-01	U	1.32E+00	100.0	9310_ALPHABETA	1.998E-01	L	03/27/2007 08:10	I
7053484	BETA	12587-47-2	6.89E+02	pCi/L	1.2E+01	8.9E+01		2.61E+00	100.0	9310_ALPHABETA	1.993E-01	L	03/27/2007 08:03	I
7053486	BE-7	13966-02-4	7.26E+00	pCi/L	1.6E+01	1.6E+01	U	3.04E+01		GAMMA_GS	2.4994E+00	L	03/26/2007 13:10	I
7053486	CO-60	10198-40-0	-2.47E-01	pCi/L	1.5E+00	1.5E+00	U	2.77E+00		GAMMA_GS	2.4994E+00	L	03/26/2007 13:10	I
7053486	CS-134	13967-70-9	-4.04E-02	pCi/L	1.3E+00	1.3E+00	U	2.51E+00		GAMMA_GS	2.4994E+00	L	03/26/2007 13:10	I
7053486	CS-137	10045-97-3	3.08E-01	pCi/L	1.2E+00	1.2E+00	U	2.31E+00		GAMMA_GS	2.4994E+00	L	03/26/2007 13:10	I
7053486	EU-152	14683-23-9	7.81E-01	pCi/L	3.8E+00	3.8E+00	U	6.93E+00		GAMMA_GS	2.4994E+00	L	03/26/2007 13:10	I
7053486	EU-154	15585-10-1	2.83E+00	pCi/L	4.2E+00	4.2E+00	U	8.85E+00		GAMMA_GS	2.4994E+00	L	03/26/2007 13:10	I
7053486	EU-155	14391-16-3	5.17E-01	pCi/L	3.3E+00	3.3E+00	U	5.89E+00		GAMMA_GS	2.4994E+00	L	03/26/2007 13:10	I
7053486	K-40	13966-00-2	-1.25E+01	pCi/L	2.1E+01	2.1E+01	U	4.23E+01		GAMMA_GS	2.4994E+00	L	03/26/2007 13:10	I
7053486	RU-106	13967-48-1	-2.71E+00	pCi/L	1.2E+01	1.2E+01	U	2.15E+01		GAMMA_GS	2.4994E+00	L	03/26/2007 13:10	I
7053486	SB-125	14234-35-6	2.33E+00	pCi/L	3.9E+00	3.9E+00	U	7.37E+00		GAMMA_GS	2.4994E+00	L	03/26/2007 13:10	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:
9JPMD310	B1LK07		MW6-SBB-A1	G07-012	W05122					02/15/2007 13:57

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7053474	H-3	10028-17-8	-1.38E+01	pCi/L	1.2E+02	1.3E+02	U	2.89E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/16/2007 03:59	I
7053482	ALPHA	12587-46-1	4.04E-01	pCi/L	5.7E-01	5.8E-01	U	1.13E+00	100.0	9310_ALPHABETA	1.989E-01	L	03/27/2007 09:12	I
7053484	BETA	12587-47-2	1.41E+03	pCi/L	1.7E+01	1.8E+02		2.61E+00	100.0	9310_ALPHABETA	2.02E-01	L	03/27/2007 08:03	I
7053486	BE-7	13966-02-4	-8.74E+00	pCi/L	2.0E+01	2.0E+01	U	3.34E+01		GAMMA_GS	2.5039E+00	L	03/26/2007 13:10	I
7053486	CO-60	10198-40-0	-2.45E-01	pCi/L	2.1E+00	2.1E+00	U	3.82E+00		GAMMA_GS	2.5039E+00	L	03/26/2007 13:10	I
7053486	CS-134	13967-70-9	8.70E-01	pCi/L	2.0E+00	2.0E+00	U	3.84E+00		GAMMA_GS	2.5039E+00	L	03/26/2007 13:10	I
7053486	CS-137	10045-97-3	-2.48E+00	pCi/L	1.9E+00	1.9E+00	U	2.81E+00		GAMMA_GS	2.5039E+00	L	03/26/2007 13:10	I
7053486	EU-152	14683-23-9	-9.07E-01	pCi/L	4.9E+00	4.9E+00	U	8.30E+00		GAMMA_GS	2.5039E+00	L	03/26/2007 13:10	I
7053486	EU-154	15585-10-1	1.56E+00	pCi/L	5.2E+00	5.2E+00	U	1.01E+01		GAMMA_GS	2.5039E+00	L	03/26/2007 13:10	I
7053486	EU-155	14391-16-3	9.55E-01	pCi/L	5.3E+00	5.3E+00	U	9.20E+00		GAMMA_GS	2.5039E+00	L	03/26/2007 13:10	I
7053486	K-40	13966-00-2	-8.77E+01	pCi/L	4.9E+01	4.9E+01	U	1.04E+02		GAMMA_GS	2.5039E+00	L	03/26/2007 13:10	I
7053486	RU-106	13967-48-1	1.03E+01	pCi/L	1.6E+01	1.6E+01	U	3.12E+01		GAMMA_GS	2.5039E+00	L	03/26/2007 13:10	I
7053486	SB-125	14234-35-6	-2.30E+00	pCi/L	4.2E+00	4.2E+00	U	7.02E+00		GAMMA_GS	2.5039E+00	L	03/26/2007 13:10	I

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

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34890 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

7053481	SR-90	10098-97-2	8.10E+02	pCi/L	5.1E+00	1.2E+02		4.64E-01	83.3	SRISO_SEP_PRE	9.69E-01	L	03/25/2007	08:34	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:
9JPMD410	B1LK12		MW6-SBB-A1	G07-012	W05122					02/15/2007 11:27

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7053474	H-3	10028-17-8	1.23E+02	pCi/L	1.2E+02	1.4E+02	U	2.91E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/16/2007	05:21	I
7053482	ALPHA	12587-46-1	2.10E+00	pCi/L	1.3E+00	1.4E+00		1.35E+00	100.0	9310_ALPHABETA	1.941E-01	L	03/27/2007	09:12	I
7053484	BETA	12587-47-2	1.72E+03	pCi/L	1.9E+01	2.2E+02		2.73E+00	100.0	9310_ALPHABETA	2.009E-01	L	03/27/2007	08:03	I
7053486	BE-7	13966-02-4	1.03E+00	pCi/L	1.3E+01	1.3E+01	U	2.45E+01		GAMMA_GS	2.4991E+00	L	03/26/2007	13:40	I
7053486	CO-60	10198-40-0	1.18E+00	pCi/L	1.5E+00	1.5E+00	U	3.19E+00		GAMMA_GS	2.4991E+00	L	03/26/2007	13:40	I
7053486	CS-134	13967-70-9	9.56E-02	pCi/L	1.5E+00	1.5E+00	U	2.76E+00		GAMMA_GS	2.4991E+00	L	03/26/2007	13:40	I
7053486	CS-137	10045-97-3	4.59E-01	pCi/L	1.2E+00	1.2E+00	U	2.37E+00		GAMMA_GS	2.4991E+00	L	03/26/2007	13:40	I
7053486	EU-152	14683-23-9	2.55E+00	pCi/L	3.1E+00	3.1E+00	U	6.02E+00		GAMMA_GS	2.4991E+00	L	03/26/2007	13:40	I
7053486	EU-154	15585-10-1	-3.50E+00	pCi/L	3.5E+00	3.5E+00	U	5.31E+00		GAMMA_GS	2.4991E+00	L	03/26/2007	13:40	I
7053486	EU-155	14391-16-3	1.36E+00	pCi/L	3.0E+00	3.0E+00	U	5.59E+00		GAMMA_GS	2.4991E+00	L	03/26/2007	13:40	I
7053486	K-40	13966-00-2	-1.61E+01	pCi/L	2.6E+01	2.6E+01	U	5.49E+01		GAMMA_GS	2.4991E+00	L	03/26/2007	13:40	I
7053486	RU-106	13967-48-1	5.15E+00	pCi/L	1.2E+01	1.2E+01	U	2.28E+01		GAMMA_GS	2.4991E+00	L	03/26/2007	13:40	I
7053486	SB-125	14234-35-6	-8.04E-01	pCi/L	2.6E+00	2.6E+00	U	4.56E+00		GAMMA_GS	2.4991E+00	L	03/26/2007	13:40	I
7053481	SR-90	10098-97-2	9.42E+02	pCi/L	5.8E+00	1.4E+02		5.48E-01	74.3	SRISO_SEP_PRE	1.0035E+00	L	03/25/2007	08:35	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:
9JPMDK10	B1M916		MW6-SBB-A1	W07-002	W05122					02/15/2007 12:35

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7053474	H-3	10028-17-8	8.57E+04	pCi/L	9.4E+02	3.3E+03		2.90E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/15/2007	08:55	I
7053478	I-129L	15046-84-1	2.71E+00	pCi/L	5.2E-01	5.2E-01		2.97E-01	94.9	I129LL_SEP_LEPS	3.958E+00	L	03/20/2007	10:32	I
7053472	TC-99	14133-76-7	2.23E+03	pCi/L	2.6E+01	1.4E+02		1.01E+01	100.0	TC99_ETVDSK_LS	1.251E-01	L	03/26/2007	20:58	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JPMDL10	B1M941		MW6-SBB-A1	W07-002	W05122					02/15/2007 11:03

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7053474	H-3	10028-17-8	3.76E+03	pCi/L	2.3E+02	2.9E+02		2.92E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/15/2007	10:17	I
7053472	TC-99	14133-76-7	1.36E+02	pCi/L	7.5E+00	1.4E+01		1.01E+01	100.0	TC99_ETVDSK_LS	1.251E-01	L	03/26/2007	23:03	I

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

4/5/2007 10:04:25 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34890 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.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:
9JPMDM10	B1M942		MW6-SBB-A1	W07-002	W05122					02/15/2007 07:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7053474	H-3	10028-17-8	7.92E+01	pCi/L	1.2E+02	1.4E+02	U	2.96E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/15/2007 11:38	I
7053472	TC-99	14133-76-7	-1.57E+00	pCi/L	4.1E+00	5.6E+00	U	1.01E+01	100.0	TC99_ETVDSK_LS	1.257E-01	L	03/27/2007 01:08	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:
9JPMDN10	B1M937		MW6-SBB-A1	W07-002	W05122					02/15/2007 09:04

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7053472	TC-99	14133-76-7	1.76E+03	pCi/L	2.3E+01	1.1E+02		9.91E+00	100.0	TC99_ETVDSK_LS	1.271E-01	L	03/27/2007 02:11	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:
9JPMDP10	B1M6N6		MW6-SBB-A1	I07-27	W05122					02/15/2007 11:03

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7053478	I-129L	15046-84-1	2.52E-02	pCi/L	1.6E-01	1.6E-01	U	2.70E-01	94.9	I129LL_SEP_LEPS	3.906E+00	L	03/20/2007 10:33	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:
9JPMDQ10	B1M6M1		MW6-SBB-A1	I07-27	W05122					02/15/2007 10:15

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7053474	H-3	10028-17-8	6.03E+03	pCi/L	2.8E+02	3.8E+02		2.90E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/15/2007 14:22	I
7053478	I-129L	15046-84-1	6.77E-02	pCi/L	1.4E-01	1.4E-01	U	2.77E-01	96.2	I129LL_SEP_LEPS	3.9258E+00	L	03/20/2007 12:43	I
7053472	TC-99	14133-76-7	1.70E+03	pCi/L	2.3E+01	1.1E+02		9.98E+00	100.0	TC99_ETVDSK_LS	1.262E-01	L	03/27/2007 03:13	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JPMDR10	B1M6M2		MW6-SBB-A1	I07-27	W05122					02/15/2007 10:15

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7053474	H-3	10028-17-8	5.83E+03	pCi/L	2.7E+02	3.7E+02		2.91E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/15/2007 15:44	I
7053478	I-129L	15046-84-1	1.67E-02	pCi/L	1.7E-01	1.7E-01	U	2.79E-01	93.5	I129LL_SEP_LEPS	3.9548E+00	L	03/20/2007 12:43	I
7053472	TC-99	14133-76-7	1.69E+03	pCi/L	2.3E+01	1.1E+02		9.99E+00	100.0	TC99_ETVDSK_LS	1.261E-01	L	03/27/2007 04:16	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:
9JPMDT10	B1M6V2		MW6-SBB-A1	I07-27	W05122					02/15/2007 11:34

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7053474	H-3	10028-17-8	4.24E+03	pCi/L	2.4E+02	3.1E+02		2.89E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/15/2007 17:05	I

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

4/5/2007 10:04:25 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34890 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

7053478	I-129L	15046-84-1	1.17E-01	pCi/L	1.7E-01	1.7E-01	U	3.30E-01	91.4	I129LL_SEP_LEPS	3.9526E+00	L	03/20/2007	12:43	I
7053472	TC-99	14133-76-7	2.73E+03	pCi/L	2.9E+01	1.7E+02		1.01E+01	100.0	TC99_ETVDSK_LS	1.251E-01	L	03/27/2007	05:18	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:
9JPMDV10	B1LK59		MW6-SBB-A1	I07-014	W05122					02/15/2007 13:18

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7053474	H-3	10028-17-8	6.82E+01	pCi/L	1.2E+02	1.3E+02	U	2.88E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/15/2007 18:27	I
7053481	SR-90	10098-97-2	9.42E+02	pCi/L	6.2E+00	1.3E+02		6.20E-01	69.7	SRISO_SEP_PRE	9.959E-01	L	03/25/2007 08:33	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:
9JPMDW10	B1LK63		MW6-SBB-A1	I07-014	W05122					02/15/2007 09:25

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7053474	H-3	10028-17-8	2.10E+02	pCi/L	1.3E+02	1.4E+02	U	2.90E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/15/2007 23:54	I
7053481	SR-90	10098-97-2	4.10E+02	pCi/L	3.7E+00	6.1E+01		4.86E-01	74.0	SRISO_SEP_PRE	9.957E-01	L	03/25/2007 08:34	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:
9JPMDX10	B1LJX9		MW6-SBB-A1	G07-012	W05122					02/15/2007 10:24

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7053474	H-3	10028-17-8	-7.43E+00	pCi/L	1.2E+02	1.3E+02	U	2.89E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/16/2007 01:16	I
7053482	ALPHA	12587-46-1	4.06E-01	pCi/L	5.8E-01	5.9E-01	U	1.14E+00	100.0	9310_ALPHABETA	1.991E-01	L	03/27/2007 08:10	I
7053484	BETA	12587-47-2	4.59E+02	pCi/L	9.7E+00	6.0E+01		2.96E+00	100.0	9310_ALPHABETA	2.005E-01	L	03/27/2007 08:03	I
7053485	BE-7	13966-02-4	7.82E+00	pCi/L	2.5E+01	2.5E+01	U	4.63E+01		GAMMALL_GS	1.9979E+00	L	03/23/2007 19:53	I
7053485	CO-60	10198-40-0	-1.94E+00	pCi/L	2.0E+00	2.0E+00	U	2.96E+00		GAMMALL_GS	1.9979E+00	L	03/23/2007 19:53	I
7053485	CS-134	13967-70-9	1.89E-01	pCi/L	2.4E+00	2.4E+00	U	4.36E+00		GAMMALL_GS	1.9979E+00	L	03/23/2007 19:53	I
7053485	CS-137	10045-97-3	-8.18E-01	pCi/L	2.1E+00	2.1E+00	U	3.60E+00		GAMMALL_GS	1.9979E+00	L	03/23/2007 19:53	I
7053485	EU-152	14683-23-9	1.01E+00	pCi/L	5.5E+00	5.5E+00	U	9.83E+00		GAMMALL_GS	1.9979E+00	L	03/23/2007 19:53	I
7053485	EU-154	15585-10-1	-1.21E+01	pCi/L	7.9E+00	7.9E+00	U	1.08E+01		GAMMALL_GS	1.9979E+00	L	03/23/2007 19:53	I
7053485	EU-155	14391-16-3	-1.92E+00	pCi/L	6.1E+00	6.1E+00	U	1.03E+01		GAMMALL_GS	1.9979E+00	L	03/23/2007 19:53	I
7053485	K-40	13966-00-2	-5.82E+01	pCi/L	6.6E+01	6.6E+01	U	1.43E+02		GAMMALL_GS	1.9979E+00	L	03/23/2007 19:53	I
7053485	RU-106	13967-48-1	-4.95E+00	pCi/L	1.8E+01	1.8E+01	U	3.22E+01		GAMMALL_GS	1.9979E+00	L	03/23/2007 19:53	I
7053485	SB-125	14234-35-6	-9.36E-01	pCi/L	5.6E+00	5.6E+00	U	9.84E+00		GAMMALL_GS	1.9979E+00	L	03/23/2007 19:53	I
7053481	SR-90	10098-97-2	2.42E+02	pCi/L	2.7E+00	3.6E+01		4.58E-01	82.7	SRISO_SEP_PRE	1.002E+00	L	03/25/2007 08:34	I

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

4/5/2007 10:04:25 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34890 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.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:
9JPT9210	B1M996		MW6-SBB-A1	W07-002	W05122					02/20/2007 12:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7053482	ALPHA	12587-46-1	1.04E+00	pCi/L	9.0E-01	9.3E-01	U	1.38E+00	100.0	9310_ALPHABETA	2.01E-01	L	03/27/2007 09:12	I
7053484	BETA	12587-47-2	8.97E+00	pCi/L	1.8E+00	2.6E+00		2.60E+00	100.0	9310_ALPHABETA	2.00E-01	L	03/27/2007 08:03	I
7053485	BE-7	13966-02-4	-3.48E+00	pCi/L	2.4E+01	2.4E+01	U	4.29E+01		GAMMALL_GS	1.976E+00	L	03/23/2007 19:55	I
7053485	CO-60	10198-40-0	-2.35E-01	pCi/L	2.3E+00	2.3E+00	U	4.50E+00		GAMMALL_GS	1.976E+00	L	03/23/2007 19:55	I
7053485	CS-134	13967-70-9	2.90E+00	pCi/L	2.6E+00	2.6E+00	U	5.58E+00		GAMMALL_GS	1.976E+00	L	03/23/2007 19:55	I
7053485	CS-137	10045-97-3	-1.15E+00	pCi/L	2.3E+00	2.3E+00	U	3.94E+00		GAMMALL_GS	1.976E+00	L	03/23/2007 19:55	I
7053485	EU-152	14683-23-9	-6.34E-01	pCi/L	5.3E+00	5.3E+00	U	9.39E+00		GAMMALL_GS	1.976E+00	L	03/23/2007 19:55	I
7053485	EU-154	15585-10-1	8.71E-01	pCi/L	7.2E+00	7.2E+00	U	1.42E+01		GAMMALL_GS	1.976E+00	L	03/23/2007 19:55	I
7053485	EU-155	14391-16-3	-2.44E-01	pCi/L	3.6E+00	3.6E+00	U	6.48E+00		GAMMALL_GS	1.976E+00	L	03/23/2007 19:55	I
7053485	K-40	13966-00-2	1.58E+01	pCi/L	5.0E+01	5.0E+01	U	5.09E+01		GAMMALL_GS	1.976E+00	L	03/23/2007 19:55	I
7053485	RU-106	13967-48-1	1.66E+01	pCi/L	2.2E+01	2.2E+01	U	4.43E+01		GAMMALL_GS	1.976E+00	L	03/23/2007 19:55	I
7053485	SB-125	14234-35-6	-5.07E-01	pCi/L	5.2E+00	5.2E+00	U	9.46E+00		GAMMALL_GS	1.976E+00	L	03/23/2007 19:55	I
7053472	TC-99	14133-76-7	2.99E+01	pCi/L	5.1E+00	7.5E+00		1.01E+01	100.0	TC99_ETVDSK_LS	1.252E-01	L	03/27/2007 07:23	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JPTQ710	B1M6D0		MW6-SBB-A1	I07-026	W05122					02/20/2007 14:16

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7053478	I-129L	15046-84-1	5.67E-01	pCi/L	2.2E-01	2.2E-01	U	3.91E-01	96.2	I129LL_SEP_LEPS	3.9071E+00	L	03/20/2007 14:30	I
7053472	TC-99	14133-76-7	5.64E+02	pCi/L	1.3E+01	4.0E+01		1.00E+01	100.0	TC99_ETVDSK_LS	1.26E-01	L	03/27/2007 06:21	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:
9JPTR610	B1LDB7		MW6-SBB-A1	S07-012	W05122					02/20/2007 11:25

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7053474	H-3	10028-17-8	2.23E+05	pCi/L	1.5E+03	8.4E+03		2.91E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/16/2007 06:43	I
7053482	ALPHA	12587-46-1	3.51E+00	pCi/L	1.8E+00	2.0E+00		2.14E+00	100.0	9310_ALPHABETA	2.004E-01	L	03/27/2007 09:12	I
7053484	BETA	12587-47-2	1.99E+01	pCi/L	2.4E+00	3.5E+00		2.68E+00	100.0	9310_ALPHABETA	2.013E-01	L	03/27/2007 08:03	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:
9JPVAJ10	B1M7M4		MW6-SBB-A1	W07-002	W05122					02/21/2007 09:02

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

4/5/2007 10:04:25 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34890 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7053488	Uranium	7440-61-1	6.77E+01	ug/L	8.0E+00	8.0E+00		7.65E-02		UTOT_KPA	2.74E-02	ML	03/30/2007 10:25	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JPXFT10	INTRA-LAB BL		MW6-SBB-A1		W05122					02/20/2007 12:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7053485	BE-7	13966-02-4	4.31E+00	pCi/L	2.2E+01	2.2E+01	U	4.25E+01		GAMMALL_GS	1.9996E+00	L	03/23/2007 19:56	I
7053485	CO-60	10198-40-0	2.32E-01	pCi/L	2.2E+00	2.2E+00	U	4.51E+00		GAMMALL_GS	1.9996E+00	L	03/23/2007 19:56	I
7053485	CS-134	13967-70-9	2.96E+00	pCi/L	2.4E+00	2.4E+00	U	5.40E+00		GAMMALL_GS	1.9996E+00	L	03/23/2007 19:56	I
7053485	CS-137	10045-97-3	-1.59E-02	pCi/L	2.0E+00	2.0E+00	U	3.77E+00		GAMMALL_GS	1.9996E+00	L	03/23/2007 19:56	I
7053485	EU-152	14683-23-9	-2.72E+00	pCi/L	5.7E+00	5.7E+00	U	9.51E+00		GAMMALL_GS	1.9996E+00	L	03/23/2007 19:56	I
7053485	EU-154	15585-10-1	-1.49E-01	pCi/L	6.5E+00	6.5E+00	U	1.28E+01		GAMMALL_GS	1.9996E+00	L	03/23/2007 19:56	I
7053485	EU-155	14391-16-3	1.45E+00	pCi/L	4.6E+00	4.6E+00	U	8.54E+00		GAMMALL_GS	1.9996E+00	L	03/23/2007 19:56	I
7053485	K-40	13966-00-2	-4.30E+00	pCi/L	4.4E+01	4.4E+01	U	9.89E+01		GAMMALL_GS	1.9996E+00	L	03/23/2007 19:56	I
7053485	RU-106	13967-48-1	-1.43E+00	pCi/L	2.3E+01	2.3E+01	U	4.22E+01		GAMMALL_GS	1.9996E+00	L	03/23/2007 19:56	I
7053485	SB-125	14234-35-6	-2.40E+00	pCi/L	5.9E+00	5.9E+00	U	1.02E+01		GAMMALL_GS	1.9996E+00	L	03/23/2007 19:56	I

should not have been reported.

Thursday, April 05, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id: JPXC51AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05122 34890
Matrix: WATER WATER
QC Type: BLK

Collection Date: 02/15/2007 12:35
Sample On Date:
Received Date: 02/15/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7053472	TC-99	-4.17E-01	pCi/L	5.5E+00	U	9.85E+00	100.0		TC99_ETVDSK	1.279E-01	03/27/2007				D
BLK	14133-76-7			4.1E+00						L	09:28				

STL Richland
rptFeadRadEdd v3.68

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

Thursday, April 05, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id: JPXDG1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05122 34890
Matrix: WATER WATER
QC Type: BLK

Collection Date: 02/15/2007 07:30
Sample On Date:
Received Date: 02/15/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7053474	H-3	-3.51E+01	pCi/L	1.3E+02	U	2.91E+02	100.0		906.0_H3_LSC	5.00E-03	03/15/2007				
BLK	10028-17-8			1.2E+02						L	06:08				D

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, April 05, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id: JPXDG1DX
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05122 34890
Matrix: WATER WATER
QC Type: BLK

Collection Date: 02/15/2007 07:30
Sample On Date:
Received Date: 02/15/2007

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
7053474	H-3	5.17E+01	pCi/L	1.4E+02	U	2.99E+02	100.0		906.0_H3_LSC	5.00E-03	03/15/2007				D
BLK	10028-17-8			1.2E+02						L	21:11				

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, April 05, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id:	JPXE21AB	**Sdg/Rept Nbr:**	W05122 34890	**Collection Date:**	02/15/2007 13:18
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	02/15/2007

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
7053481	SR-90	5.97E-02	pCi/L	2.7E-01	U	5.81E-01	70.9		SRISO_SEP_P	9.982E-01	03/25/2007				D
BLK	10098-97-2			2.7E-01						L	08:35				

STL Richland

rptFeadRadEdd v3.68

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

Thursday, April 05, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id:	JPXEJ1AB	**Sdg/Rept Nbr:**	W05122 34890	**Collection Date:**	02/15/2007 11:03
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	02/15/2007

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
7053478	I-129L	-1.19E-01	pCi/L	1.7E-01	U	2.21E-01	95.7		I129LL_SEP_L	3.7697E+00	03/20/2007				
BLK	15046-84-1			1.7E-01						L	14:31				D

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, April 05, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id: JPXF21AB **Sdg/Rept Nbr:** W05122 34890 **Collection Date:** 02/15/2007 13:18

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 02/15/2007

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
7053486	BE-7	-2.52E+00	pCi/L	1.6E+01	U	2.89E+01			GAMMA_GS	2.5035E+00	03/26/2007				D
BLK	13966-02-4			1.6E+01						L	14:53				
7053486	CO-60	-4.06E-01	pCi/L	1.5E+00	U	2.76E+00			GAMMA_GS	2.5035E+00	03/26/2007				D
BLK	10198-40-0			1.5E+00						L	14:53				
7053486	CS-134	-1.55E+00	pCi/L	1.5E+00	U	2.39E+00			GAMMA_GS	2.5035E+00	03/26/2007				D
BLK	13967-70-9			1.5E+00						L	14:53				
7053486	CS-137	1.60E-01	pCi/L	1.5E+00	U	2.73E+00			GAMMA_GS	2.5035E+00	03/26/2007				D
BLK	10045-97-3			1.5E+00						L	14:53				
7053486	EU-152	-5.11E-01	pCi/L	3.4E+00	U	6.13E+00			GAMMA_GS	2.5035E+00	03/26/2007				D
BLK	14683-23-9			3.4E+00						L	14:53				
7053486	EU-154	2.00E+00	pCi/L	3.8E+00	U	8.08E+00			GAMMA_GS	2.5035E+00	03/26/2007				D
BLK	15585-10-1			3.8E+00						L	14:53				
7053486	EU-155	3.70E-01	pCi/L	3.0E+00	U	5.39E+00			GAMMA_GS	2.5035E+00	03/26/2007				D
BLK	14391-16-3			3.0E+00						L	14:53				
7053486	K-40	7.12E+00	pCi/L	2.1E+01	U	4.66E+01			GAMMA_GS	2.5035E+00	03/26/2007				D
BLK	13966-00-2			2.1E+01						L	14:53				
7053486	RU-106	-9.28E+00	pCi/L	1.2E+01	U	2.07E+01			GAMMA_GS	2.5035E+00	03/26/2007				D
BLK	13967-48-1			1.2E+01						L	14:53				
7053486	SB-125	3.32E-01	pCi/L	3.5E+00	U	6.41E+00			GAMMA_GS	2.5035E+00	03/26/2007				D
BLK	14234-35-6			3.5E+00						L	14:53				

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, April 05, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id: JPXF81AB **Sdg/Rept Nbr:** W05122 34890 **Collection Date:** 02/21/2007 09:02

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 02/21/2007

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
7053488	Uranium	0.00E+00	ug/L	0.0E+00	U	2.10E-01			UTOT_KPA	2.51E-02	03/30/2007				D
BLK	7440-61-1			0.0E+00						ML	10:14				

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.

Thursday, April 05, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id:	JPXFD1AB	**Sdg/Rept Nbr:**	W05122 34890	**Collection Date:**	02/15/2007 10:24
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	02/15/2007

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
7053482	ALPHA	1.15E-01	pCi/L	3.7E-01	U	9.50E-01	100.0		9310_ALPHAB	2.027E-01	03/27/2007				D
BLK	12587-46-1			3.7E-01						L	09:12				

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, April 05, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id: JPXFM1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05122 34890
Matrix: WATER WATER
QC Type: BLK

Collection Date: 02/20/2007 11:25
Sample On Date:
Received Date: 02/20/2007

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
7053484	BETA	2.78E-01	pCi/L	1.2E+00	U	2.54E+00	100.0		9310_ALPHAB	1.999E-01	03/27/2007				D
BLK	12587-47-2			1.2E+00						L	08:03				

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, April 05, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id: JPXFT1AB **Sdg/Rept Nbr:** W05122 34890 **Collection Date:** 02/20/2007 12:30

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 02/20/2007

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
7053485	BE-7	4.31E+00	pCi/L	2.2E+01	U	4.25E+01			GAMMALL_GS	1.9996E+00	03/23/2007				D
BLK	13966-02-4			2.2E+01						L	19:56				
7053485	CO-60	2.32E-01	pCi/L	2.2E+00	U	4.51E+00			GAMMALL_GS	1.9996E+00	03/23/2007				D
BLK	10198-40-0			2.2E+00						L	19:56				
7053485	CS-134	2.96E+00	pCi/L	2.4E+00	U	5.40E+00			GAMMALL_GS	1.9996E+00	03/23/2007				D
BLK	13967-70-9			2.4E+00						L	19:56				
7053485	CS-137	-1.59E-02	pCi/L	2.0E+00	U	3.77E+00			GAMMALL_GS	1.9996E+00	03/23/2007				D
BLK	10045-97-3			2.0E+00						L	19:56				
7053485	EU-152	-2.72E+00	pCi/L	5.7E+00	U	9.51E+00			GAMMALL_GS	1.9996E+00	03/23/2007				D
BLK	14683-23-9			5.7E+00						L	19:56				
7053485	EU-154	-1.49E-01	pCi/L	6.5E+00	U	1.28E+01			GAMMALL_GS	1.9996E+00	03/23/2007				D
BLK	15585-10-1			6.5E+00						L	19:56				
7053485	EU-155	1.45E+00	pCi/L	4.6E+00	U	8.54E+00			GAMMALL_GS	1.9996E+00	03/23/2007				D
BLK	14391-16-3			4.6E+00						L	19:56				
7053485	K-40	-4.30E+00	pCi/L	4.4E+01	U	9.89E+01			GAMMALL_GS	1.9996E+00	03/23/2007				D
BLK	13966-00-2			4.4E+01						L	19:56				
7053485	RU-106	-1.43E+00	pCi/L	2.3E+01	U	4.22E+01			GAMMALL_GS	1.9996E+00	03/23/2007				D
BLK	13967-48-1			2.3E+01						L	19:56				
7053485	SB-125	-2.40E+00	pCi/L	5.9E+00	U	1.02E+01			GAMMALL_GS	1.9996E+00	03/23/2007				D
BLK	14234-35-6			5.9E+00						L	19:56				

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, April 05, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id:	JPXC51CS	**Sdg/Rept Nbr:**	W05122 34890	**Collection Date:**	02/15/2007 12:35
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	02/15/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7053472	TC-99	5.17E+02	pCi/L	3.7E+01		1.01E+01	100.0	5.47E+02	TC99_ETVDSK	1.251E-01	03/27/2007			70	D
BS	14133-76-7			1.3E+01				94.4		L	10:31			130	

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

Thursday, April 05, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id:	JPXDG1CS	**Sdg/Rept Nbr:**	W05122 34890	**Collection Date:**	02/15/2007 07:30
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	02/15/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7053474	H-3	2.55E+03	pCi/L	2.4E+02		2.91E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	03/15/2007			70	D
BS	10028-17-8			2.0E+02				93.7		L	07:29			130	

STL Richland
rptFeadRadEdd v3.68

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

Thursday, April 05, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id: JPXDG1EM **Sdg/Rept Nbr:** W05122 34890 **Collection Date:** 02/15/2007 07:30

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 02/15/2007

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
7053474	H-3	2.29E+03	pCi/L	2.3E+02		2.95E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	03/15/2007			70	D
BS	10028-17-8			2.0E+02				84.4		L	22:32			130	

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

Thursday, April 05, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id: JPXE21CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05122 34890
Matrix: WATER WATER
QC Type: BS

Collection Date: 02/15/2007 13:18
Sample On Date:
Received Date: 02/15/2007

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
7053481	SR-90	1.44E+01	pCi/L	2.3E+00		6.83E-01	54.8	1.36E+01	SRISO_SEP_P	9.99E-01	03/25/2007			70	D
BS	10098-97-2			8.8E-01				105.8		L	08:35			130	

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

Thursday, April 05, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id: JPXEJ1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05122 34890
Matrix: WATER WATER
QC Type: BS

Collection Date: 02/15/2007 11:03
Sample On Date:
Received Date: 02/15/2007

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
7053478	I-129L	7.00E+00	pCi/L	9.5E-01		4.81E-01	97.3	9.67E+00	I129LL_SEP_L	3.9954E+00	03/20/2007			70	D
BS	15046-84-1			9.5E-01				72.4		L	14:31			130	

STL Richland
rptFeadRadEdd v3.68

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

Thursday, April 05, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id: JPXF21CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05122 34890
Matrix: WATER WATER
QC Type: BS

Collection Date: 02/15/2007 13:18
Sample On Date:
Received Date: 02/15/2007

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
7053486	CO-60	2.94E+01	pCi/L	6.7E+00		2.94E+00		3.01E+01	GAMMA_GS	2.4999E+00	03/26/2007			70	D
BS	10198-40-0			6.7E+00				97.9		L	14:54			130	
7053486	CS-137	1.97E+01	pCi/L	5.0E+00		3.59E+00		1.99E+01	GAMMA_GS	2.4999E+00	03/26/2007			70	D
BS	10045-97-3			5.0E+00				99.2		L	14:54			130	
7053486	EU-152	6.00E+01	pCi/L	1.5E+01		8.10E+00		6.12E+01	GAMMA_GS	2.4999E+00	03/26/2007			70	D
BS	14683-23-9			1.5E+01				98.0		L	14:54			130	

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

Thursday, April 05, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id:	JPXF81CS	**Sdg/Rept Nbr:**	W05122 34890	**Collection Date:**	02/21/2007 09:02
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	02/21/2007

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
7053488	Uranium	3.53E+01	ug/L	4.2E+00		8.35E-02		3.63E+01	UTOT_KPA	2.51E-02	03/30/2007			70	D
BS	7440-61-1			4.2E+00				97.3		ML	10:21			130	

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

Thursday, April 05, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id: JPXF81DS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05122 34890
Matrix: WATER WATER
QC Type: BS

Collection Date: 02/21/2007 09:02
Sample On Date:
Received Date: 02/21/2007

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
7053488	Uranium	3.67E+00	ug/L	3.8E-01		8.32E-02		3.63E+00	UTOT_KPA	2.52E-02	03/30/2007			70	D
BS	7440-61-1			3.8E-01				100.9		ML	10:23			130	

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

Thursday, April 05, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id:	JPXFD1CS	**Sdg/Rept Nbr:**	W05122 34890	**Collection Date:**	02/15/2007 10:24
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	02/15/2007

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
7053482	ALPHA	2.09E+01	pCi/L	5.7E+00		9.15E-01	100.0	2.26E+01	9310_ALPHAB	2.018E-01	03/27/2007			70	D
BS	12587-46-1			2.9E+00				92.2		L	10:24			130	

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

Thursday, April 05, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id: JPXFM1CS **Sdg/Rept Nbr:** W05122 34890 **Collection Date:** 02/20/2007 11:25

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 02/20/2007

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
7053484	BETA	1.75E+01	pCi/L	3.5E+00		2.61E+00	100.0	2.25E+01	9310_ALPHAB	2.015E-01	03/27/2007			70	D
BS	12587-47-2			2.2E+00				77.9		L	08:03			130	

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

Thursday, April 05, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id: JPXFT1CS **Sdg/Rept Nbr:** W05122 34890 **Collection Date:** 02/20/2007 12:30

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 02/20/2007

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
7053485	CO-60	3.05E+01	pCi/L	8.3E+00		4.71E+00		3.78E+01	GAMMALL_GS	1.9976E+00	03/23/2007			70	D
BS	10198-40-0			8.3E+00				80.5		L	19:56			130	
7053485	CS-137	2.76E+01	pCi/L	7.6E+00		5.07E+00		2.50E+01	GAMMALL_GS	1.9976E+00	03/23/2007			70	D
BS	10045-97-3			7.6E+00				110.7		L	19:56			130	
7053485	EU-152	5.88E+01	pCi/L	1.8E+01	U	2.58E+01		7.69E+01	GAMMALL_GS	1.9976E+00	03/23/2007			70	D
BS	14683-23-9			1.8E+01				76.5		L	19:56			130	

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

Thursday, April 05, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id: JPMD11ER
Client Id: B1LJY7
Moisture/Solids%*:

Sdg/Rept Nbr: W05122 34890
Matrix: WATER WATER
QC Type: DUP

Collection Date: 02/15/2007 13:18
Sample On Date:
Received Date: 02/15/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
G07-012	MW6-SBB-A19981								AV	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7053486	BE-7	1.02E+01	pCi/L	2.3E+01	U	4.15E+01			GAMMA_GS	2.5006E+00	03/26/2007	649.8	1.		D
DUP	13966-02-4	-5.38E+00		2.3E+01						L	14:53	20.0	3		
7053486	CO-60	-5.01E-01	pCi/L	1.9E+00	U	3.50E+00			GAMMA_GS	2.5006E+00	03/26/2007	1390.9	0.9		D
DUP	10198-40-0	6.70E-01		1.9E+00						L	14:53	20.0	3		
7053486	CS-134	4.97E-01	pCi/L	2.0E+00	U	3.70E+00			GAMMA_GS	2.5006E+00	03/26/2007	0.0	0.8		D
DUP	13967-70-9	-6.70E-01		2.0E+00						L	14:53	20.0	3		
7053486	CS-137	9.49E-02	pCi/L	1.5E+00	U	2.72E+00			GAMMA_GS	2.5006E+00	03/26/2007	0.0	0.9		D
DUP	10045-97-3	-7.96E-01		1.5E+00						L	14:53	20.0	3		
7053486	EU-152	-3.99E+00	pCi/L	4.9E+00	U	7.96E+00			GAMMA_GS	2.5006E+00	03/26/2007	0.0	1.9		D
DUP	14683-23-9	2.51E+00		4.9E+00						L	14:53	20.0	3		
7053486	EU-154	5.68E-01	pCi/L	5.3E+00	U	1.00E+01			GAMMA_GS	2.5006E+00	03/26/2007	105.3	0.3		D
DUP	15585-10-1	1.83E+00		5.3E+00						L	14:53	20.0	3		
7053486	EU-155	-3.62E+00	pCi/L	5.2E+00	U	8.42E+00			GAMMA_GS	2.5006E+00	03/26/2007	0.0	0.9		D
DUP	14391-16-3	-1.91E-01		5.2E+00						L	14:53	20.0	3		
7053486	K-40	2.88E+01	pCi/L	5.7E+01	U	3.44E+01			GAMMA_GS	2.5006E+00	03/26/2007	357.2	0.9		D
DUP	13966-00-2	-8.13E+00		5.7E+01						L	14:53	20.0	3		
7053486	RU-106	1.03E+01	pCi/L	1.5E+01	U	2.95E+01			GAMMA_GS	2.5006E+00	03/26/2007	.2	0.		D
DUP	13967-48-1	1.03E+01		1.5E+01						L	14:53	20.0	3		
7053486	SB-125	3.00E-01	pCi/L	4.4E+00	U	7.82E+00			GAMMA_GS	2.5006E+00	03/26/2007	0.0	0.3		D
DUP	14234-35-6	-6.74E-01		4.4E+00						L	14:53	20.0	3		

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

Thursday, April 05, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id: JPMDK1ER
Client Id: B1M916
Moisture/Solids%*:

Sdg/Rept Nbr: W05122 34890
Matrix: WATER WATER
QC Type: DUP

Collection Date: 02/15/2007 12:35
Sample On Date:
Received Date: 02/15/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7053472	TC-99	2.21E+03	pCi/L	1.4E+02		9.89E+00	100.0		TC99_ETVDSK	1.274E-01	03/26/2007	.8	0.2		D
DUP	14133-76-7	2.23E+03		2.6E+01						L	22:00	20.0	3		

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

Thursday, April 05, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id: JPMDM1DR
Client Id: B1M942
Moisture/Solids%*:

Sdg/Rept Nbr: W05122 34890
Matrix: WATER WATER
QC Type: DUP

Collection Date: 02/15/2007 07:30
Sample On Date:
Received Date: 02/15/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7053474	H-3	7.91E+00	pCi/L	1.3E+02	U	2.96E+02	100.0		906.0_H3_LSC	5.00E-03	03/15/2007	163.7	0.8		D
DUP	10028-17-8	7.92E+01		1.2E+02						L	13:00	20.0	3		

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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, April 05, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id:	JPMDP1CR	**Sdg/Rept Nbr:**	W05122 34890	**Collection Date:**	02/15/2007 11:03
Client Id:	B1M6N6	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	02/15/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-27	MW6-SBB-A19981								AZ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7053478	I-129L	-9.99E-02	pCi/L	1.0E-01	U	1.65E-01	96.8		I129LL_SEP_L	3.9327E+00	03/20/2007	0.0	1.7		D
DUP	15046-84-1	2.52E-02		1.0E-01						L	10:33	20.0	3		

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

Thursday, April 05, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id: JPMDV1DR
Client Id: B1LK59
Moisture/Solids%*:

Sdg/Rept Nbr: W05122 34890
Matrix: WATER WATER
QC Type: DUP

Collection Date: 02/15/2007 13:18
Sample On Date:
Received Date: 02/15/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-014	MW6-SBB-A19981								BA	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7053481	SR-90	8.90E+02	pCi/L	1.3E+02		5.51E-01	80.2		SRISO_SEP_P	9.993E-01	03/25/2007	5.8	0.6		D
DUP	10098-97-2	9.42E+02		5.6E+00						L	08:33	20.0	3		

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

Thursday, April 05, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id: JPMDX1GR **Sdg/Rept Nbr:** W05122 34890 **Collection Date:** 02/15/2007 10:24

Client Id: B1LJX9 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 02/15/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
G07-012	MW6-SBB-A19981								BB	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7053482	ALPHA	4.15E-01	pCi/L	5.5E-01	U	9.54E-01	100.0		9310_ALPHAB	2.012E-01	03/27/2007	2.1	0.		D
DUP	12587-46-1	4.06E-01		5.4E-01						L	08:10	20.0	3		

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

Thursday, April 05, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id: JPT921FR **Sdg/Rept Nbr:** W05122 34890 **Collection Date:** 02/20/2007 12:30

Client Id: B1M996 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 02/20/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7053485	BE-7	-1.41E+01	pCi/L	2.2E+01	U	3.72E+01			GAMMALL_GS	1.9942E+00	03/23/2007	0.0	0.7		D
DUP	13966-02-4	-3.48E+00		2.2E+01						L	19:55	20.0	3		
7053485	CO-60	2.92E-01	pCi/L	1.8E+00	U	3.87E+00			GAMMALL_GS	1.9942E+00	03/23/2007	1844.0	0.4		D
DUP	10198-40-0	-2.35E-01		1.8E+00						L	19:55	20.0	3		
7053485	CS-134	-2.70E-01	pCi/L	2.2E+00	U	4.04E+00			GAMMALL_GS	1.9942E+00	03/23/2007	241.0	2.1		D
DUP	13967-70-9	2.90E+00		2.2E+00						L	19:55	20.0	3		
7053485	CS-137	1.18E+00	pCi/L	2.1E+00	U	4.13E+00			GAMMALL_GS	1.9942E+00	03/23/2007	14484.	1.6		D
DUP	10045-97-3	-1.15E+00		2.1E+00						L	19:55	20.0	3		
7053485	EU-152	-1.77E+00	pCi/L	4.4E+00	U	7.61E+00			GAMMALL_GS	1.9942E+00	03/23/2007	0.0	0.4		D
DUP	14683-23-9	-6.34E-01		4.4E+00						L	19:55	20.0	3		
7053485	EU-154	-5.21E+00	pCi/L	6.3E+00	U	1.02E+01			GAMMALL_GS	1.9942E+00	03/23/2007	0.0	1.4		D
DUP	15585-10-1	8.71E-01		6.3E+00						L	19:55	20.0	3		
7053485	EU-155	-6.70E-01	pCi/L	3.7E+00	U	6.46E+00			GAMMALL_GS	1.9942E+00	03/23/2007	0.0	0.2		D
DUP	14391-16-3	-2.44E-01		3.7E+00						L	19:55	20.0	3		
7053485	K-40	2.27E+01	pCi/L	3.1E+01	U	7.04E+01			GAMMALL_GS	1.9942E+00	03/23/2007	36.1	0.3		D
DUP	13966-00-2	1.58E+01		3.1E+01						L	19:55	20.0	3		
7053485	RU-106	6.11E+00	pCi/L	1.6E+01	U	3.19E+01			GAMMALL_GS	1.9942E+00	03/23/2007	92.5	0.9		D
DUP	13967-48-1	1.66E+01		1.6E+01						L	19:55	20.0	3		
7053485	SB-125	-1.18E+00	pCi/L	4.8E+00	U	8.66E+00			GAMMALL_GS	1.9942E+00	03/23/2007	0.0	0.2		D
DUP	14234-35-6	-5.07E-01		4.8E+00						L	19:55	20.0	3		

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

Thursday, April 05, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id:	JPTR61ER	**Sdg/Rept Nbr:**	W05122 34890	**Collection Date:**	02/20/2007 11:25
Client Id:	B1LDB7	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	02/20/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-012	MW6-SBB-A19981								BD	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7053484	BETA	1.76E+01	pCi/L	3.2E+00		2.81E+00	100.0		9310_ALPHAB	1.991E-01	03/27/2007	12.1	1.		D
DUP	12587-47-2	1.99E+01		2.3E+00						L	08:03	20.0	3		

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

Thursday, April 05, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id: JPVAJ1DR
Client Id: B1M7M4
Moisture/Solids%*:

Sdg/Rept Nbr: W05122 34890
Matrix: WATER WATER
QC Type: DUP

Collection Date: 02/21/2007 09:02
Sample On Date:
Received Date: 02/21/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-002	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
7053488	Uranium	6.71E+01	ug/L	7.9E+00		8.35E-02			UTOT_KPA	2.51E-02	03/30/2007	.9	0.1		D
DUP	7440-61-1	6.77E+01		7.9E+00						ML	10:28	20.0	3		

STL Richland
rptFeadRadEdd v3.68

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

Thursday, April 05, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id: JPMDL1DW
Client Id: B1M941
Moisture/Solids%*:

Sdg/Rept Nbr: W05122 34890
Matrix: WATER WATER
QC Type: MS

Collection Date: 02/15/2007 11:03
Sample On Date:
Received Date: 02/15/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7053472	TC-99	3.40E+03	pCi/L	2.2E+02		1.01E+01	100.0	3.59E+03	TC99_ETVDSK	1.252E-01	03/27/2007			60	D
MS	14133-76-7			3.2E+01				94.8		L	00:06			140	

STL Richland
rptFeadRadEdd v3.68

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

Thursday, April 05, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05122.Edd, h:\Reportdb\edd\FeadIV\Rad\34890.Edd

Lab Sample Id:	JPVAJ1CW	**Sdg/Rept Nbr:**	W05122 34890	**Collection Date:**	02/21/2007 09:02
Client Id:	B1M7M4	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	MS	**Received Date:**	02/21/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7053488	Uranium	3.29E+01	ug/L	1.4E+01		7.82E-02		3.37E+01	UTOT_KPA	2.68E-02	03/30/2007			60	D
MS	7440-61-1			1.4E+01				97.6		ML	10:26			140	

STL Richland

rptFeadRadEdd v3.68

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/28/2007 7:53:09 AM

Lot No., Due Date: J7B180105,J7B220110,J7B210305; 04/02/2007,04/06/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7053482; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05122; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used OK	✓		
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => JPMD41AC ALPHA 2.1E+00 L:1.3E+00 JPTR61AC ALPHA 3.5E+00 L:2.1E+00		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => ALPHA OK; No Callin Level Found => ALPHA	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

8.26 Instruments have Current Calibrations. Yes No N/A

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

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

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

8.3 Comments:

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

First Level Review Pam Anderson **Date** 5.28.07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 705348Z
W05LL2

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: 3-27-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/28/2007 8:05:40 AM

Lot No., Due Date: J7B180105,J7B220110,J7B210305; 04/02/2007,04/06/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7053484; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05122; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used OK	✓		
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => JPMDX1AD BETA 4.6E+02 L:3.0E+00 JPMD01AD BETA 4.7E+02 L:2.7E+00 JPMD11AC BETA 1.6E+03 L:2.6E+00 JPMD21AC BETA 6.9E+02 L:2.6E+00 JPMD31AD BETA 1.4E+03 L:2.6E+00 JPMD41AD BETA 1.7E+03 L:2.7E+00 JPTR61AD BETA 2.0E+01 L:2.7E+00 JPT921AC BETA 9.0E+00 L:2.6E+00		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => BETA	✓		

OK; No Callin Level Found => BETA

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

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

8.26 Instruments have Current Calibrations. Yes No N/A

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

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

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

8.3 Comments:

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

First Level Review Pam Anderson Date 3-28-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7053484
W05122

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

Comments on any "No" response: _____

Second Level Review: Sheryl R. Adam Date: 5-28-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/26/2007 3:26:40 PM

Lot No., Due Date: J7B180105,J7B180104; 04/02/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7053481; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05122; 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:
See NCM. 10-09635

First Level Review Pam Anderson **Date** 3-26-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7055481
W05K2

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 R Allen Date: 3-27-07

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: 10-09635
NCM Initiated By: Pam Anderson
Date Opened: 03/26/2007
Date Closed:

Classification: **Deficiency**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Sr-85/90 by GPC-7
Lot #'s (Sample #'s): J7B180105 (5),
QC Batches: 7053481

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

Problem Description / Root Cause

Name	Date	Description
Pam Anderson	03/26/2007	The tech noted Sr 90 sample in water was poured up and the weight not written down. They did remember the weight was between 968 - 970 mL. They wrote 969 mL as the sample size.

Corrective Action

Name	Date	Corrective Action
Pam Anderson	03/26/2007	None at this time.

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

SEVERN TRENT **STL**

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/28/2007 4:00:56 PM

Lot No., Du : Date: J7B180105,J7B220110; 04/02/2007,04/06/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch N ., Method Test: 7053485; RGAMMA Gamma by GER

SDG, Matri: : W05122; WATER

1.0 COC

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

2.0 QC Bat h

2.1 Do the S mmary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet? Yes No N/A

2.2 Are the C C appropriate for the analysis included in the batch? Yes No N/A

2.3 Is the An lytical 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 & S mples

3.1 Is the bla k results, yield, and MDA within contract limits? Yes No N/A

3.2 Is the LC S result, yield, and MDA within contract limits? Yes No N/A

3.3 Are the M S/MSD results, yields, and MDA within contract limits? Yes No N/A

3.4 Are the d plicate result, yields, and MDAs within contract limits? Yes No N/A

3.5 Are the s mple yields and MDAs within contract limits? Yes No N/A

4.0 Raw Da a

4.1 Were res lts calculated in the correct units? Yes No N/A

4.2 Were an ysis volumes entered correctly? Yes No N/A

4.3 Were Yie ds entered correctly? Yes No N/A

4.4 Were sp ctra reviewed/meet contractual requirements? Yes No N/A

4.5 Were rav counts reviewed for anomalies? Yes No N/A

5.0 Other

5.1 Are all nc nconformances included and noted? Yes No N/A

5.2 Are all re uired forms filled out? Yes No N/A

5.3 Was the orrect methodology used? Yes No N/A

5.4 Was tran cription checked? Yes No N/A

5.5 Were all alculations checked at a minimum frequency? Yes No N/A

5.6 Are work heet entries complete and correct? Yes No N/A

6.0 Commen s on any No response:

First Level i eview Vicki Anderson **Date** 3/28/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7053485
W05122

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

Comments on any "No" response: _____

Second Level Review: Sheryl R Adam Date: 3-29-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/27/2007 11:59:53 AM

Lot No., Due Date: J7B180105; 04/02/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7053486; RGAMMA Gamma by GER

SDG, Matrix: W05122; 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 09643

First Level Review Pam Anderson **Date** 3-27-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7053486
W05122

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. Allen Date: 3-28-07

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: 10-09643
NCM Initiated By: Pam Anderson
Date Opened: 03/27/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Gamma by GER
Lot #'s (Sample #'s): J7B180105 (3),
QC Batches: 7053486

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

Problem Description / Root Cause

Name	Date	Description
Pam Anderson	03/27/2007	There was insufficient sample for a duplicate in this gamma in water batch. The sample was recounted on a different detector for a replicate.

Corrective Action

Name	Date	Corrective Action
Pam Anderson	03/27/2007	None at this time.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 3/27/2007

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/21/2007 3:43:03 PM

Lot No., Due Date: J7B180102,J7B180103,J7B210304; 04/02/2007,04/06/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7053478; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05122; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples Method Differs => JPMDK1AC LEP<>TB JPMDP1AA LEP<>TB JPMDP1AC LEP<>TB JPMDQ1AC LEP<>TB JPMDR1AC LEP<>TB JPMDT1AC LEP<>TB JPTQ71AC LEP<>TB JPXEJ1AA LEP<>TB JPXEJ1AC LEP<>TB Q:V6		✓	
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 => JPMDK1AC 3.958<4000.00 JPMDP1AA 3.906<4000.00 JPMDQ1AC 3.926<4000.00 JPMDR1AC 3.955<4000.00 JPMDT1AC 3.953<4000.00 JPTQ71AC 3.907<4000.00 Q:VB		✓	
8.07 The Correct Count Geometry was Used. Count Geometry => JPMDK1AC I_FA<>IFA JPMDP1AA I_FA<>IFA JPMDP1AC I_FA<>IFA JPMDQ1AC I_FA<>IFA JPMDR1AC I_FA<>IFA JPMDT1AC I_FA<>IFA JPTQ71AC I_FA<>IFA JPXEJ1AA I_FA<>IFA JPXEJ1AC I_FA<>IFA Q:VC		✓	
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		

8.19 Sample Specific MDC <= CRDL. Yes No N/A

OK

8.2 Comments:

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

Batch Positive Result =>
JPMDK1AC I-129L 2.7E+00 L:3.0E-01
JPTQ71AC I-129L 5.7E-01 L:3.9E-01

8.23 Result <= Action Level, when Defined. Yes No N/A

OK; No Action Level Found => I-129L

OK; No Callin Level Found => I-129L

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

FWHM > maxFWHM => JPMDK1AC I-129L 18>0
JPXEJ1AC I-129L 20.00>0 Q:V1

8.26 Instruments have Current Calibrations. Yes No N/A

8.27 Correct Count Library Used. Yes No N/A

Library Not Specified => JPMDK1AC I:[NUC_LIBR]LEPS.NLB Q:
JPMDP1AA I:[NUC_LIBR]LEPS.NLB Q:
JPMDP1AC I:[NUC_LIBR]LEPS.NLB Q:
JPMDQ1AC I:[NUC_LIBR]LEPS.NLB Q:
JPMDR1AC I:[NUC_LIBR]LEPS.NLB Q:
JPMDT1AC I:[NUC_LIBR]LEPS.NLB Q:
JPTQ71AC I:[NUC_LIBR]LEPS.NLB Q:
JPXEJ1AA I:[NUC_LIBR]LEPS.NLB Q:
JPXEJ1AC I:[NUC_LIBR]LEPS.NLB Q:

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

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

8.3 Comments:

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

OK

First Level Review Pam Anderson Date 5-22-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7053478
W05122

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

Comments on any "No" response:

Second Level Review: Sheryl R Adam Date: 3-22-07

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/28/2007 8:05:06 AM

Lot No., Due Date: J7B180102,J7B180103,J7B220110,J7B210304; 04/02/2007,04/06/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7053472; RTC99 Tc-99 by LSC

SDG, Matrix: W05122; 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 => JPMDL1AD TCSG<>TCSE Q:V9		✓	
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used OK	✓		
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. OK	✓		
8.17 Tracer within Control Limits. No Tracers found in Batch!			✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!			✓
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc_IDL Not Calculated	✓		
8.23 Result <= Action Level, when Defined. OK: No Action Level Found => TC-99 OK; No Callin Level Found => TC-99	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

8.26 Instruments have Current Calibrations. Yes No N/A

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

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

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

8.3 Comments:

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

First Level Review Pam Anderson Date 3-28-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7053472
W05122

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

Comments on any "No" response: _____

Second Level Review: Cheryl R Adam Date: 5-28-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/19/2007 3:54:17 PM

Lot No., Due Date: J7B180105,J7B180102,J7B180103,J7B180104,J7B210305; 04/02/2007,04/06/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7053474; RTRITIUM H-3 by LSC

SDG, Matrix: W05122; 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 => JPMDK1AA 5.00<10.00 JPMDL1AA 5.00<10.00 JPMDM1AA 5.00<10.00 JPMDQ1AA 5.00<10.00 JPMDR1AA 5.00<10.00 JPMDT1AA 5.00<10.00 JPMDV1AA 5.00<10.00 JPMDW1AA 5.00<10.00 JPMDX1AA 5.00<10.00 JPMD01AA 5.00<10.00 JPMD31AA 5.00<10.00 JPMD41AA 5.00<10.00 JPTR61AA 5.00<10.00 Q:VB ok PA 3-19-07		✓	
8.07 The Correct Count Geometry was Used. Count Geometry => JPXDG1AF SVP15/5<>SVP10/10 JPXDG1AG SVP15/5<>SVP10/10 JPXDG1AA SVP15/5<>SVP10/10 JPXDG1AC SVP15/5<>SVP10/10 JPMDK1AA SVP15/5<>SVP10/10 JPMDL1AA SVP15/5<>SVP10/10 JPMDM1AA SVP15/5<>SVP10/10 JPMDM1AD SVP15/5<>SVP10/10 JPMDQ1AA SVP15/5<>SVP10/10 JPMDR1AA SVP15/5<>SVP10/10 JPMDT1AA SVP15/5<>SVP10/10 JPMDV1AA SVP15/5<>SVP10/10 JPXDG1AH SVP15/5<>SVP10/10 JPXDG1AD SVP15/5<>SVP10/10 JPXDG1AE SVP15/5<>SVP10/10 JPMDW1AA SVP15/5<>SVP10/10 JPMDX1AA SVP15/5<>SVP10/10 JPMD01AA SVP15/5<>SVP10/10 JPMD31AA SVP15/5<>SVP10/10 JPMD41AA SVP15/5<>SVP10/10 JPTR61AA SVP15/5<>SVP10/10 Q:VC ok PA 3-19-07		✓	
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	Yes ✓	No	N/A
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!	Yes	No	N/A ✓
8.17 Tracer within Control Limits. No Tracers found in Batch!	Yes	No	N/A ✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!	Yes	No	N/A ✓
8.19 Sample Specific MDC <= CRDL. OK	Yes ✓	No	N/A
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!	Yes	No	N/A ✓
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc_IDL Not Calculated	Yes ✓	No	N/A
8.23 Result <= Action Level, when Defined. OK: No Action Level Found => H-3 OK; No Callin Level Found => H-3	Yes ✓	No	N/A
8.24 Result + 3s >=0, Not Too Negative. OK	Yes ✓	No	N/A
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!	Yes	No	N/A ✓
8.26 Instruments have Current Calibrations.	Yes	No	N/A
8.27 Correct Count Library Used. No Count Library found in Batch Data!	Yes	No	N/A ✓
8.28 nstrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8.29 nstrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8.3 Comments:			
8.31 Results Blank Subtracted as Appropriate. OK	Yes ✓	No	N/A

First Level Review Pam Anderson **Date** 3-19-07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7053474
W05122

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

Comments on any "No" response:

Second Level Review: Sheryl R Adam Date: 3-20-07

PNNL J7B180102
WO 5122
Due 04 02 07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-002-366

Page 1 of 1

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

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1M916		W	2-15-07	1235	1x20-mL P	Activity Scan	None
B1M916		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1M916		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1M916		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						JPMDK	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F. M. HALL			FEB 15 2007 1435		Eric Darby		FEB 15 2007 1435
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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PNNL JTB180102
W05122
due 04-2-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-002-438**

Page 1 of 1

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

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1M941		W	2-15-07	1103	1x20-mL P	Activity Scan	None
B1M941		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1M941		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						JPMDL	

Relinquished By	Received By
Fluor Hanford J. M. HALL Print Sign Date/Time 1435 FEB 15 2007	Eric Darby Print Sign Date/Time 1435 FEB 15 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

73

PNNL J7B180102
WO 5122
Due 04-02-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-002-439**

Page 1 of 1

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

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1M942		W	2-15-07	0730	1x20-mL P	Activity Scan	None
B1M942		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1M942		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						JPMDM	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford E.M. HALL			FEB 15 2007 1435		Eric Dorley	Eric Dorley	FEB 15 2007 1435
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

PNNL J7B180102
W05122
Due 04-02-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-002-446**

Page 1 of 1

Collector Fluor Hanford F.M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, FEBRUARY 2007	HNF-N-506-1	**Ice Chest No.** ROS'S **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
B1M937		W	2-15-07	0904	1x20-mL P	Activity Scan	None
B1M937		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

JPMDM

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F.M. HALL			FEB 15 2007		Eric Dowdy		FEB 15 2007 1435
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

STL

Sample Check-in List

Date/Time Received 2/15/07 1435

Client PNL SDG # W05122 NA [ ] SAF # W07-002 NA [ ]

Work Order Number J7B180102 Chain of Custody # W07-002-366, 435, 437, 446

Shipping Container ID _____ Air Bill # _____

1 Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]

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

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

4 Cooler temperature _____ NA [✓] 5 Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]

6 Number of samples in shipping container 13

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

8. Samples have:
_____tape
_____custody seals
_____hazard labels
_____appropriate samples labels

9 Samples are
_____in good condition
_____broken
_____leaking
_____have air bubbles
(Only for samples requiring head space)

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

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

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

13 Description of anomalies (include sample numbers): _____

Sample Custodian: Eu Darby Date: 2/15/07 1435

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client informed on _____ by _____ Person contacted _____

[ ] No action necessary, process as is.

Project Manager _____ Date _____

LS-023 9/03, Rev 5

STL RICHLAND

PNNL J7B180103
WO 5122
Due 04-02-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I07-027-62

Page 1 of 1

Collector: Fluor Hanford F. M. HALL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: I07-027	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2ZP1-LOL FEBRUARY 2007	HNF-N-506-1	Ice Chest No.: 205 5 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
B1M6N6		W	2-15-07	1103	1x20-mL P	Activity Scan	None
B1M6N6		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						JPMDP	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F. M. HALL			FEB 15 2007		Eric Darby	Eric Darby	FEB 15 2007 1435
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum 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

7

PNNL J7B180103
W05122
Due 02/.02 .07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I07-027-72

Page 1 of 1

Collector Fluor Hanford F. M. HALL	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. I07-027	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 2ZP1-LOI, FEBRUARY 2007	HNF-N-506-1	Ice Chest No. ROSS Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol CERCLA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1M6M1		W	2/15/07	1015	1x20-mL P	Activity Scan	None
B1M6M1		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1M6M1		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1M6M1		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JPMDQ	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F. M. HALL			FEB 15 2007 1435		Eric Darby	Eric Darby	FEB 15 2007 1435
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

7/8

PNNL J7B180103
W05122
Due 02/02/07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I07-027-73

Collector Fluor Hanford F. M. HALL	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. I07-027	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 2ZP1-LOI, FEBRUARY 2007	HNF-N-506-1	Ice Chest No. ROSS Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol CERCLA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1M6M2		W	2-15-07	1015	1x20-mL P	Activity Scan	None
B1M6M2		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1M6M2		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1M6M2		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JPMDR	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F.M. HALL			FEB 15 2007 1435		Eric Darby		FEB 15 2007 1435
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum 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

SITE RICHLAND

PNNL J7B180103
W05122
due 04-02-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I07-027-132**

Page 1 of 1

Collector Fluor Hanford F.M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I07-027	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2ZP1-LOI FEBRUARY 2007	HNF-N-506-1	**Ice Chest No.** R055 **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
B1M6V2		W	2-15-07	1134	1x20-mL P	Activity Scan	None
B1M6V2		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1M6V2		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1M6V2		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JPMDT	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F.M. HALL			FEB 15 2007 1435		Eric Darby	Eric Darby	FEB 15 2007 1435
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum 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

08

SEVERN TRENT STL

Sample Check-in List

Date/Time Received 2/15/07 1435

Client PNL SDG # I07-027 NA [ ] SAF # I07-027 NA [ ]

Work Order Number J7B180103 Chain of Custody # I07-027; 62, 72, 73, 132

Shipping Container ID: _____ Air Bill # _____

1 Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]

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

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

4 Cooler temperature _____ NA [✓] 5 Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]

6 Number of samples in shipping container 4

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

8 Samples have:
_____ tape
_____ custody seals
_____ hazard labels
✓ appropriate samples labels

9 Samples are
✓ in good condition
_____ broken
_____ leaking
_____ have air bubbles
(Only for samples requiring headspace)

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

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

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

13 Description of anomalies (include sample numbers) _____

Sample Custodian: Em Darby Date 2/15/07 1435

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary, process as is

Project Manager _____ Date _____

LS-003, 9/03, Rev. 5

STL RICHLAND

PNNL J7B180104
WO 5122
Due 04-02-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I07-014-2**

Page 1 of 1

Collector Fluor Hanford R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I07-014	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100NR2IAM-LOI	Logbook: HNF-N-506-4	**Ice Chest No.** ERC-02-403 **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
B1LK59		W	2/15/07	1318	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LK59		W	↓	↓	1x20-mL P	Activity Scan	None
B1LK59		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

JPMDV

JLWall 2/15/07

Relinquished By	Received By
Print: Fluor Hanford R. T. SICKLE Sign: Date/Time: FEB 15 2007 1515	Print: Eric Dooley Sign: Eric Dooley Date/Time: FEB 15 2007 1515
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

82

PNNL J7B180104
W05122
Due 02/02/07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I07-014-5

Page 1 of 1

Collector Fluor Hanford R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I07-014	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code** ERC-02-403
Project Title 100NR21AM-LO1	Logbook: HNF-N-506-4	**Ice Chest No.** ~~FS3~~ **Temp.** 2.0 2/15/07
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
B1LK63		W	2/15/07	0925	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LK63		W	↓	↓	1x20-mL P	Activity Scan	None
B1LK63		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

JAm DW

R Wall 2/15/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			FEB 15 2007 1515	Eric Darby	Eric Darby		FEB 15 2007 1515
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

83

STL

Sample Check-in List

Date/Time Received 2/15/07 1515

Client: PNL SDG # W05122 NA [ ] SAF # I07-014-8FD

Work Order Number: J7B180104 Chain of Custody # J07-014-2,5

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 [✓] Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]

6 Number of samples in shipping container 2

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

8 Samples have:
_____ tape
_____ custody seals
_____ hazard labels
✓ appropriate samples labels

9 Samples are
✓ in good condition
_____ broken
_____ leaking
_____ have air bubbles
(Only for samples requiring headspace)

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

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

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

13 Description of anomalies (include sample numbers): _____

Sample Custodian: Er Daily Date 2/15/07 1515

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client informed on _____ by _____ Person contacted _____

[ ] No action necessary, process as is.

Project Manager _____ Date _____

CS 033 9/03 Rev 5

STL RICHLAND

PNNL J7B180105
WO 5122
Due 04.02.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # G07-012-14

Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: G07-012	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 1NR2-RB, DECEMBER 2006	Logbook: HNF-N-506-4	Ice Chest No.: ERC-02-403 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
B1LJX9		W	2/15/07	1024	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LJX9		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1LJX9		W			1x20-mL P	Activity Scan	None
B1LJX9		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LJX9		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

JPMDX

R. Wall 2/15/07

Relinquished By	Received By
Fluor Hanford R. T. SICKLE (Print) (Sign) Date/Time 1515 FEB 15 2007	Eric Darby (Print) (Sign) Date/Time 1515 FEB 15 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 Liquid	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

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

SIL R. CHILAND

85

PNNL J7B180105
WO5122
Due 04-02-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # G07-012-15

Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: G07-012	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: INR2-RB, DECEMBER 2006	Logbook: HNF-N-506-4	Ice Chest No.: CRC-02-403 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
B1LJY0		W	2/15/07	1024	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LJY0		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1LJY0		W			1x20-mL P	Activity Scan	None
B1LJY0		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1LJY0		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

JPmDO

L. Wall 2/15/07

Relinquished By	Received By
Fluor Hanford R. T. SICKLE Print Sign Date/Time 1515 FEB 15 2007	Print Sign Date/Time 1515 FEB 15 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

SPL RICHLAND

98

PNNL J7B180105
WO 5122
Due 07.02.07
Fluor Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # G07-012-22

Page 1 of 1

Collector: R. T. SICKLE	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: G07-012	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 1NR2-RB, DECEMBER 2006	Logbook: HNF-N-506-4	Ice Chest No.: ERC-02-403 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
B1LJY7		W	2/15/07	1318	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1LJY7		W	↓	↓	1x20-mL P	Activity Scan	None
B1LJY7		W	↓	↓	3x1000-mL G/P	GAMMA_GS: List-1 (10)	HNO3 to pH <2

JPMDI

R. Wall 2/15/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			1575 FEB 15 2007	E. Dorley	Eric Dorley		1575 FEB 15 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 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

87

PNNL J7B180105
W05722
due 04-02-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # G07-012-30

Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: G07-012	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: INR2-RB, DECEMBER 2006	Logbook: HNF-N-506-4	Ice Chest No.: ERC-02-403 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
B1LK01		W	2/15/07	0925	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1LK01		W	↓	↓	1x20-mL P	Activity Scan	None
B1LK01		W	↓	↓	3x1000-mL G/P	GAMMA_GS: List-1 (10)	HNO3 to pH <2

JPM D2

L Wall 2/15/07

Relinquished By	Received By
Print: Fluor Hanford R. T. SICKLE Sign: Date/Time: FEB 15 2007 1515	Print: Eric Dooley Sign: Eric Dooley Date/Time: FEB 15 2007 1515
Relinquished By: Date/Time	Received By: Date/Time
Relinquished By: Date/Time	Received By: Date/Time
Relinquished By: Date/Time	Received By: Date/Time

Matrix *

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

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

STL RICHLAND

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STL RICHLAND

PNNL J7B180105
WO 5122
Due 04-02-07
Fluor Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # G07-012-38

Page 1 of 1

Collector: R. T. SICKLE	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: G07-012	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 1NR2-RB, DECEMBER 2006	Logbook: HNF-N-506-4	Ice Chest No. ERC-02-403 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
B1LK07		W	2/15/07	1357	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LK07		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1LK07		W			1x20-mL P	Activity Scan	None
B1LK07		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1LK07		W			3x1000-mL G/P	GAMMA_GS: List-1 (10)	HNO3 to pH <2

JPM,D3

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			FEB 15 2007 1615		Eric Dorsey		FEB 15 2007 1615
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

PNNL J7B180105
WO5122
Due 04-02-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # G07-012-46

Collector Fluor Hanford R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. G07-012	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 1NR2-RB, DECEMBER 2006	Logbook: HNF-N-506-4	**Ice Chest No.** ERC-02-403 **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
B1LK12		W	2/15/07	1127	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1LK12		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1LK12		W			1x20-mL P	Activity Scan	None
B1LK12		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1LK12		W			3x1000-mL G/P	GAMMA_GS: List-1 (10)	HNO3 to pH <2
						JPMDH	

R. Wall 2/15/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			FEB 15 2007 1545	Eric Darby	Eric Darby		FEB 15 2007 1545
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

SEVERN TRENT STL

Sample Check-in List

Date/Time Received 2/15/07 1515

Client PNL SDG # W05122 NA [ ] SAF # 607-012 NA [ ]

Work Order Number: J7B180105 Chain of Custody # 607-012, 14, 15, 22, 30, 38 46

Shipping Container ID: _____ Air Bill # _____

1 Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]

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

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

4 Cooler temperature _____ NA [✓] 5 Vermiculite/packing materials is NA [✓] Yes [ ] No [ ]

6 Number of samples in shipping container 6

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

8 Samples have:
_____ tape
_____ custody seals
_____ hazard labels
✓ appropriate samples labels

9 Samples are
✓ in good condition
_____ broken
_____ leaking
_____ have air bubbles
(Only for samples requiring headspace)

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: Em Darby Date: 2/15/07 1515

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client informed on _____ by _____ Person contacted _____

[ ] No action necessary. process as is.

Project Manager _____ Date _____

LS 023, 9/03, Rev 5

PNNL J7B210304
WO 5122
Due 04-06-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I07-026-76

Page 1 of 1

Collector: Fluor Hanford F. M. HALL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: I07-026	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2UP1-LOL FEBRUARY 2007	HHF-M-506-2	Ice Chest No.: ROSS Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: 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
B1M6D0		W	2/2017	1416	1x20-mL P	Activity Scan	None
B1M6D0		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1M6D0		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						JPTQ7	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F. M. HALL			FEB 20 2007 1500		Eric Darby	Eric Darby	FEB 20 2007 1500
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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SEVERN TRENT STL

Sample Checklist

Date/Time Received 2/20/07 1500

Client PNL SDG # W05122 NA [ ] SAF # I07-026 NA [ ]

Work Order Number: J7B210304 Chain of Custody # I07-026-76

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 [✓] Vermiculite/packing materials is NA [✓] Yes [ ] No [ ]

6 Number of samples in shipping container 1

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

8 Samples have:
_____ tape
_____ custody seals
_____ sealed labels
✓ pH-Cyanide samples labels

9 Samples are:
✓ in good condition
_____ broken
_____ leaking
_____ have air bubbles
(Only for samples requiring headspace)

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

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

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

13 Description of anomalies (include sample numbers): _____

Sample Custodian: Ken Darby Date 2/20/07 1500

Client Sample ID	Analysis Requested	Condition	Comments

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary, process as is.

Project Manager _____ Date _____

LS 022, 9/03, Rev 5

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PNNL: J7B210305
WO 5122
due 04-06-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-012-484

Page 1 of 1

Collector: Fluor Hanford F. M. HALL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S07-012	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV. DECEMBER 2006	HNF-M-506-2	Ice Chest No.: ROSS Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: 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
B1LDB7		W	2/20/7	1125	1x20-mL P	Activity Scan	None
B1LDB7		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1LDB7		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						JPTR6	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Fluor Hanford F. M. HALL		FEB 20 2007 1500		Eric Dooley	Eric Dooley	FEB 20 2007 1500
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL

Sample Check-in List

Date/Time Received 2/20/07 1500

Client: PNL SDG # W05122 NA [ ] SAF # S07-012 NA [ ]

Work Order Number JTB310305 Chain of Custody # S07-012-484

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 [✓] Vermiculite/packing materials is NA [✓] Yes [ ] No [ ]

6 Number of samples in shipping container 1

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

8. Samples have:
_____ tape
_____ custody seals
_____ hazard labels
[✓] appropriate samples labels

9 Samples are
[✓] in good condition
_____ broken
_____ leaking
_____ have air bubbles
(Only for samples requiring headspace)

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

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

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

13 Description of anomalies (include sample numbers): _____

Sample Custodian: E. Darby Date 2/20/07 1500

Client Sample ID	Analysis Requested	Special Instructions	Comments

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary, process as is.

Project Manager _____ Date _____

LS 022, 9/03, Rev 5

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STL RICHLAND

PNNL J7B220110
W05722
Due 04-06-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-002-490**

Page 1 of 1

Collector Fluor Hanford D. B. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, FEBRUARY 2007	HNF-N-506 1	**Ice Chest No.** SAWS-118 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1M996		W	2-20-07	1230	1x20-mL P	Activity Scan	None
B1M996		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1M996		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1M996		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						JPT92	
						DLP	
						2-20-07	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. B. BREWINGTON			FEB 20 2007 1500		Eric Darby	Eric Darby	FEB 20 2007 1500
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

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STL

Sample Check-in List

Date/Time Received 2/20/07 1500

Client PNL SDG # W05122 NA [ ] SAF # W07-002

Work Order Number: JTB220110 Chain of Custody # ~~W007~~ W07-002-460

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 [✓]

4 Cooler temperature _____ NA [ ] Thermometer/probe used: _____ Acceptable is NA [✓]

5 Number of samples in shipping container 1

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

8 Samples have:
_____ tape
_____ custody seals
_____ hazard labels
✓ appropriate samples labels

9 Samples are
✓ in good condition
_____ broken
_____ leaking
_____ marks or bubbles
(Only for samples requiring head space)

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

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

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

13 Description of anomalies (include sample numbers): _____

Sample Custodian: Em Darby Date: 2/20/07 1500

Client Sample ID	Analysis Requested	Condition	Comment (Action)

Client informed on _____ by _____ Person contacted _____

[ ] No action necessary, process as is.

Project Manager _____ Date _____

LS 032, 9/03, Rev 5

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STL RICHLAND

PNNL J7B220111
WU5122
due 04-06-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W07-002-558

Page 1 of 1

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

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1M7M4		W	2/21/7	0902	1x20-mL P	Activity Scan	None
B1M7M4		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

JPVAJ

Relinquished By	Received By
Fluor Hanford F. M. HALL — Print — Sign — FEB 21 2007 — Date/Time 0930	Print — Sign — FEB 21 2007 — Date/Time 0930
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

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SEVERN TRENT STL

Sample Check-in List

Date/Time Received 02-21-07 0930

Client PGW

SDG # W05122 NA ( ) SAF # W07-002 NA ( )

Work Order Number J7B220111

Chain of Custody # W07-002-558

Shipping Container ID: _____

Air Bill # _____

1 Custody Seals on shipping container? NA ( ) Yes (✓) No ( )

2 Custody Seals dated and signed? NA ( ) Yes (✓) No ( )

3 Chain of Custody record present? NA ( ) Yes (✓) No ( )

4 Cooler temperature _____ NA (✓) Yes (✓) No ( )

5 Vermiculite/packing materials is NA (✓) Yes ( ) No ( )

6 Number of samples in shipping container 1

7 Sample holding times exceeded? NA (✓) Yes ( ) No ( )

8 Samples have:
____ tape
____ custody seals
____ hazard labels
1 appropriate samples labels

9 Samples are
1 in good condition
____ broken
____ leaking
____ bubbles
(Only for samples requiring headspace)

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: S. Smith Date: 02-21-07 0930

Client Sample ID	Analysis Requested	Container	Preservative

Client Informed on _____ by _____ Person contacted _____

( ) No action necessary, process as is.

Project Manager _____ Date _____

LN 022, 9/03, Rev 5

STL RICHLAND

3/26/2007 5:21:53 PM

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: 04/02/2007

Sep1 DT/Tm Tech:

Batch: 7053482 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7053474 ARS6, 7053481 CLTL, 7053482 AZS7, 7053484 BCS8, 7053485 AWTA, 7053486 AWTA,

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 JPMDX-1-AC J7B180105-1-SAMP 02/15/2007 10:24		199.10g,in AmtRec: 20ML,5XLP,4LP	#Containers: 7		13.6mg	50	1UF Scr:	0836 Alpha: 5.05E-05 uCi/Sa	3/27/07 Beta: 2.00E-04 uCi/Sa	
2 JPMDX-1-AG-X J7B180105-1-DUP 02/15/2007 10:24		201.20g,in AmtRec: 20ML,5XLP,4LP	#Containers: 7		16.5mg	50	1U3 Scr:	Alpha: 5.05E-05 uCi/Sa	Beta: 2.00E-04 uCi/Sa	
3 JPMD0-1-AC J7B180105-2-SAMP 02/15/2007 10:24		198.20g,in AmtRec: 20ML,5XLP,4LP	#Containers: 7		12.9mg	50	1U Scr:	Alpha: 3.59E-05 uCi/Sa	Beta: 4.79E-04 uCi/Sa	
4 JPMD1-1-AA J7B180105-3-SAMP 02/15/2007 13:18		200.50g,in AmtRec: 20ML,4XLP	#Containers: 5		10.3mg	50	1U5 Scr:	Alpha: 2.66E-04 uCi/Sa	Beta: 7.14E-04 uCi/Sa 1.3E-01L	
5 JPMD2-1-AA J7B180105-4-SAMP 02/15/2007 09:25		199.80g,in AmtRec: 20ML,4XLP	#Containers: 5		22.8mg	50	1UF Scr:	Alpha: 7.81E-05 uCi/Sa	Beta: 4.66E-04 uCi/Sa	
6 JPMD3-1-AC J7B180105-5-SAMP 02/15/2007 13:57		198.90g,in AmtRec: 20ML,8XLP	#Containers: 9		13.1mg	50	1UA Scr:	0938 Alpha: 4.44E-04 uCi/Sa	3/27/07 Beta: 3.94E-04 uCi/Sa	
7 JPMD4-1-AC J7B180105-6-SAMP 02/15/2007 11:27		194.10g,in AmtRec: 20ML,8XLP	#Containers: 9		36.8mg	50	1UB Scr:	Alpha: 5.99E-05 uCi/Sa	Beta: 8.38E-04 uCi/Sa 1.1E-01L	

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STL RICHLAND

3/26/2007 5:21:55 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: 235

AnalyDueDate: 04/02/2007

Sep1 DT/Tm Tech:

Batch: 7053482 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 JPTR6-1-AC J7B210305-1-SAMP		200.40g,in			44.5mg	50	10C	0538	3/07/07	
02/20/2007 11:25		AmtRec: 20ML,2XLP	#Containers: 3				Scr:	Alpha: -2.28E-04 uCi/Sa	Beta: 8.14E-04 uCi/Sa	1.1E-01L
9 JPT92-1-AA J7B220110-1-SAMP		201.00g,in			24.2mg	50	10D			
02/20/2007 12:30		AmtRec: 20ML,500ML,LP,4LP	#Containers: 4				Scr:	Alpha: -8.05E-04 uCi/Sa	Beta: 1.27E-03 uCi/Sa	
10 JPXFD-1-AA-B J7B220000-482-BLK		202.70g,in			3mg	50	10F			
02/15/2007 10:24		AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:	
11 JPXFD-1-AC-C J7B220000-482-LCS		201.80g,in	ASD4147 02/14/07,pd 02/09/06,r		0.1mg	50	10A	1050	3/07/07	
02/15/2007 10:24		AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:	

Comments: JPMD1-SAMP Comments

DH 3/26/2007

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

JPMDX1AC-SAMP Constituent List:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
JPXFD1AA-BLK:					
ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
JPXFD1AC-LCS:					
Am-241	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

JPMDX1AC-SAMP Calc Info:

101

STL RICHLAND

3/19/2007 9:17:38 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: 235

AnalyDueDate: 04/02/2007 W05122

Sep1 DT/Tm Tech:

Batch: 7053484 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ/APA

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JPMDX-1-AD J7B180105-1-SAMP 02/15/2007 10:24		200.50g,in AmtRec: 20ML,5XLP,4LP	#Containers: 7	1.5	24.2	100	26A Scr:	0852 Alpha: 5.05E-05 uCi/Sa	3/27/07 Beta: 2.00E-04 uCi/Sa	
2 JPMD0-1-AD J7B180105-2-SAMP 02/15/2007 10:24		200.50g,in AmtRec: 20ML,5XLP,4LP	#Containers: 7		24.6		26B Scr:	Alpha: 3.59E-05 uCi/Sa	Beta: 4.79E-04 uCi/Sa	
3 JPMD1-1-AC J7B180105-3-SAMP 02/15/2007 13:18		199.60g,in AmtRec: 20ML,4XLP	#Containers: 5		23.3		26C Scr:	Alpha: 2.66E-04 uCi/Sa	Beta: 7.14E-04 uCi/Sa 1.3E-01L	
4 JPMD2-1-AC J7B180105-4-SAMP 02/15/2007 09:25		199.30g,in AmtRec: 20ML,4XLP	#Containers: 5		29.1		26D Scr:	Alpha: 7.81E-05 uCi/Sa	Beta: 4.66E-04 uCi/Sa	
5 JPMD3-1-AD J7B180105-5-SAMP 02/15/2007 13:57		202.00g,in AmtRec: 20ML,8XLP	#Containers: 9		24.3		27A Scr:	Alpha: 4.44E-04 uCi/Sa	Beta: 3.94E-04 uCi/Sa	
6 JPMD4-1-AD J7B180105-6-SAMP 02/15/2007 11:27		200.90g,in AmtRec: 20ML,8XLP	#Containers: 9		43.1		27B Scr:	Alpha: 5.99E-05 uCi/Sa	Beta: 8.38E-04 uCi/Sa 1.1E-01L	
7 JPTR6-1-AD J7B210305-1-SAMP 02/20/2007 11:25		201.30g,in AmtRec: 20ML,2XLP	#Containers: 3		50.8		27C Scr:	Alpha: -2.28E-04 uCi/Sa	Beta: 8.14E-04 uCi/Sa 1.1E-01L	

102

STL RICHLAND

3/19/2007 9:17:40 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 04/02/2007

Sep1 DT/Tm Tech:

Batch: 7053484 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 JPTR6-1-AE-X J7B210305-1-DUP 02/20/2007 11:25		199.10g,in AmtRec: 20ML,2XLP	#Containers: 3	1.5	66.3	100	27D	0852	3/27/07	Scr: Alpha: -2.26E-04 uCi/Sa Beta: 8.14E-04 uCi/Sa 1.1E-01L
9 JPT92-1-AC J7B220110-1-SAMP 02/20/2007 12:30		200.00g,in AmtRec: 20ML,500ML,LP,4LP	#Containers: 4		40.4		28A			Scr: Alpha: -8.05E-04 uCi/Sa Beta: 1.27E-03 uCi/Sa
10 JPXFM-1-AA-B J7B220000-484-BLK 02/20/2007 11:25		199.90g,in AmtRec:	#Containers: 1		1.9		28B			Scr: Alpha: Beta:
11 JPXFM-1-AC-C J7B220000-484-LCS 02/20/2007 11:25		201.50g,in AmtRec:	BESB3029 02/26/07,pd 08/08/06,r #Containers: 1		∅		28C			Scr: Alpha: Beta:

Comments: ~~JPMD1-SAMP Comments~~

PH < 2.0 JB 3-19-07

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

JPMDX1AD-SAMP Constituent List:

BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
JPXFM1AA-BLK:					
BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
JPXFM1AC-LCS:					
Sr-90	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

JPMDX1AD-SAMP Calc Info:

STL RICHLAND

3/14/2007 12:52:07 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: DRM

AnalyDueDate: 04/02/2007 WO5122

Sep1 DT/Tm Tech: 3/15/07 4:10:52 PM

Batch: 7053481 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech: 3/23/07 9:22:39 AM DRM

SEQ Batch, Test: None

Prep Tech: ,BockJ

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 JPMDV-1-AC J7B180104-1-SAMP		995.90g,in	srtb14557 02/20/07,pd 09/11/06,r YTA17065 Ex:1/3/2008	1.610 2.0184 0.7977			100	9"	1657	3/15/07 DRM	
02/15/2007 13:18		AmtRec: 20ML,4XLP	#Containers: 5					Scr:	Alpha: 2.13E-04 uCi/Sa	Beta: 6.26E-04 uCi/Sa	1.4E-01L
2 JPMDV-1-AD-X J7B180104-1-DUP		999.30g,in	srtb14558 02/20/07,pd 09/11/06,r YTA17066 Ex:1/3/2008	1.739 2.0151 0.8630				3"	1657	3/15/07 DRM	
02/15/2007 13:18		AmtRec: 20ML,4XLP	#Containers: 5					Scr:	Alpha: 2.13E-04 uCi/Sa	Beta: 6.26E-04 uCi/Sa	1.4E-01L
3 JPMDW-1-AC J7B180104-2-SAMP		995.70g,in	srtb14559 02/20/07,pd 09/11/06,r TA17067 Ex:1/3/2008	1.534 2.0151 0.7637				9"	1742	3/15/07 DRM	
02/15/2007 09:25		AmtRec: 20ML,4XLP	#Containers: 5					Scr:	Alpha: -1.54E-07 uCi/Sa	Beta: 1.42E-06 uCi/Sa	
4 JPMDX-1-AF J7B180105-1-SAMP		1002.00g,in	srtb14560 02/20/07,pd 09/11/06,r YTA17068 Ex:1/3/2008	1.735 2.0151 0.8610				3"	1742	3/15/07 DRM	
02/15/2007 10:24		AmtRec: 20ML,5XLP,4LP	#Containers: 7					Scr:	Alpha: 5.05E-05 uCi/Sa	Beta: 2.00E-04 uCi/Sa	

STL RICHLAND

3/14/2007 12:52:10 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 04/02/2007

Sep1 DT/Tm Tech:

Batch: 7053481 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	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
5 JPMD0-1-AF J7B180105-2-SAMP		1006.70g,in	srtb14561 02/20/07,pd 09/11/06,r	1.616 2.0050 0.8060 YTA17069 Ex:1/3/2008			100	9"	1817	3/15/07	
02/15/2007 10:24		AmtRec: 20ML,5XLP,4LP		#Containers: 7				Scr:	Alpha: 3.59E-05 uCi/Sa	Beta: 4.79E-04 uCi/Sa	
6 JPMD3-1-AF See comment Box 96 3/14/01 J7B180105-5-SAMP		969.00g,in	srtb14562 02/20/07,pd 09/11/06,r	1.944 2.0584 0.8598 YTA17070 Ex:1/3/2008				3"	1817	3/15/07	
02/15/2007 13:57		AmtRec: 20ML,8XLP		#Containers: 9				Scr:	Alpha: 4.44E-04 uCi/Sa	Beta: 3.94E-04 uCi/Sa	
7 JPMD4-1-AF J7B180105-6-SAMP		1003.50g,in	srtb14563 02/20/07,pd 09/11/06,r	1.602 2.0584 0.4898 YTA17071 Ex:1/3/2008				9"	1850	3/15/07	
02/15/2007 11:27		AmtRec: 20ML,8XLP		#Containers: 9				Scr:	Alpha: 5.99E-05 uCi/Sa	Beta: 8.38E-04 uCi/Sa	1.1E-01L
8 JPXE2-1-AA-B J7B220000-481-BLK		998.20g,in	srtb14564 02/20/07,pd 09/11/06,r	1.529 2.0050 0.4626 YTA17072 Ex:1/3/2008				3"	1850	3/15/07	
02/15/2007 13:18		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:	

STL RICHLAND

3/14/2007 12:52:12 PM

Sample Preparation/Analysis

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

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

AnalyDueDate: 04/02/2007

Batch: 7053481 pCi/L
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
9 JPXE2-1-AC-C J7B220000-481-LCS		999.00g,in	srsg1321 02/12/07,pd 09/11/06,r	1.182 1.9970 0.5919			100	911	1926	3/15/07 OR	

YTA17073
Ex:1/3/2008

02/15/2007 13:18 AmtRec: #Containers: 1 Scr: Alpha: Beta:

Comments: When pouring up Sample #6 (JPM03) I didn't transfer the amount of sample to cont. but remember the weight being around 968-970 mls. I also used vial for previous pour up, but believe it was already rinsed. Then I added the next vial that was to be used for that sample. pH < 2.0 YB 3-14-07

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

JPMDV1AC-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

JPXE21AA-BLK:

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

JPXE21AC-LCS:

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

JPMDV1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JPXE21AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JPXE21AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

STL RICHLAND

3/23/2007 2:35:37 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: _____

AnalyDueDate: 04/02/2007

Sep1 DT/Tm Tech: 03/15/2007 16:10,ManisD

Batch: 7053481 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech: 03/23/2007 09:22,ManisD

SEQ Batch, Test: None

Prep Tech: ,BockJ

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 JPMDV-1-AC J7B180104-1-SAMP		995.90g,in	srtb14557 02/20/07,pd 09/11/06,r		1.0	22.2	100	7a 7a	1030 0920	3/24/07 R 3/25/07 R	
						~~09/15/2007 16:10,s1, 09/23/2007~~					
02/15/2007 13:18		AmtRec: 20ML,4XLP	#Containers: 5					Scr:	Alpha: 2.13E-04 uCi/Sa	Beta: 6.26E-04 uCi/Sa 1.4E-01L	
2 JPMDV-1-AD-X J7B180104-1-DUP		999.30g,in	srtb14558 02/20/07,pd 09/11/06,r		1.0	23.6	100	7b 7b	1030 0920	3/24/07 R 3/25/07 R	
						~~09/15/2007 16:10,s1, 09/23/2007~~					
02/15/2007 13:18		AmtRec: 20ML,4XLP	#Containers: 5					Scr:	Alpha: 2.13E-04 uCi/Sa	Beta: 6.26E-04 uCi/Sa 1.4E-01L	
3 JPMDW-1-AC J7B180104-2-SAMP		995.70g,in	srtb14559 02/20/07,pd 09/11/06,r		1.5	24.6	100	5A 5A	0922 0920	3/24/07 R 3/25/07 R	
						~~09/15/2007 16:10,s1, 09/23/2007~~					
02/15/2007 09:25		AmtRec: 20ML,4XLP	#Containers: 5					Scr:	Alpha: -1.54E-07 uCi/Sa	Beta: 1.42E-06 uCi/Sa	
4 JPMDX-1-AF J7B180105-1-SAMP		1002.00g,in	srtb14560 02/20/07,pd 09/11/06,r		1.5	24.4	100	5B 5B	0922 0920	3/24/07 R 3/25/07 R	
						~~09/15/2007 16:10,s1, 09/23/2007~~					
02/15/2007 10:24		AmtRec: 20ML,5XLP,4LP	#Containers: 7					Scr:	Alpha: 5.05E-05 uCi/Sa	Beta: 2.00E-04 uCi/Sa	

STL RICHLAND

3/23/2007 2:35:39 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 04/02/2007

Sep1 DT/Tm Tech: 03/15/2007 16:10,ManisD

Batch: 7053481 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech: 03/23/2007 09:22,ManisD

SEQ Batch, Test: None

Prep Tech: ,BockJ

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 JPMD0-1-AF J7B180105-2-SAMP		1006.70g,in	srtb14561 02/20/07,pd 09/11/06,r		1.5	24.2	100		5C 0922 5C 0920	3/24/07 r 3/25/07 r	
						~~09/15/2007 16:10,s1, 03/23/2007~~					
02/15/2007 10:24		AmtRec: 20ML,5XLP,4LP		#Containers: 7				Scr:	Alpha: 3.59E-05 uCi/Sa	Beta: 4.79E-04 uCi/Sa	
6 JPMD3-1-AF J7B180105-5-SAMP		969.00g,in	srtb14562 02/20/07,pd 09/11/06,r		1.5	24.6	100		5d 0922 5d 0920	3/24/07 r 3/25/07 r	
						~~09/15/2007 16:10,s1, 03/23/2007~~					
02/15/2007 13:57		AmtRec: 20ML,8XLP		#Containers: 9				Scr:	Alpha: 4.44E-04 uCi/Sa	Beta: 3.94E-04 uCi/Sa	
7 JPMD4-1-AF J7B180105-6-SAMP		1003.50g,in	srtb14563 02/20/07,pd 09/11/06,r		1.5	23.9	100		6A 0922 6A 0920	3/24/07 r 3/25/07 r	
						~~09/15/2007 16:10,s1, 03/23/2007~~					
02/15/2007 11:27		AmtRec: 20ML,8XLP		#Containers: 9				Scr:	Alpha: 5.99E-05 uCi/Sa	Beta: 8.38E-04 uCi/Sa 1.1E-01L	
8 JPXE2-1-AA-B J7B220000-481-BLK		998.20g,in	srtb14564 02/20/07,pd 09/11/06,r		1.5	23.6	100		6B 0922 6B 0920	3/24/07 r 3/25/07 r	
						~~09/15/2007 16:10,s1, 03/23/2007~~					
02/15/2007 13:18		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:	

STL RICHLAND

3/23/2007 2:35:41 PM

Sample Preparation/Analysis

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

Balance Id:1120482733
Pipet #: _____

AnalyDueDate: 04/02/2007

Sep1 DT/Tm Tech: 03/15/2007 16:10,ManisD

Batch: 7053481 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech: 03/23/2007 09:22,ManisD

Prep Tech: ,BockJ

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:
9 JPXE2-1-AC-C J7B220000-481-LCS		999.00g,in	srsg1321 02/12/07,pd 09/11/06,r		1.5	23.5	100	QC	0922	3/24/07 ~	
								QC	0920	3/25/07 ~	

~~03/15/2007 16:10,s1, 09/23/2007~~

02/15/2007 13:18 AmtRec: #Containers: 1 Scr: Alpha: Beta:

Comments:

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

JPMDV1AC-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

JPXE21AA-BLK:

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

JPXE21AC-LCS:

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

JPMDV1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JPXE21AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JPXE21AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

STL RICHLAND

3/16/2007 12:09:50 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 04/02/2007 WO5122

Sep1 DT/Tm Tech:

Batch: 7053485 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ / ARA

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JPMDX-1-AE J7B180105-1-SAMP 02/15/2007 10:24		1997.90g,in AmtRec: 20ML,5XLP,4LP #Containers: 7			100mL	100	G 13	2133	3/23/07	
								Scr: Alpha: 5.05E-05 uCi/Sa	Beta: 2.00E-04 uCi/Sa	
2 JPMD0-1-AE J7B180105-2-SAMP 02/15/2007 10:24		2000.20g,in AmtRec: 20ML,5XLP,4LP #Containers: 7					G 11	2134		
								Scr: Alpha: 3.59E-05 uCi/Sa	Beta: 4.79E-04 uCi/Sa	
3 JPT92-1-AD J7B220110-1-SAMP 02/20/2007 12:30		1976.00g,in AmtRec: 20ML,500ML,LP,4LP #Containers: 4					G6	2134		
								Scr: Alpha: -8.05E-04 uCi/Sa	Beta: 1.27E-03 uCi/Sa	
4 JPT92-1-AF-X J7B220110-1-DUP 02/20/2007 12:30		1994.20g,in AmtRec: 20ML,500ML,LP,4LP #Containers: 4					G8	2135		
								Scr: Alpha: -8.05E-04 uCi/Sa	Beta: 1.27E-03 uCi/Sa	
5 JPXFT-1-AA-B J7B220000-485-BLK 02/20/2007 12:30		1999.60g,in AmtRec: #Containers: 1					G7	2136		
								Scr: Alpha:	Beta:	
6 JPXFT-1-AC-C J7B220000-485-LCS 02/20/2007 12:30		1997.60g,in AmtRec: #Containers: 1	qcag1342 01/23/07,pd 03/07/05,r				G5	6		
								Scr: Alpha:	Beta:	

STL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 6

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

3/16/2007 12:09:56 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 04/02/2007

Sep1 DT/Tm Tech:

Batch: 7053485 pCi/L

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:

Comments: pH <2.0 93 3-16-07

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

JPMDX1AE-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:

JPXFT1AA-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:

JPXFT1AC-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						

JPMDX1AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JPXFT1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JPXFT1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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STL RICHLAND

3/16/2007 12:47:07 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 04/02/2007 WO5122

Sep1 DT/Tm Tech:

Batch: 7053486 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: BockJ / ARA

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JPMD1-1-AD J7B180105-3-SAMP 02/15/2007 13:18		2500.60g,in AmtRec: 20ML,4XLP	#Containers: 5		100mL	100	68	1450	3/26/07	Scr: Alpha: 2.66E-04 uCi/Sa Beta: 7.14E-04 uCi/Sa 1.3E-01L
2 JPMD1-1-AE-X J7B180105-3-DUP 02/15/2007 13:18		AmtRec: 20ML,4XLP	#Containers: 5		—		613	1633		Scr: Alpha: 2.66E-04 uCi/Sa Beta: 7.14E-04 uCi/Sa 1.3E-01L
3 JPMD2-1-AD J7B180105-4-SAMP 02/15/2007 09:25		2499.40g,in AmtRec: 20ML,4XLP	#Containers: 5		100mL		610	1450	3/26/07	Scr: Alpha: 7.81E-05 uCi/Sa Beta: 4.66E-04 uCi/Sa
4 JPMD3-1-AE J7B180105-5-SAMP 02/15/2007 13:57		2503.90g,in AmtRec: 20ML,8XLP	#Containers: 9				613	1450		Scr: Alpha: 4.44E-04 uCi/Sa Beta: 3.94E-04 uCi/Sa
5 JPMD4-1-AE J7B180105-6-SAMP 02/15/2007 11:27		2499.10g,in AmtRec: 20ML,8XLP	#Containers: 9				612	1520	3/26/07	Scr: Alpha: 5.99E-05 uCi/Sa Beta: 8.38E-04 uCi/Sa 1.1E-01L
6 JPXF2-1-AA-B J7B220000-486-BLK 02/15/2007 13:18		2503.50g,in AmtRec:	#Containers: 1				610	1633		Scr: Alpha: Beta:
7 JPXF2-1-AC-C J7B220000-486-LCS 02/15/2007 13:18		2499.90g,in AmtRec:	QCAG1343 01/23/07,pd 03/07/05,r #Containers: 1				68	1634		Scr: Alpha: Beta:

STL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 7
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.26

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STL RICHLAND

3/16/2007 12:47:13 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 04/02/2007

Sep1 DT/Tm Tech:

Batch: 7053486 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: JPMD1-SAMP "Comments. Dup. not poured up due to insuffiecient sample amount. Please recount on diff. detector. JB 03/16/07 "

PH<2.0 JB 3-16-07

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

JPMD11AD-SAMP Constituent List:

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

JPXF21AA-BLK:

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

JPXF21AC-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						

JPMD11AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JPXF21AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JPXF21AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

STL RICHLAND

3/12/2007 1:49:28 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: 04/02/2007 U205122

Sep1 DT/Tm Tech:

Batch: 7053478 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ, BostedD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JPMDK-1-AC J7B180102-1-SAMP 02/15/2007 12:35	AmtRec: 20ML,500ML,LP,2X4LP #Containers: 5	3958.00g,in	ITA6105 02/23/07		35.1	100	L2	1212	3/29/07 G	Scr: Alpha: 1.19E-04 uCi/Sa Beta: 6.96E-05 uCi/Sa
2 JPMDP-1-AA J7B180103-1-SAMP 02/15/2007 11:03	AmtRec: 20ML,2X4LP #Containers: 3	3906.00g,in	ITA6106 02/23/07		35.1		L4	1212		Scr: Alpha: -2.02E-04 uCi/Sa Beta: 5.61E-04 uCi/Sa
3 JPMDP-1-AC-X J7B180103-1-DUP 02/15/2007 11:03	AmtRec: 20ML,2X4LP #Containers: 3	3932.70g,in	ITA6107 02/23/07		35.8		L5	1213		Scr: Alpha: -2.02E-04 uCi/Sa Beta: 5.61E-04 uCi/Sa
4 JPMDQ-1-AC J7B180103-2-SAMP 02/15/2007 10:15	AmtRec: 20ML,500ML,LP,2X4LP #Containers: 5	3925.80g,in	ITA6108 02/23/07		35.6		L2	1423	3/20/07 G	Scr: Alpha: 1.97E-04 uCi/Sa Beta: 7.91E-05 uCi/Sa
5 JPMDR-1-AC J7B180103-3-SAMP 02/15/2007 10:15	AmtRec: 20ML,500ML,LP,2X4LP #Containers: 5	3954.80g,in	ITA6109 02/23/07		34.6		L4	1423		Scr: Alpha: -9.00E-05 uCi/Sa Beta: 7.91E-05 uCi/Sa
6 JPMDT-1-AC J7B180103-4-SAMP 02/15/2007 11:34	AmtRec: 20ML,500ML,LP,2X4LP #Containers: 5	3952.60g,in	ITA6110 02/23/07		33.8		L5	1423		Scr: Alpha: 3.58E-04 uCi/Sa Beta: 1.15E-04 uCi/Sa
7 JPTQ7-1-AC J7B210304-1-SAMP 02/20/2007 14:16	AmtRec: 20ML,500ML,2X4LP #Containers: 4	3907.10g,in	ITA6111 02/23/07		35.6W		L2	1610	3/20/07 G	Scr: Alpha: 6.26E-06 uCi/Sa Beta: 1.24E-04 uCi/Sa

STL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 7
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.26

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STL RICHLAND

3/12/2007 1:49:33 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

AnalyDueDate: 04/02/2007

Batch: 7053478 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 JPXEJ-1-AA-B J7B220000-478-BLK 02/15/2007 11:03		3769.70g,in AmtRec:	ITA6112 02/23/07 #Containers: 1		35.4	100	L4	1611	3/20/07 Scr: Alpha: Beta:	
9 JPXEJ-1-AC-C J7B220000-478-LCS 02/15/2007 11:03		3995.40g,in AmtRec:	ISD0735 12/20/06 #Containers: 1		39.3		LK	1601	Scr: Alpha: Beta:	

Comments: pH - neutral JS 3-12-07

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

JPMDK1AC-SAMP Constituent List:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
JPXEJ1AA-BLK:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
JPXEJ1AC-LCS:
I-129 RDL:5 pCi/L LCL:70 UCL:130 RPD:20

JPMDK1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JPXEJ1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JPXEJ1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

STL RICHLAND

3/16/2007 12:25:16 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 04/02/2007 WO5122

Sep1 DT/Tm Tech:

Batch: 7053472 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JPMDK-1-AD J7B180102-1-SAMP 02/15/2007 12:35			125.10g,in	125.10g		60				
			AmtRec: 20ML,500ML,LP,2X4LP	#Containers: 5				Scr:	Alpha: 1.19E-04 uCi/Sa	Beta: 6.96E-05 uCi/Sa
2 JPMDK-1-AE-X J7B180102-1-DUP 02/15/2007 12:35			127.40g,in	127.40g						
			AmtRec: 20ML,500ML,LP,2X4LP	#Containers: 5				Scr:	Alpha: 1.19E-04 uCi/Sa	Beta: 6.96E-05 uCi/Sa
3 JPMDL-1-AC J7B180102-2-SAMP 02/15/2007 11:03			125.10g,in	125.10g						
			AmtRec: 20ML,500ML,LP	#Containers: 3				Scr:	Alpha: -1.89E-05 uCi/Sa	Beta: 1.59E-04 uCi/Sa
4 JPMDL-1-AD-S J7B180102-2-MS 02/15/2007 11:03			125.20g,in	125.20g	tcsg1781 02/28/07,pd 01/10/06,r					
			AmtRec: 20ML,500ML,LP	#Containers: 3				Scr:	Alpha: -1.89E-05 uCi/Sa	Beta: 1.59E-04 uCi/Sa
5 JPMDM-1-AC J7B180102-3-SAMP 02/15/2007 07:30			125.70g,in	125.70g						
			AmtRec: 20ML,500ML,LP	#Containers: 3				Scr:	Alpha: 1.25E-04 uCi/Sa	Beta: -2.03E-05 uCi/Sa
6 JPMDN-1-AA J7B180102-4-SAMP 02/15/2007 09:04			127.10g,in	127.10g						
			AmtRec: 20ML,500ML	#Containers: 2				Scr:	Alpha: -5.05E-05 uCi/Sa	Beta: 1.18E-04 uCi/Sa
7 JPMDQ-1-AD J7B180103-2-SAMP 02/15/2007 10:15			126.20g,in	126.20g		4				
			AmtRec: 20ML,500ML,LP,2X4LP	#Containers: 5				Scr:	Alpha: 1.97E-04 uCi/Sa	Beta: 7.91E-05 uCi/Sa

STL RICHLAND

3/16/2007 12:25:20 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 04/02/2007

Sep1 DT/Tm Tech:

Batch: 7053472 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JPMDR-1-AD J7B180103-3-SAMP			126.10g,in	126.10g		60				
02/15/2007 10:15		AmtRec: 20ML,500ML,LP,2X4LP		#Containers: 5				Scr:	Alpha: -9.00E-05 uCi/Sa	Beta: 7.91E-05 uCi/Sa
9 JPMDT-1-AD J7B180103-4-SAMP			125.10g,in	125.10g						
02/15/2007 11:34		AmtRec: 20ML,500ML,LP,2X4LP		#Containers: 5				Scr:	Alpha: 3.58E-04 uCi/Sa	Beta: 1.15E-04 uCi/Sa
10 JPTQ7-1-AA J7B210304-1-SAMP			126.00g,in	126.00g						
02/20/2007 14:16		AmtRec: 20ML,500ML,2X4LP		#Containers: 4				Scr:	Alpha: 6.26E-06 uCi/Sa	Beta: 1.24E-04 uCi/Sa
11 JPT92-1-AE J7B220110-1-SAMP			125.20g,in	125.20g						
02/20/2007 12:30		AmtRec: 20ML,500ML,LP,4LP		#Containers: 4				Scr:	Alpha: -8.05E-04 uCi/Sa	Beta: 1.27E-03 uCi/Sa
12 JPXC5-1-AA-B J7B220000-472-BLK			127.90g,in	127.90g						
02/15/2007 12:35		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:
13 JPXC5-1-AC-C J7B220000-472-LCS			125.10g,in	125.10g	tcse2085 02/21/07,pd 01/10/06,r					
02/15/2007 12:35		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:
14 JPXC5-1-AD-BN J7B220000-472-IBLK						✓				
02/15/2007 12:35		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:

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STL RICHLAND

3/16/2007 12:25:26 PM

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: 04/02/2007

Batch: 7053472 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 JPXC5-1-AE-BN J7B220000-472-IBLK 02/15/2007 12:35	AmtRec:	#Containers: 1				.60		Scr:	Alpha:	Beta:

Comments: PH <2.0 JB 3-14-07

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

JPMDK1AD-SAMP Constituent List:
  Tc-99       RDL:15          pCi/L     LCL:70      UCL:130     RPD:20
JPMDL1AD-MS:

JPXC51AA-BLK:
  Tc-99       RDL:15          pCi/L     LCL:        UCL:        RPD:
JPXC51AC-LCS:
  Tc-99       RDL:15          pCi/L     LCL:70      UCL:130     RPD:20
JPXC51AD-IBLK:
  Tc-99       RDL:15          pCi/L     LCL:        UCL:        RPD:
JPXC51AE-IBLK:
  Tc-99       RDL:15          pCi/L     LCL:        UCL:        RPD:
JPMDK1AD-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JPMDL1AD-MS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JPXC51AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JPXC51AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JPXC51AD-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JPXC51AE-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

2/22/2007 2:45:53 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 04/02/2007 WO5122

Batch: 7053474 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 3-9-07 [illegible]
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 JPMDK-1-AA J7B180102-1-SAMP 02/15/2007 12:35		AmtRec: 20ML,500ML,LP,2X4LP	#Containers: 5			Scr:	Alpha:	Beta:
2 JPMDL-1-AA J7B180102-2-SAMP 02/15/2007 11:03		AmtRec: 20ML,500ML,LP	#Containers: 3			Scr:	Alpha:	Beta:
3 JPMDM-1-AA J7B180102-3-SAMP 02/15/2007 07:30		AmtRec: 20ML,500ML,LP	#Containers: 3			Scr:	Alpha:	Beta:
4 JPMDM-1-AD-X J7B180102-3-DUP 02/15/2007 07:30		AmtRec: 20ML,500ML,LP	#Containers: 3			Scr:	Alpha:	Beta:
5 JPMDQ-1-AA J7B180103-2-SAMP 02/15/2007 10:15		AmtRec: 20ML,500ML,LP,2X4LP	#Containers: 5			Scr:	Alpha:	Beta:
6 JPMDR-1-AA J7B180103-3-SAMP 02/15/2007 10:15		AmtRec: 20ML,500ML,LP,2X4LP	#Containers: 5			Scr:	Alpha:	Beta:
7 JPMDT-1-AA J7B180103-4-SAMP 02/15/2007 11:34		AmtRec: 20ML,500ML,LP,2X4LP	#Containers: 5			Scr:	Alpha:	Beta:

STL RICHLAND

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2/22/2007 2:45:53 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 04/02/2007

Batch: 7053474 **WATER** **pCi/L** **PM, Quote: SA , 57671**
SEQ Batch, Test: None

Balance Id: 13445
Pipet #:
Sep1 DT/Tm Tech: 3-9
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JPMDV-1-AA J7B180104-1-SAMP 02/15/2007 13:18		AmtRec: 20ML,4XLP	#Containers: 5			Scr:	Alpha:	Beta:
9 JPMDW-1-AA J7B180104-2-SAMP 02/15/2007 09:25		AmtRec: 20ML,4XLP	#Containers: 5			Scr:	Alpha:	Beta:
10 JPMDX-1-AA J7B180105-1-SAMP 02/15/2007 10:24		AmtRec: 20ML,5XLP,4LP	#Containers: 7			Scr:	Alpha:	Beta:
11 JPMD0-1-AA J7B180105-2-SAMP 02/15/2007 10:24		AmtRec: 20ML,5XLP,4LP	#Containers: 7			Scr:	Alpha:	Beta:
12 JPMD3-1-AA J7B180105-5-SAMP 02/15/2007 13:57		AmtRec: 20ML,8XLP	#Containers: 9			Scr:	Alpha:	Beta:
13 JPMD4-1-AA J7B180105-6-SAMP 02/15/2007 11:27		AmtRec: 20ML,8XLP	#Containers: 9			Scr:	Alpha:	Beta:
14 JPTR6-1-AA J7B210305-1-SAMP 02/20/2007 11:25		AmtRec: 20ML,2XLP	#Containers: 3			Scr:	Alpha:	Beta:

STL RICHLAND

2/22/2007 2:45:54 PM

Sample Preparation/Analysis

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

AnalyDueDate: 04/02/2007

Batch: 7053474 pCi/L
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 3-9-07
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:
15 JPXDG-1-AA-B J7B220000-474-BLK 02/15/2007 07:30		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
16 JPXDG-1-AC-C J7B220000-474-LCS 02/15/2007 07:30		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
17 JPXDG-1-AD-BX J7B220000-474-MBLK 02/15/2007 07:30		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
18 JPXDG-1-AE-CM J7B220000-474-MLCS 02/15/2007 07:30		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
19 JPXDG-1-AF-BN J7B220000-474-IBLK 02/15/2007 07:30		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
20 JPXDG-1-AG-BN J7B220000-474-IBLK 02/15/2007 07:30		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
21 JPXDG-1-AH-BN J7B220000-474-IBLK 02/15/2007 07:30		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

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STL RICHLAND

2/22/2007 2:45:55 PM

Sample Preparation/Analysis

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

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 3-9-07 Tam
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 04/02/2007

Batch: 7053474 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:

Comments:

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

JPMDK1AA-SAMP Constituent List:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
JPXDG1AA-BLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
JPXDG1AC-LCS:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
JPXDG1AD-MBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
JPXDG1AE-MLCS:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
JPXDG1AF-IBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
JPXDG1AG-IBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
JPXDG1AH-IBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:

JPMDK1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JPXDG1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JPXDG1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JPXDG1AD-MBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JPXDG1AE-MLCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JPXDG1AF-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JPXDG1AG-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JPXDG1AH-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

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3/13/2007 10:13:36 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 04/06/2007 WO5122

Sep1 DT/Tm Tech:

Batch: 7053488 WATER ug/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JPVAJ-1-AA J7B220111-1-SAMP 02/21/2007 09:02		27.40g,in AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: -2.32E-05 uCi/Sa	Beta: 7.47E-05 uCi/Sa
2 JPVAJ-1-AC-S J7B220111-1-MS 02/21/2007 09:02		26.80g,in AmtRec: 20ML,500MLP	UNSF3630 03/06/07,pd 01/23/07,r #Containers: 2			Scr:	Alpha: -2.32E-05 uCi/Sa	Beta: 7.47E-05 uCi/Sa
3 JPVAJ-1-AD-X J7B220111-1-DUP 02/21/2007 09:02		25.10g,in AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: -2.32E-05 uCi/Sa	Beta: 7.47E-05 uCi/Sa
4 JPXF8-1-AA-B J7B220000-488-BLK 02/21/2007 09:02		25.10g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
5 JPXF8-1-AC-C J7B220000-488-LCS 02/21/2007 09:02		25.10g,in AmtRec:	UNSF3631 03/06/07,pd 01/23/07,r #Containers: 1			Scr:	Alpha:	Beta:
6 JPXF8-1-AD-C J7B220000-488-LCS 02/21/2007 09:02		25.20g,in AmtRec:	UNSC1574 02/27/07,pd 04/28/06,r #Containers: 1			Scr:	Alpha:	Beta:

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3/27/2007 4:35:23 PM

ICOC Fraction Transfer/Status Report

ByDate: 3/27/2006, 4/1/2007, Batch: '7053482', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7053482						
AC		CalcC	BockJ	3/19/2007 9:24:57		
SC			wagarr	IsBatched	2/22/2007 2:47:03 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	3/19/2007 9:24:57 AM	rich-rc-5014 rEVISION 6
SC			BockJ	Prep1C	3/19/2007 9:33:14 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	InPrep2	3/26/2007 8:52:50 AM	RICH-RC-5014 REVISION 6
SC			HARBINSOND	Prep1C	3/26/2007 5:12:21 PM	RICHRC5014 REV6
SC			DAWKINSO	InCnt1	3/26/2007 5:59:05 PM	RICH-RD-0003 REVISION 4
SC			BlackCL	CalcC	3/27/2007 11:13:44 AM	RICH-RD-0003 REVISION 4
AC			BockJ	3/19/2007 9:33:14		
AC			AshworthA	3/26/2007 8:52:50		
AC			HARBINSOND	3/26/2007 5:12:21 PM		
AC			DAWKINSO	3/26/2007 5:59:05 PM		
AC			BlackCL	3/27/2007 11:13:44		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.26

3/28/2007 7:48:38 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/28/2006, 4/2/2007, Batch: '7053484', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7053484						
AC		**CalcC**	**BockJ**	3/19/2007 9:07:49		
SC			wagarr	IsBatched	2/22/2007 2:47:03 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	3/19/2007 9:07:49 AM	rich-rc-5014 rEVISION 6
SC			BockJ	Prep1C	3/19/2007 9:17:44 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	InPrep2	3/26/2007 8:52:44 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	Prep2C	3/26/2007 7:02:49 PM	RICH-RC-5014 REVISION 6
SC			DAWKINSO	InCnt1	3/26/2007 7:38:48 PM	RICH-RD-0003 REVISION 4
SC			BlackCL	CalcC	3/27/2007 9:13:42 AM	RICH-RD-0003 REVISION 4
AC			**BockJ**	3/19/2007 9:17:44		
AC			**AshworthA**	3/26/2007 8:52:44		
AC			**AshworthA**	3/26/2007 7:02:49 PM		
AC			**DAWKINSO**	3/26/2007 7:38:48 PM		
AC			**BlackCL**	3/27/2007 9:13:42		

AC: Accepting Entry, SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt:6

ICOCFractions v4.8.26

3/26/2007 12:16:02 PM

ICOC Fraction Transfer/Status Report

ByDate: 3/26/2006, 3/31/2007, Batch: '7053481', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7053481						
AC		CalcC	BockJ	3/14/2007 12:18:28		
SC			wagarr	IsBatched	2/22/2007 2:47:03 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	3/14/2007 12:18:28 PM	rich-rc-5016 rEVISION 6
SC			BockJ	Prep1C	3/14/2007 12:53:16 PM	RICH-RC-5016 REVISION 6
SC			ManisD	InSep1	3/14/2007 2:34:44 PM	RICH-RC-5006 REV 6
SC			ManisD	Sep1C	3/15/2007 4:12:01 PM	RICH-RC-5006 REV 6
SC			DAWKINSO	InCnt1	3/15/2007 4:27:01 PM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	Cnt1C	3/15/2007 7:19:56 PM	RICH-RD-0007 REVISION 5
SC			ManisD	InSep2	3/23/2007 9:21:01 AM	RICH-RC-5071 REV 4
SC			StringerR	InCnt1	3/23/2007 2:40:01 PM	RICH-RD-0003 REVISION 4
SC			BlackCL	CalcC	3/26/2007 5:35:46 AM	RICH-RD-0003 REVISION 4
AC			BockJ	3/14/2007 12:53:16		
AC			ManisD	3/14/2007 2:34:44 PM		
AC			ManisD	3/15/2007 4:12:01 PM		
AC			DAWKINSO	3/15/2007 4:27:01 PM		
AC			DAWKINSO	3/15/2007 7:19:56 PM		
AC			ManisD	3/23/2007 9:21:01		
AC			StringerR	3/23/2007 2:40:01 PM		
AC			BlackCL	3/26/2007 5:35:46		

AC: Accepting Entry; SC: Status Change

3/28/2007 3:53:03 PM

ICOC Fraction Transfer/Status Report

ByDate: 3/28/2006, 4/2/2007, Batch: '7053485', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7053485						
AC		CalcC	BockJ	3/16/2007 12:10:20		
SC			wagarr	IsBatched	2/22/2007 2:47:03 PM	ICOC_RADCALC v4.8.26
SC			BockJ	Prep1C	3/16/2007 12:10:20 PM	RICH-RC-5017 REVISION 5
SC			AshworthA	InPrep2	3/23/2007 9:28:22 AM	RICH-RC-5017 REVISION 4
SC			AshworthA	Prep2C	3/23/2007 7:14:37 PM	RICH-RC-5017 REVISION 4
SC			DAWKINSO	InCnt1	3/23/2007 7:53:06 PM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	CalcC	3/23/2007 9:52:17 PM	RICH-RD-0007 REVISION 5
AC			AshworthA	3/23/2007 9:28:22		
AC			AshworthA	3/23/2007 7:14:37 PM		
AC			DAWKINSO	3/23/2007 7:53:06 PM		
AC			DAWKINSO	3/23/2007 9:52:17 PM		

AC: Accepting Entry; SC: Status Change

3/27/2007 11:57:02 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/27/2006, 4/1/2007, Batch: '7053486', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7053486						
AC		CalcC	BockJ	3/16/2007 12:47:28		
SC			wagarr	IsBatched	2/22/2007 2:47:03 PM	ICOC_RADCALC v4.8.26
SC			BockJ	Prep1C	3/16/2007 12:47:28 PM	RICH-RC-5017 REVISION 5
SC			AshworthA	InPrep2	3/23/2007 9:27:57 AM	RICH-RC-5017 REVISION 4
SC			AshworthA	Prep2C	3/26/2007 12:42:24 PM	RICH-RC-5017 REVISION 4
SC			BlackCL	InCnt1	3/26/2007 1:08:55 PM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	CalcC	3/26/2007 8:15:11 PM	RICH-RD-0007 REVISION 5
AC			AshworthA	3/23/2007 9:27:57		
AC			AshworthA	3/26/2007 12:42:24		
AC			BlackCL	3/26/2007 1:08:55 PM		
AC			DAWKINSO	3/26/2007 8:15:11 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.26

3/21/2007 3:15:46 PM

ICOC Fraction Transfer/Status Report

ByDate: 3/21/2006, 3/26/2007, Batch: '7053478', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7053478						
AC		CalcC	BockJ	3/12/2007 1:50:37 PM		
SC			wagarr	IsBatched	2/22/2007 2:47:03 PM	ICOC_RADCALC v4.8.26
SC			BockJ	Prep1C	3/12/2007 1:50:37 PM	RICH-RC-5017 REVISION 5
SC			BostedD	InPrep2	3/13/2007 9:12:28 AM	RICHRC5025 REV3
SC			BostedD	Prep2C	3/20/2007 9:57:39 AM	RICHRC5025 REV3
SC			BlackCL	InCnt1	3/20/2007 10:30:06 AM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	CalcC	3/20/2007 4:27:39 PM	RICH-RD-0007 REVISION 5
AC			BostedD	3/13/2007 9:12:28		
AC			BostedD	3/20/2007 9:57:39		
AC			BlackCL	3/20/2007 10:30:06		
AC			DAWKINSO	3/20/2007 4:27:39 PM		

AC: Accepting Entry; SC: Status Change

3/28/2007 7:48:01 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/28/2006, 4/2/2007, Batch: '7053472', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7053472						
AC		**CalcC**	**BockJ**	3/16/2007 12:25:38		
SC			wagarr	IsBatched	2/22/2007 2:47:03 PM	ICOC_RADCALC v4.8.26
SC			BockJ	Prep1C	3/16/2007 12:25:38 PM	RICH-RC-5016 REVISION 6
SC			FABREM	Sep1C	3/26/2007 2:00:10 PM	RICH-RC-5065 REVISION 5
SC			BlackCL	InCnt1	3/26/2007 2:10:11 PM	RICH-RD-0001 REVISION 3
SC			BlackCL	CalcC	3/27/2007 11:15:54 AM	RICH-RD-0001 REVISION 3
AC			**FABREM**	3/26/2007 2:00:10 PM		
AC			**BlackCL**	3/26/2007 2:10:11 PM		
AC			**BlackCL**	3/27/2007 11:15:54		

AC: Accepting Entry; SC: Status Change

STL Richland

Rich and Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.26

3/19/2007 3:45:32 PM

ICOC Fraction Transfer/Status Report

ByDate: 3/19/2006, 3/24/2007, Batch: '7053474', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7053474						
AC		**CalcC**	**McDowellD**	3/8/2007 11:10:25		
SC			wagarr	IsBatched	2/22/2007 2:47:03 PM	ICOC_RADCALC v4.8.26
SC			McDowellD	InSep1	3/8/2007 11:10:25 AM	RICH-RC-5007 REVISION 6
SC			McDowellD	Sep1C	3/12/2007 3:22:09 PM	RICH-RC-5007 REVISION 6
SC			DAWKINSO	InCnt1	3/12/2007 5:11:58 PM	RICH-RD-0001 REVISION 3
SC			StringerR	CalcC	3/16/2007 11:04:02 AM	RICH-RD-0001 REVISION 3
AC			**McDowellD**	3/12/2007 3:22:09 PM		
AC			**DAWKINSO**	3/12/2007 5:11:58 PM		
AC			**StringerR**	3/16/2007 11:04:02		

AC: Accepting Entry; SC: Status Change

3/30/2007 11:44:08 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/30/2006, 4/4/2007, Batch: '7053488', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7053488						
AC		Prep2C	BockJ	3/13/2007 10:07:31		
SC			wagarr	IsBatched	2/22/2007 2:47:03 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	3/13/2007 10:07:31 AM	RICH-RC-5014 Revision 6
SC			BockJ	Prep1C	3/13/2007 10:13:47 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	InPrep2	3/28/2007 8:31:14 AM	RICH-RC-5015 REVISION 4
SC			AshworthA	Prep2C	3/29/2007 1:00:34 PM	RICH-RC-5015 REVISION 4
AC			BockJ	3/13/2007 10:13:47		
AC			AshworthA	3/28/2007 8:31:14		
AC			AshworthA	3/29/2007 1:00:34 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.26

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CAT. T3.1
WORKING COPY

W05122

REPORT COVER PAGE 1
CASE NARRATIVE 4
SAMPLE RESULTS SUMMARY 10
DATA REVIEW CHECKLIST/NCM 49
CHAIN OF CUSTODY 72
SAMPLE PREP ANALYSIS SHEETS 100
ICOC 124
TOTAL # PAGES IN DOCUMENT 132

133 pages

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