

Analytical Data Package Prepared For

Fluor Handord

Radiochemical Analysis By

STL Richland STLRL

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

Data Package Contains _____ Pages

Report Nbr: 35843

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05174	W07-005	B1N507	J7E090265-1	JWK1F1AA	9JWK1F10	7138319
		B1N507	J7E090265-1	JWK1F2AC	9JWK1F20	7176518
		B1N506	J7E090265-2	JWK1H1AA	9JWK1H10	7138319
		B1N506	J7E090265-2	JWK1H2AC	9JWK1H20	7176518
		B1N569	J7E090265-3	JWK1L1AA	9JWK1L10	7138319
		B1N561	J7E090265-4	JWK1T1AA	9JWK1T10	7138313
		B1N561	J7E090265-4	JWK1T1AD	9JWK1T10	7138316
		B1N561	J7E090265-4	JWK1T2AC	9JWK1T20	7138314
		B1N5P5	J7E090275-1	JWK2L1AA	9JWK2L10	7138312
		B1N578	J7E100139-1	JWMM91AA	9JWMM910	7138319
		B1N578	J7E100139-1	JWMM92AC	9JWMM920	7176518
		B1N579	J7E100139-2	JWMND1AA	9JWMND10	7138319
		B1N579	J7E100139-2	JWMND2AC	9JWMND20	7176518
		B1N5L9	J7E100139-3	JWMNK2AA	9JWMNK20	7176518
		B1N5H4	J7E110117-1	JWQKM2AA	9JWQKM20	7176518

Comments:

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SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05174	W07-005	B1N5H9	J7E110117-2	JWQKP2AA	9JWQKP20	7176518
		B1N5J4	J7E110117-3	JWQKT2AA	9JWQKT20	7176518
	W07-003	B1MK04	J7E110121-1	JWQL31AA	9JWQL310	7138313
		B1MK04	J7E110121-1	JWQL31AC	9JWQL310	7138314
		B1MK04	J7E110121-1	JWQL32AD	9JWQL320	7176518
I07-044		B1N351	J7E110128-1	JWQPE1AA	9JWQPE10	7138315
		B1N351	J7E110128-1	JWQPE2AC	9JWQPE20	7176518
		B1N2W2	J7E110128-2	JWQPL1AA	9JWQPL10	7138315
		B1N2W2	J7E110128-2	JWQPL2AC	9JWQPL20	7176518
W07-005		B1N5C0	J7E110131-1	JWQPR1AA	9JWQPR10	7138319
		B1N5C0	J7E110131-1	JWQPR1AC	9JWQPR10	7138315
		B1N5C0	J7E110131-1	JWQPR2AD	9JWQPR20	7176518
		B1N5C5	J7E110131-2	JWQP21AA	9JWQP210	7138319
		B1N5C5	J7E110131-2	JWQP21AC	9JWQP210	7138315
		B1N5C5	J7E110131-2	JWQP22AD	9JWQP220	7176518
		B1N5D0	J7E110131-3	JWQQF1AA	9JWQQF10	7138319
		B1N5D0	J7E110131-3	JWQQF2AC	9JWQQF20	7176518
		B1N4Y7	J7E170139-1	JW5K91AA	9JW5K910	7138319
		B1N4Y7	J7E170139-1	JW5K92AC	9JW5K920	7176518
		B1N574	J7E170139-2	JW5P11AA	9JW5P110	7138319
		B1N574	J7E170139-2	JW5P12AC	9JW5P120	7176518
		B1N588	J7E170139-3	JW5Q41AA	9JW5Q410	7138319
B1N588	J7E170139-3	JW5Q41AC	9JW5Q410	7138313		
B1N588	J7E170139-3	JW5Q41AD	9JW5Q410	7138314		
B1N588	J7E170139-3	JW5Q41AE	9JW5Q410	7138317		
B1N588	J7E170139-3	JW5Q41AF	9JW5Q410	7138315		

Comments:

Report Nbr: 35843

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05174	W07-005	B1N588	J7E170139-3	JW5Q41AG	9JW5Q410	7138318
		B1N588	J7E170139-3	JW5Q42AH	9JW5Q420	7176518

Comments:



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 Richland, WA 99354

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Certificate of Analysis

Fluor Hanford
 1200 Jadwin Ave.
 Richland, WA 99352

July 9, 2007

Attention: Steve Trent

SAF Number : W07-005, W07-003, I07-044,
 Date SDG Closed : May 14, 2007
 Number of Samples : Twenty (20)
 Sample Type : Water
 SDG Number : W05174
 Data Deliverable : 45-Day / Summary

CASE NARRATIVE

I. Introduction

Between May 08, 2007 and May 14, 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:

<u>PGW ID#</u>	<u>STLR ID#</u>	<u>DATE OF RECEIPT</u>	<u>MATRIX</u>
B1N507	JWK1F	5/08/07	WATER
B1N506	JWK1H	5/08/07	WATER
B1N569	JWK1L	5/08/07	WATER
B1N561	JWK1T	5/08/07	WATER
B1N5P5	JWK2L	5/09/07	WATER
B1N578	JWMM9	5/09/07	WATER
B1N579	JWMND	5/09/07	WATER
B1N5L9	JWMNK	5/09/07	WATER
B1N5H4	JWQKM	5/09/07	WATER
B1N5H9	JWQKP	5/09/07	WATER
B1N5J4	JWQKT	5/09/07	WATER
B1MK04	JWQL3	5/09/07	WATER
B1N351	JWQPE	5/09/07	WATER

B1N2W2	JWQPL	5/09/07	WATER
B1N5C0	JWQPR	5/09/07	WATER
B1N5C5	JWQP2	5/09/07	WATER
B1N5D0	JWQQF	5/09/07	WATER
B1N4Y7	JW5K9	5/14/07	WATER
B1N574	JW5P1	5/14/07	WATER
B1N588	JW5Q4	5/14/07	WATER

II. Sample Receipt

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

III. Analytical Results/Methodology

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

The requested analyses were:

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014

Gross Beta by method RICH-RC-5014

Gamma Spectroscopy

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

Gamma Spec by method RICH-RC-5017

Iodine-129 (LL) by method RICH-RC-5025

Liquid Scintillation Counting

Technetium-99 by TEVA method RICH-RC-5065

Tritium by method RICH-RC-5007

Nickel 63 by method RICH-RC-5069

Chemical Analysis

Total Coliform by method 9223

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:

Reduced volumes were analyzed based on elevated screen results for samples B1N588 and B1N561. Except as noted, the LCS, batch blank, samples and sample duplicate (B1MK04) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:

Reduced volumes were analyzed based on an elevated screen results for samples B1N588, B1N561 and B1N561 (DUP). The duplicates were out of limits on the first count. The sample (B1N588) and the duplicate (B1N588 DUP) were recounted and were within limits. Sample B1N588 and B1N588 DUP do not meet the CRDL; however the results exceed the achieved MDA. Except as noted, the LCS, batch blank, samples and sample duplicate (B1N588) results are within contractual requirements.

Gamma Spectroscopy

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

The LCS, batch blank, samples and sample duplicate (B1N588) results are within contractual requirements.

Gamma Spec by method RICH-RC-5017:

There was not enough sample for a duplicate. Sample B1N561 was recounted on a different detector for a duplicate. Except as noted, the LCS, batch blank, samples and sample duplicate (B1N561) results are within contractual requirements.

Iodine-129 (LL) by method RICH-RC-5025:

The LCS, batch blank, samples and sample duplicate (B1N5C0) results are within contractual requirements.

Liquid Scintillation Counting

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

The TSIE was outside of acceptable limits, therefore the activity of the samples could not be calculated. The samples were agitated, and submitted for counting a second time. The TSIE is within acceptable limits. Except as noted, the LCS, batch blank, samples, sample duplicate (B1N5H4), and sample matrix spike (B1N5H9) results are within contractual requirements.

Tritium by method RICH-RC-5007:

The LCS, batch blank, samples and sample duplicate (B1N578) results are within contractual requirements.

Nickel 63 by method RICH-RC-5069:

The LCS, batch blank, samples and sample duplicate (B1N588) results are within contractual requirements.

Chemical Analysis

Pacific Northwest National Laboratories
July 9, 2007

Total Coliform by method 9223

The LCS, batch blank, samples and sample duplicate (BIN5P5) results are within contractual requirements.

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

Reviewed and approved:



Sherry 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, $R = \text{constants} * f(x,y,z,...)$. 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/\sqrt{n}), 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) <i>u_c Combined Uncertainty.</i>	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, <i>u_c the combined uncertainty</i> . 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%. $Lc = (1.645 * \text{Sqrt}(2 * (\text{BkgrndCnt} / \text{BkgrndCntMin}) / \text{SCntMin})) * (\text{ConvFct} / (\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol}) * \text{IngrFct})$. 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%. $MDC = (4.65 * \text{Sqrt}((\text{BkgrndCnt} / \text{BkgrndCntMin}) / \text{SCntMin}) + 2.71 / \text{SCntMin}) * (\text{ConvFct} / (\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol}) * \text{IngrFct})$. 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/TotUncert	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 = $(S-D) / [\text{sqrt}(\text{TPUs}^2 + \text{TPUD}^2)]$ 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.

7/9/2007 2:33:10 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35843 File Name: h:\Reportdb\ledd\FeadIV\Rad\W05174.Edd, h:\Reportdb\ledd\FeadIV\Rad\35843.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:				
9JW5K910	B1N4Y7		MW6-SBB-A1	W07-005	W05174					05/14/2007 10:46				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7138319	H-3	10028-17-8	3.11E+03	pCi/L	2.2E+02	2.7E+02		3.00E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/23/2007 05:03	I
9JW5K920	B1N4Y7		MW6-SBB-A1	W07-005	W05174					05/14/2007 10:46				
7176518	TC-99	14133-76-7	8.53E+02	pCi/L	1.6E+01	5.6E+01		9.70E+00	100.0	TC99_ETVDSK_LS	1.262E-01	L	06/27/2007 02:46	I
9JW5P110	B1N574		MW6-SBB-A1	W07-005	W05174					05/14/2007 11:32				
7138319	H-3	10028-17-8	6.46E+03	pCi/L	2.9E+02	4.0E+02		3.00E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/23/2007 06:25	I
9JW5P120	B1N574		MW6-SBB-A1	W07-005	W05174					05/14/2007 11:32				
7176518	TC-99	14133-76-7	3.57E+02	pCi/L	1.1E+01	2.7E+01		9.66E+00	100.0	TC99_ETVDSK_LS	1.263E-01	L	06/27/2007 02:46	I
9JW5Q410	B1N588		MW6-SBB-A1	W07-005	W05174					05/14/2007 12:06				
7138319	H-3	10028-17-8	1.90E+04	pCi/L	4.6E+02	8.7E+02		2.98E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/23/2007 07:47	I
7138313	ALPHA	12587-46-1	1.15E+00	pCi/L	9.7E-01	1.0E+00	U	1.57E+00	100.0	9310_ALPHABETA	1.371E-01	L	06/27/2007 11:45	I
7138314	BETA	12587-47-2	4.26E+02	pCi/L	1.1E+01	6.8E+01		3.64E+00	100.0	9310_ALPHABETA	1.557E-01	L	06/27/2007 08:34	I
7138317	BE-7	13966-02-4	3.12E+00	pCi/L	1.8E+01	1.8E+01	U	3.41E+01		GAMMALL_GS	1.9902E+00	L	06/27/2007 14:21	I
7138317	CO-60	10198-40-0	-1.28E-01	pCi/L	1.8E+00	1.8E+00	U	3.43E+00		GAMMALL_GS	1.9902E+00	L	06/27/2007 14:21	I
7138317	CS-134	13967-70-9	-4.36E-01	pCi/L	1.8E+00	1.8E+00	U	3.31E+00		GAMMALL_GS	1.9902E+00	L	06/27/2007 14:21	I
7138317	CS-137	10045-97-3	-1.07E+00	pCi/L	1.6E+00	1.6E+00	U	2.60E+00		GAMMALL_GS	1.9902E+00	L	06/27/2007 14:21	I
7138317	EU-152	14683-23-9	1.77E+00	pCi/L	3.9E+00	3.9E+00	U	7.24E+00		GAMMALL_GS	1.9902E+00	L	06/27/2007 14:21	I
7138317	EU-154	15585-10-1	-1.82E+00	pCi/L	5.5E+00	5.5E+00	U	9.69E+00		GAMMALL_GS	1.9902E+00	L	06/27/2007 14:21	I
7138317	EU-155	14391-16-3	1.30E+00	pCi/L	3.0E+00	3.0E+00	U	5.76E+00		GAMMALL_GS	1.9902E+00	L	06/27/2007 14:21	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.

7/9/2007 2:33:10 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35843 File Name: h:\Reportdb\ledd\FeadIV\Rad\W05174.Edd, h:\Reportdb\ledd\FeadIV\Rad\35843.Edd

7138317	K-40	13966-00-2	-9.13E+00	pCi/L	3.5E+01	3.5E+01	U	7.34E+01	GAMMALL_GS	1.9902E+00	L	06/27/2007	14:21	I
7138317	RU-106	13967-48-1	1.11E+01	pCi/L	1.4E+01	1.4E+01	U	2.57E+01	GAMMALL_GS	1.9902E+00	L	06/27/2007	14:21	I
7138317	SB-125	14234-35-6	5.05E-01	pCi/L	3.6E+00	3.6E+00	U	6.70E+00	GAMMALL_GS	1.9902E+00	L	06/27/2007	14:21	I
7138315	I-129L	15046-84-1	3.82E-01	pCi/L	2.1E-01	2.1E-01	U	3.68E-01	I129LL_SEP_LEPS	3.9345E+00	L	06/27/2007	15:23	I
7138318	NI-63	13981-37-8	1.93E+00	pCi/L	1.5E+00	2.6E+00	U	3.55E+00	NI63_LSC	4.002E-01	L	06/26/2007	02:41	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:				
9JW5Q420	B1N588		MW6-SBB-A1	W07-005	W05174					05/14/2007 12:06				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7176518	TC-99	14133-76-7	1.73E+03	pCi/L	2.3E+01	1.1E+02		9.72E+00	100.0	TC99_ETVDSK_LS	1.254E-01	L	06/27/2007 02:46	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWK1F10	B1N507		MW6-SBB-A1	W07-005	W05174					05/08/2007 07:30				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7138319	H-3	10028-17-8	1.15E+02	pCi/L	1.3E+02	1.4E+02	U	3.02E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/22/2007 12:43	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWK1F20	B1N507		MW6-SBB-A1	W07-005	W05174					05/08/2007 07:30				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7176518	TC-99	14133-76-7	7.59E-01	pCi/L	4.0E+00	5.4E+00	U	9.74E+00	100.0	TC99_ETVDSK_LS	1.248E-01	L	06/27/2007 02:45	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWK1H10	B1N506		MW6-SBB-A1	W07-005	W05174					05/08/2007 09:47				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7138319	H-3	10028-17-8	3.79E+04	pCi/L	6.4E+02	1.6E+03		3.01E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/22/2007 14:04	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:				
9JWK1H20	B1N506		MW6-SBB-A1	W07-005	W05174					05/08/2007 09:47				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7176518	TC-99	14133-76-7	1.70E+02	pCi/L	8.1E+00	1.5E+01		9.75E+00	100.0	TC99_ETVDSK_LS	1.256E-01	L	06/27/2007 02:45	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JWK1L10	B1N569		MW6-SBB-A1	W07-005	W05174					05/08/2007 12:36

7/9/2007 2:33:10 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35843 File Name: h:\Reportdb\edd\FeadIV\Rad\W05174.Edd, h:\Reportdb\edd\FeadIV\Rad\35843.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7138319	H-3	10028-17-8	2.30E+04	pCi/L	5.0E+02	1.0E+03		2.99E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/22/2007 15:26	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:
9JWK1T10	B1N561		MW6-SBB-A1	W07-005	W05174					05/08/2007 10:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7138313	ALPHA	12587-46-1	2.35E+00	pCi/L	1.7E+00	1.8E+00	U	2.58E+00	100.0	9310_ALPHABETA	5.31E-02	L	06/27/2007 07:48	I
7138316	BE-7	13966-02-4	-2.22E+01	pCi/L	2.5E+01	2.5E+01	U	3.89E+01		GAMMA_GS	2.4993E+00	L	06/27/2007 14:19	I
7138316	CO-60	10198-40-0	1.81E+00	pCi/L	2.0E+00	2.0E+00	U	4.52E+00		GAMMA_GS	2.4993E+00	L	06/27/2007 14:19	I
7138316	CS-134	13967-70-9	9.53E-01	pCi/L	2.2E+00	2.2E+00	U	4.32E+00		GAMMA_GS	2.4993E+00	L	06/27/2007 14:19	I
7138316	CS-137	10045-97-3	6.72E-01	pCi/L	2.0E+00	2.0E+00	U	3.75E+00		GAMMA_GS	2.4993E+00	L	06/27/2007 14:19	I
7138316	EU-152	14683-23-9	-2.23E+00	pCi/L	4.0E+00	4.0E+00	U	6.66E+00		GAMMA_GS	2.4993E+00	L	06/27/2007 14:19	I
7138316	EU-154	15585-10-1	-2.82E+00	pCi/L	5.2E+00	5.2E+00	U	9.07E+00		GAMMA_GS	2.4993E+00	L	06/27/2007 14:19	I
7138316	EU-155	14391-16-3	-1.28E+00	pCi/L	3.1E+00	3.1E+00	U	5.28E+00		GAMMA_GS	2.4993E+00	L	06/27/2007 14:19	I
7138316	K-40	13966-00-2	-1.50E+00	pCi/L	4.0E+01	4.0E+01	U	8.73E+01		GAMMA_GS	2.4993E+00	L	06/27/2007 14:19	I
7138316	RU-106	13967-48-1	1.38E+00	pCi/L	1.7E+01	1.7E+01	U	3.24E+01		GAMMA_GS	2.4993E+00	L	06/27/2007 14:19	I
7138316	SB-125	14234-35-6	2.30E+00	pCi/L	4.9E+00	4.9E+00	U	9.35E+00		GAMMA_GS	2.4993E+00	L	06/27/2007 14:19	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:
9JWK1T20	B1N561		MW6-SBB-A1	W07-005	W05174					05/08/2007 10:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7138314	BETA	12587-47-2	1.17E+03	pCi/L	2.0E+01	1.5E+02		6.08E+00	100.0	9310_ALPHABETA	6.40E-02	L	06/27/2007 16:29	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:
9JWMM910	B1N578		MW6-SBB-A1	W07-005	W05174					05/09/2007 10:44

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7138319	H-3	10028-17-8	7.42E+03	pCi/L	3.0E+02	4.3E+02		2.99E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/22/2007 16:48	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JWMM920	B1N578		MW6-SBB-A1	W07-005	W05174					05/09/2007 10:44

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7176518	TC-99	14133-76-7	2.00E+02	pCi/L	8.6E+00	1.7E+01		9.75E+00	100.0	TC99_ETVDSK_LS	1.25E-01	L	06/27/2007 02:45	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:

7/9/2007 2:33:10 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35843 File Name: h:\Reportdb\ledd\FeadIV\Rad\W05174.Edd, h:\Reportdb\ledd\FeadIV\Rad\35843.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9JWMND10	B1N579												05/09/2007 10:44	
7138319	H-3	10028-17-8	7.73E+03	pCi/L	3.1E+02	4.5E+02		3.01E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/22/2007 19:31	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:				
9JWMND20	B1N579												05/09/2007 10:44	
7176518	TC-99	14133-76-7	1.94E+02	pCi/L	8.5E+00	1.7E+01		9.79E+00	100.0	TC99_ETVDSK_LS	1.248E-01	L	06/27/2007 02:45	I
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWMNK20	B1N5L9												05/09/2007 13:22	
7176518	TC-99	14133-76-7	1.04E+03	pCi/L	1.8E+01	6.8E+01		9.67E+00	100.0	TC99_ETVDSK_LS	1.26E-01	L	06/27/2007 02:45	I
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWQKM20	B1N5H4												05/09/2007 09:54	
7176518	TC-99	14133-76-7	8.49E+02	pCi/L	1.6E+01	5.6E+01		9.77E+00	100.0	TC99_ETVDSK_LS	1.252E-01	L	06/27/2007 02:45	I
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWQKP20	B1N5H9												05/09/2007 11:26	
7176518	TC-99	14133-76-7	3.12E+01	pCi/L	5.0E+00	7.2E+00		9.69E+00	100.0	TC99_ETVDSK_LS	1.259E-01	L	06/27/2007 02:46	I
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWQKT20	B1N5J4												05/09/2007 12:21	
7176518	TC-99	14133-76-7	2.14E+01	pCi/L	4.7E+00	6.6E+00		9.65E+00	100.0	TC99_ETVDSK_LS	1.262E-01	L	06/27/2007 02:46	I
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWQL310	B1MK04												05/09/2007 09:27	
7138313	ALPHA	12587-46-1	1.39E+00	pCi/L	1.2E+00	1.2E+00	U	1.72E+00	100.0	9310_ALPHABETA	1.985E-01	L	06/27/2007 10:09	I
7138314	BETA	12587-47-2	9.98E+00	pCi/L	1.9E+00	2.4E+00		2.83E+00	100.0	9310_ALPHABETA	2.012E-01	L	06/27/2007 08:34	I

STL Richland

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

rptFeadRadSummaryEdd v3.48

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

7/9/2007 2:33:10 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35843 File Name: h:\Reportdb\edd\FeadIV\Rad\W05174.Edd, h:\Reportdb\edd\FeadIV\Rad\35843.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:				
9JWQL320	B1MK04		MW6-SBB-A1	W07-003	W05174					05/09/2007 09:27				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7176518	TC-99	14133-76-7	9.57E+00	pCi/L	4.3E+00	5.9E+00	U	9.66E+00	100.0	TC99_ETVDSK_LS	1.262E-01	L	06/27/2007 02:46	I
9JWQP210	B1N5C5		MW6-SBB-A1	W07-005	W05174					05/09/2007 10:36				
7138319	H-3	10028-17-8	6.45E+03	pCi/L	2.8E+02	4.0E+02		3.00E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/22/2007 22:14	I
7138315	I-129L	15046-84-1	5.61E-01	pCi/L	1.6E-01	1.6E-01	U	3.44E-01	98.4	I129LL_SEP_LEPS	3.9303E+00	L	06/27/2007 15:22	I
9JWQP220	B1N5C5		MW6-SBB-A1	W07-005	W05174					05/09/2007 10:36				
7176518	TC-99	14133-76-7	6.60E+02	pCi/L	1.4E+01	4.5E+01		9.67E+00	100.0	TC99_ETVDSK_LS	1.263E-01	L	06/27/2007 02:46	I
9JWQPE10	B1N351		MW6-SBB-A1	I07-044	W05174					05/09/2007 09:02				
7138315	I-129L	15046-84-1	3.10E-01	pCi/L	1.7E-01	1.7E-01	U	3.54E-01	97.0	I129LL_SEP_LEPS	3.9594E+00	L	06/27/2007 12:51	I
9JWQPE20	B1N351		MW6-SBB-A1	I07-044	W05174					05/09/2007 09:02				
7176518	TC-99	14133-76-7	5.98E+01	pCi/L	5.8E+00	8.9E+00		9.70E+00	100.0	TC99_ETVDSK_LS	1.255E-01	L	06/27/2007 02:46	I
9JWQPL10	B1N2W2		MW6-SBB-A1	I07-044	W05174					05/09/2007 11:31				
7138315	I-129L	15046-84-1	2.61E-01	pCi/L	1.4E-01	1.4E-01	U	2.76E-01	99.2	I129LL_SEP_LEPS	3.9362E+00	L	06/27/2007 12:55	I
9JWQPL20	B1N2W2		MW6-SBB-A1	I07-044	W05174					05/09/2007 11:31				

7/9/2007 2:33:10 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35843 File Name: h:\Reportdb\ledd\FeadIV\Rad\W05174.Edd, h:\Reportdb\ledd\FeadIV\Rad\35843.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7176518	TC-99	14133-76-7	1.71E+02	pCi/L	8.1E+00	1.6E+01		9.71E+00	100.0	TC99_ETVDSK_LS	1.256E-01	L	06/27/2007 02:46	I
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWQPR10	B1N5C0		MW6-SBB-A1	W07-005	W05174					05/09/2007 12:29				
7138319	H-3	10028-17-8	2.76E+03	pCi/L	2.1E+02	2.5E+02		2.99E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/22/2007 20:53	I
7138315	I-129L	15046-84-1	6.21E-02	pCi/L	1.4E-01	1.4E-01	U	2.75E-01	96.2	I129LL_SEP_LEPS	3.879E+00	L	06/27/2007 12:56	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:				
9JWQPR20	B1N5C0		MW6-SBB-A1	W07-005	W05174					05/09/2007 12:29				
7176518	TC-99	14133-76-7	3.33E+02	pCi/L	1.1E+01	2.5E+01		9.74E+00	100.0	TC99_ETVDSK_LS	1.252E-01	L	06/27/2007 02:46	I
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWQQF10	B1N5D0		MW6-SBB-A1	W07-005	W05174					05/09/2007 13:23				
7138319	H-3	10028-17-8	4.33E+03	pCi/L	2.4E+02	3.2E+02		3.00E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/23/2007 03:42	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:				
9JWQQF20	B1N5D0		MW6-SBB-A1	W07-005	W05174					05/09/2007 13:23				
7176518	TC-99	14133-76-7	5.61E+02	pCi/L	1.3E+01	3.9E+01		9.72E+00	100.0	TC99_ETVDSK_LS	1.258E-01	L	06/27/2007 02:46	I

Monday, July 09, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05174.Edd, h:\Reportdb\edd\FeadIV\Rad\35843.Edd

Lab Sample Id: JW9D22AB

Sdg/Rept Nbr: W05174 35843

Collection Date: 05/09/2007 09:54

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/09/2007

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
7176518 BLK	TC-99 14133-76-7	1.52E+00	pCi/L	3.5E+00 2.6E+00	U	6.10E+00	100.0		TC99_ETVDSK	1.997E-01 L	06/27/2007 02:46				D

Monday, July 09, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05174.Edd, h:\Reportdb\edd\FeadIV\Rad\35843.Edd

Lab Sample Id: JW9E11AB

Sdg/Rept Nbr: W05174 35843

Collection Date: 05/08/2007 10:45

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/08/2007

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
7138314 BLK	BETA 12587-47-2	7.85E-01	pCi/L	9.1E-01 9.0E-01	U	1.75E+00	100.0		9310_ALPHAB	2.002E-01 L	06/27/2007 09:25				D

Monday, July 09, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\ledd\Fead\I\Rad\W05174.Edd, h:\Reportdb\ledd\Fead\I\Rad\35843.Edd

Lab Sample Id: JW9E51AB

Sdg/Rept Nbr: W05174 35843

Collection Date: 05/09/2007 12:29

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/09/2007

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
7138315 BLK	I-129L 15046-84-1	-4.37E-02	pCi/L	1.4E-01 1.4E-01	U	2.45E-01	95.1		I129LL_SEP_L	3.9898E+00 L	06/27/2007 17:04				D

Monday, July 09, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05174.Edd, h:\Reportdb\edd\Fead\I\Rad\35843.Edd

Lab Sample Id: JW9E91AB

Sdg/Rept Nbr: W05174 35843

Collection Date: 05/08/2007 10:45

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/08/2007

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	Qual	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7138316	BE-7	-1.07E+01	pCi/L	2.1E+01	U	3.60E+01			GAMMA_GS	2.5035E+00	06/27/2007				D
	BLK 13966-02-4			2.1E+01						L	14:19				
7138316	CO-60	5.70E-01	pCi/L	1.7E+00	U	3.64E+00			GAMMA_GS	2.5035E+00	06/27/2007				D
	BLK 10198-40-0			1.7E+00						L	14:19				
7138316	CS-134	1.29E+00	pCi/L	1.9E+00	U	3.94E+00			GAMMA_GS	2.5035E+00	06/27/2007				D
	BLK 13967-70-9			1.9E+00						L	14:19				
7138316	CS-137	3.68E-01	pCi/L	1.7E+00	U	3.21E+00			GAMMA_GS	2.5035E+00	06/27/2007				D
	BLK 10045-97-3			1.7E+00						L	14:19				
7138316	EU-152	2.74E+00	pCi/L	4.2E+00	U	8.03E+00			GAMMA_GS	2.5035E+00	06/27/2007				D
	BLK 14683-23-9			4.2E+00						L	14:19				
7138316	EU-154	3.10E+00	pCi/L	4.0E+00	U	9.62E+00			GAMMA_GS	2.5035E+00	06/27/2007				D
	BLK 15585-10-1			4.0E+00						L	14:19				
7138316	EU-155	-1.01E-01	pCi/L	2.8E+00	U	5.05E+00			GAMMA_GS	2.5035E+00	06/27/2007				D
	BLK 14391-16-3			2.8E+00						L	14:19				
7138316	K-40	-8.63E+00	pCi/L	2.4E+01	U	4.68E+01			GAMMA_GS	2.5035E+00	06/27/2007				D
	BLK 13966-00-2			2.4E+01						L	14:19				
7138316	RU-106	-8.20E+00	pCi/L	1.3E+01	U	2.24E+01			GAMMA_GS	2.5035E+00	06/27/2007				D
	BLK 13967-48-1			1.3E+01						L	14:19				
7138316	SB-125	3.81E+00	pCi/L	4.2E+00	U	8.56E+00			GAMMA_GS	2.5035E+00	06/27/2007				D
	BLK 14234-35-6			4.2E+00						L	14:19				

Monday, July 09, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05174.Edd, h:\Reportdb\edd\FeadIV\Rad\35843.Edd

Lab Sample Id: JW9EX1AB

Sdg/Rept Nbr: W05174

35843

Collection Date: 05/09/2007 09:27

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/09/2007

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
7138313 BLK	ALPHA 12587-46-1	5.97E-02	pCi/L	1.3E-01 1.3E-01	U	2.85E-01	100.0		9310_ALPHAB	2.00E-01 L	06/27/2007 07:48				D

Monday, July 09, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05174.Edd, h:\Reportdb\edd\FeadIV\Rad\35843.Edd

Lab Sample Id: JW9FA1AB

Sdg/Rept Nbr: W05174

35843

Collection Date: 05/14/2007 12:06

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/14/2007

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
7138317 BLK	BE-7 13966-02-4	-2.42E+01	pCi/L	3.3E+01 3.3E+01	U	5.42E+01			GAMMALL_GS	1.9992E+00 L	06/27/2007 14:21				D
7138317 BLK	CO-60 10198-40-0	1.28E+00	pCi/L	2.5E+00 2.5E+00	U	5.41E+00			GAMMALL_GS	1.9992E+00 L	06/27/2007 14:21				D
7138317 BLK	CS-134 13967-70-9	-9.23E-01	pCi/L	2.5E+00 2.5E+00	U	4.39E+00			GAMMALL_GS	1.9992E+00 L	06/27/2007 14:21				D
7138317 BLK	CS-137 10045-97-3	-5.04E-01	pCi/L	2.7E+00 2.7E+00	U	4.85E+00			GAMMALL_GS	1.9992E+00 L	06/27/2007 14:21				D
7138317 BLK	EU-152 14683-23-9	2.28E+00	pCi/L	6.8E+00 6.8E+00	U	1.25E+01			GAMMALL_GS	1.9992E+00 L	06/27/2007 14:21				D
7138317 BLK	EU-154 15585-10-1	-6.05E+00	pCi/L	8.8E+00 8.8E+00	U	1.44E+01			GAMMALL_GS	1.9992E+00 L	06/27/2007 14:21				D
7138317 BLK	EU-155 14391-16-3	2.41E+00	pCi/L	4.8E+00 4.8E+00	U	8.78E+00			GAMMALL_GS	1.9992E+00 L	06/27/2007 14:21				D
7138317 BLK	K-40 13966-00-2	-4.43E+01	pCi/L	6.3E+01 6.3E+01	U	1.36E+02			GAMMALL_GS	1.9992E+00 L	06/27/2007 14:21				D
7138317 BLK	RU-106 13967-48-1	1.30E+01	pCi/L	2.3E+01 2.3E+01	U	4.48E+01			GAMMALL_GS	1.9992E+00 L	06/27/2007 14:21				D
7138317 BLK	SB-125 14234-35-6	3.06E-01	pCi/L	6.4E+00 6.4E+00	U	1.16E+01			GAMMALL_GS	1.9992E+00 L	06/27/2007 14:21				D

Monday, July 09, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05174.Edd, h:\Reportdb\edd\FeadIV\Rad\35843.Edd

Lab Sample Id: JW9FE1AB

Sdg/Rept Nbr: W05174 35843

Collection Date: 05/14/2007 12:06

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/14/2007

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	ToI/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
7138318 BLK	NI-63 13981-37-8	3.29E+00	pCi/L	2.6E+00 1.5E+00	U	3.43E+00	98.1		NI63_LSC	3.984E-01 L	06/26/2007 06:07				D

Monday, July 09, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05174.Edd, h:\Reportdb\edd\FeadIV\Rad\35843.Edd

Lab Sample Id: JW9FG1AB

Sdg/Rept Nbr: W05174

35843

Collection Date: 05/09/2007 10:44

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/09/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType					
	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
7138319 BLK	H-3 10028-17-8	-2.56E+01	pCi/L	1.3E+02 1.2E+02	U	3.01E+02	100.0		906.0_H3_LSC	5.00E-03 L	06/22/2007 09:59				D

Monday, July 09, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\eddd\FeadIV\Rad\W05174.Edd, h:\Reportdb\eddd\FeadIV\Rad\35843.Edd

Lab Sample Id: JW9FG1DX

Sdg/Rept Nbr: W05174 35843

Collection Date: 05/09/2007 10:44

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/09/2007

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
7138319 BLK	H-3 10028-17-8	-1.16E+02	pCi/L	1.3E+02 1.2E+02	U	3.03E+02	100.0		906.0_H3_LSC	5.00E-03 L	06/23/2007 00:58				D

Monday, July 09, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\Rad\W05174.Edd, h:\Reportdb\edd\Fead\Rad\35843.Edd

Lab Sample Id: JW9D22CS

Sdg/Rept Nbr: W05174 35843

Collection Date: 05/09/2007 09:54

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/09/2007

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
7176518 BS	TC-99 14133-76-7	3.33E+02	pCi/L	2.3E+01 8.2E+00		6.12E+00	100.0	3.41E+02 97.9	TC99_ETVDSK	1.996E-01 L	06/27/2007 02:46			70 130	D

Monday, July 09, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05174.Edd, h:\Reportdb\edd\Fead\I\Rad\35843.Edd

Lab Sample Id: JW9E11CS

Sdg/Rept Nbr: W05174 35843

Collection Date: 05/08/2007 10:45

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/08/2007

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
7138314 BS	BETA 12587-47-2	2.12E+01	pCi/L	3.2E+00 1.7E+00		1.80E+00	100.0	2.28E+01 92.9	9310_ALPHAB	1.99E-01 L	06/27/2007 09:25			70 130	D

Monday, July 09, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05174.Edd, h:\Reportdb\edd\Fead\I\Rad\35843.Edd

Lab Sample Id: JW9E51CS

Sdg/Rept Nbr: W05174 35843

Collection Date: 05/09/2007 12:29

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/09/2007

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
7138315 BS	I-129L 15046-84-1	8.92E+00	pCi/L	1.2E+00 1.2E+00		4.08E-01	91.3	9.54E+00 93.6	I129LL_SEP_L	3.9732E+00 L	06/27/2007 17:07			70 130	D

Monday, July 09, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\eddd\FeadIV\Rad\W05174.Edd, h:\Reportdb\eddd\FeadIV\Rad\35843.Edd

Lab Sample Id: JW9E91CS

Sdg/Rept Nbr: W05174 35843

Collection Date: 05/08/2007 10:45

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/08/2007

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
7138316 BS	CO-60 10198-40-0	3.30E+01	pCi/L	7.9E+00 7.9E+00		4.44E+00		3.04E+01 108.3	GAMMA_GS	2.498E+00 L	06/27/2007 14:20			75 125	D
7138316 BS	CS-137 10045-97-3	1.94E+01	pCi/L	4.9E+00 4.9E+00		4.06E+00		1.98E+01 97.9	GAMMA_GS	2.498E+00 L	06/27/2007 14:20			70 130	D
7138316 BS	EU-152 14683-23-9	7.01E+01	pCi/L	1.6E+01 1.6E+01		9.46E+00		6.14E+01 114.1	GAMMA_GS	2.498E+00 L	06/27/2007 14:20			70 130	D

Monday, July 09, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\eddd\Fead\I\Rad\W05174.Edd, h:\Reportdb\eddd\Fead\I\Rad\35843.Edd

Lab Sample Id: JW9EX1CS

Sdg/Rept Nbr: W05174 35843

Collection Date: 05/09/2007 09:27

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/09/2007

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
7138313 BS	ALPHA 12587-46-1	2.22E+01	pCi/L	5.3E+00 1.5E+00		4.07E-01	100.0	2.26E+01 98.3	9310_ALPHAB	2.012E-01 L	06/27/2007 07:48			70 130	D

Monday, July 09, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadI\Rad\W05174.Edd, h:\Reportdb\edd\FeadI\Rad\35843.Edd

Lab Sample Id: JW9FA1CS

Sdg/Rept Nbr: W05174

35843

Collection Date: 05/14/2007 12:06

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/14/2007

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
7138317 BS	CO-60 10198-40-0	3.97E+01	pCi/L	8.2E+00 8.2E+00		3.96E+00		3.81E+01 104.2	GAMMALL_GS	2.0003E+00 L	06/27/2007 14:24			70 130	D
7138317 BS	CS-137 10045-97-3	3.01E+01	pCi/L	6.8E+00 6.8E+00		3.08E+00		2.47E+01 121.9	GAMMALL_GS	2.0003E+00 L	06/27/2007 14:24			70 130	D
7138317 BS	EU-152 14683-23-9	7.76E+01	pCi/L	1.5E+01 1.5E+01		9.12E+00		7.63E+01 101.7	GAMMALL_GS	2.0003E+00 L	06/27/2007 14:24			70 130	D

Monday, July 09, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\ledd\Fead\I\Rad\W05174.Edd, h:\Reportdb\ledd\Fead\I\Rad\35843.Edd

Lab Sample Id: JW9FE1CS

Sdg/Rept Nbr: W05174 35843

Collection Date: 05/14/2007 12:06

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/14/2007

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
7138318 BS	NI-63 13981-37-8	2.94E+02	pCi/L	2.2E+01 5.0E+00		3.43E+00	98.4	3.79E+02 77.5	NI63_LSC	3.992E-01 L	06/26/2007 07:49			70 130	D

Monday, July 09, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\Rad\W05174.Edd, h:\Reportdb\edd\Fead\Rad\35843.Edd

Lab Sample Id: JW9FG1CS

Sdg/Rept Nbr: W05174 35843

Collection Date: 05/09/2007 10:44

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/09/2007

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
7138319 BS	H-3 10028-17-8	2.58E+03	pCi/L	2.5E+02 2.0E+02		3.01E+02	100.0	2.73E+03 94.5	906.0_H3_LSC	5.00E-03 L	06/22/2007 11:21			70 130	D

Monday, July 09, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\eddd\Fead\W05174.Edd, h:\Reportdb\eddd\Fead\W05174.Edd, h:\Reportdb\eddd\Fead\W05174.Edd, h:\Reportdb\eddd\Fead\W05174.Edd

Lab Sample Id: JW9FG1EM

Sdg/Rept Nbr: W05174 35843

Collection Date: 05/09/2007 10:44

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/09/2007

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
7138319 BS	H-3 10028-17-8	2.68E+03	pCi/L	2.5E+02 2.1E+02		3.02E+02	100.0	2.73E+03 98.4	906.0_H3_LSC	5.00E-03 L	06/23/2007 02:20			70 130	D

Monday, July 09, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\eddd\FeadI\Rad\W05174.Edd, h:\Reportdb\eddd\FeadI\Rad\35843.Edd

Lab Sample Id: JW5Q41JR

Sdg/Rept Nbr: W05174 35843

Collection Date: 05/14/2007 12:06

Client Id: B1N588

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 05/14/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
W07-005	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
7138317 DUP	BE-7 13966-02-4	1.74E+00 3.12E+00	pCi/L	2.7E+01 2.7E+01	U	4.91E+01			GAMMALL_GS	2.0051E+00 L	06/27/2007 14:22	56.9 20.0	0.1 3		D
7138317 DUP	CO-60 10198-40-0	8.80E-01 -1.28E-01	pCi/L	2.7E+00 2.7E+00	U	5.22E+00			GAMMALL_GS	2.0051E+00 L	06/27/2007 14:22	268.0 20.0	0.5 3		D
7138317 DUP	CS-134 13967-70-9	1.56E+00 -4.36E-01	pCi/L	2.7E+00 2.7E+00	U	5.08E+00			GAMMALL_GS	2.0051E+00 L	06/27/2007 14:22	355.8 20.0	1.1 3		D
7138317 DUP	CS-137 10045-97-3	-8.77E-01 -1.07E+00	pCi/L	2.3E+00 2.3E+00	U	3.92E+00			GAMMALL_GS	2.0051E+00 L	06/27/2007 14:22	0.0 20.0	0.1 3		D
7138317 DUP	EU-152 14683-23-9	-1.28E+00 1.77E+00	pCi/L	5.8E+00 5.8E+00	U	9.90E+00			GAMMALL_GS	2.0051E+00 L	06/27/2007 14:22	1226.6 20.0	0.7 3		D
7138317 DUP	EU-154 15585-10-1	-1.21E+00 -1.82E+00	pCi/L	6.4E+00 6.4E+00	U	1.17E+01			GAMMALL_GS	2.0051E+00 L	06/27/2007 14:22	0.0 20.0	0.1 3		D
7138317 DUP	EU-155 14391-16-3	-1.48E+00 1.30E+00	pCi/L	6.1E+00 6.1E+00	U	1.03E+01			GAMMALL_GS	2.0051E+00 L	06/27/2007 14:22	0.0 20.0	0.6 3		D
7138317 DUP	K-40 13966-00-2	-6.16E+01 -9.13E+00	pCi/L	6.4E+01 6.4E+01	U	1.39E+02			GAMMALL_GS	2.0051E+00 L	06/27/2007 14:22	0.0 20.0	1.2 3		D
7138317 DUP	RU-106 13967-48-1	-1.10E+01 1.11E+01	pCi/L	2.0E+01 2.0E+01	U	3.38E+01			GAMMALL_GS	2.0051E+00 L	06/27/2007 14:22	70063. 20.0	1.6 3		D
7138317 DUP	SB-125 14234-35-6	-2.06E+00 5.05E-01	pCi/L	5.9E+00 5.9E+00	U	1.02E+01			GAMMALL_GS	2.0051E+00 L	06/27/2007 14:22	0.0 20.0	0.6 3		D

Monday, July 09, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\Rad\W05174.Edd, h:\Reportdb\edd\Fead\Rad\35843.Edd

Lab Sample Id: JW5Q41KR

Sdg/Rept Nbr: W05174 35843

Collection Date: 05/14/2007 12:06

Client Id: B1N588

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 05/14/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
W07-005	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
7138318	NI-63	3.69E+00	pCi/L	2.6E+00		3.49E+00	96.3		NI63_LSC	3.984E-01	06/26/2007	62.7	0.9		D
DUP	13981-37-8	1.93E+00		1.5E+00						L	04:24	20.0	3		

Monday, July 09, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\Rad\W05174.Edd, h:\Reportdb\edd\Fead\Rad\35843.Edd

Lab Sample Id: JWK1T1FR

Sdg/Rept Nbr: W05174

35843

Collection Date: 05/08/2007 10:45

Client Id: B1N561

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 05/08/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
W07-005	MW6-SBB-A19981								CB	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7138316 DUP	BE-7 13966-02-4	-1.09E+01 -2.22E+01	pCi/L	1.9E+01 1.9E+01	U	3.23E+01			GAMMA_GS	2.4993E+00 L	06/27/2007 16:25	0.0 20.0	0.9 3		D
7138316 DUP	CO-60 10198-40-0	-4.72E-01 1.81E+00	pCi/L	1.2E+00 1.2E+00	U	2.36E+00			GAMMA_GS	2.4993E+00 L	06/27/2007 16:25	341.2 20.0	2.6 3		D
7138316 DUP	CS-134 13967-70-9	7.96E-01 9.53E-01	pCi/L	1.8E+00 1.8E+00	U	3.67E+00			GAMMA_GS	2.4993E+00 L	06/27/2007 16:25	18.0 20.0	0.1 3		D
7138316 DUP	CS-137 10045-97-3	3.21E-01 6.72E-01	pCi/L	2.0E+00 2.0E+00	U	3.68E+00			GAMMA_GS	2.4993E+00 L	06/27/2007 16:25	70.7 20.0	0.3 3		D
7138316 DUP	EU-152 14683-23-9	8.31E-01 -2.23E+00	pCi/L	4.1E+00 4.1E+00	U	7.61E+00			GAMMA_GS	2.4993E+00 L	06/27/2007 16:25	0.0 20.0	1. 3		D
7138316 DUP	EU-154 15585-10-1	1.26E+00 -2.82E+00	pCi/L	5.0E+00 5.0E+00	U	1.05E+01			GAMMA_GS	2.4993E+00 L	06/27/2007 16:25	0.0 20.0	1.1 3		D
7138316 DUP	EU-155 14391-16-3	-2.61E+00 -1.28E+00	pCi/L	3.1E+00 3.1E+00	U	4.96E+00			GAMMA_GS	2.4993E+00 L	06/27/2007 16:25	0.0 20.0	0.6 3		D
7138316 DUP	K-40 13966-00-2	7.08E+00 -1.50E+00	pCi/L	2.3E+01 2.3E+01	U	4.95E+01			GAMMA_GS	2.4993E+00 L	06/27/2007 16:25	307.9 20.0	0.5 3		D
7138316 DUP	RU-106 13967-48-1	1.52E-01 1.38E+00	pCi/L	1.5E+01 1.5E+01	U	2.77E+01			GAMMA_GS	2.4993E+00 L	06/27/2007 16:25	160.4 20.0	0.1 3		D
7138316 DUP	SB-125 14234-35-6	3.28E+00 2.30E+00	pCi/L	3.6E+00 3.6E+00	U	7.44E+00			GAMMA_GS	2.4993E+00 L	06/27/2007 16:25	35.1 20.0	0.4 3		D

Monday, July 09, 2007

STL Richland QC Duplicate Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05174.Edd, h:\Reportdb\edd\FeadIV\Rad\35843.Edd

Lab Sample Id: JWK1T2ER

Sdg/Rept Nbr: W05174 35843

Collection Date: 05/08/2007 10:45

Client Id: B1N561

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 05/08/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
W07-005	MW6-SBB-A19981								CC	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7138314 DUP	BETA 12587-47-2	9.97E+02 1.17E+03	pCi/L	1.3E+02 1.8E+01		5.81E+00	100.0		9310_ALPHAB	6.51E-02 L	06/27/2007 16:29	16.1 20.0	1.9 3		D

Monday, July 09, 2007

STL Richland QC Duplicate Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05174.Edd, h:\Reportdb\edd\FeadIV\Rad\35843.Edd

Lab Sample Id: JWMM91DR

Sdg/Rept Nbr: W05174

35843

Collection Date: 05/09/2007 10:44

Client Id: B1N578

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 05/09/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
W07-005	MW6-SBB-A19981								CD	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7138319	H-3	7.71E+03	pCi/L	4.5E+02		3.00E+02	100.0		906.0_H3_LSC	5.00E-03	06/22/2007	3.9	0.9		D
DUP	10028-17-8	7.42E+03		3.1E+02						L	18:09	20.0	3		

Monday, July 09, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05174.Edd, h:\Reportdb\edd\FeadIV\Rad\35843.Edd

Lab Sample Id: JWQKM2CR

Sdg/Rept Nbr: W05174 35843

Collection Date: 05/09/2007 09:54

Client Id: B1N5H4

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 05/09/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
W07-005	MW6-SBB-A19981								CE	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7176518 DUP	TC-99 14133-76-7	8.43E+02 8.49E+02	pCi/L	5.6E+01 1.6E+01		9.73E+00	100.0		TC99_ETVDSK	1.256E-01 L	06/27/2007 02:46	.8 20.0	0.2 3		D

Monday, July 09, 2007

STL Richland QC Duplicate Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05174.Edd, h:\Reportdb\edd\FeadIV\Rad\35843.Edd

Lab Sample Id: JWQL31ER

Sdg/Rept Nbr: W05174 35843

Collection Date: 05/09/2007 09:27

Client Id: B1MK04

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 05/09/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
W07-003	MW6-SBB-A19981								CG	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7138313 DUP	ALPHA 12587-46-1	9.46E-01 1.39E+00	pCi/L	9.0E-01 8.8E-01	U	1.18E+00	100.0		9310_ALPHAB	1.988E-01 L	06/27/2007 10:09	37.7 20.0	0.7 3		D

Monday, July 09, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\eddd\Fead\Rad\W05174.Edd, h:\Reportdb\eddd\Fead\Rad\35843.Edd

Lab Sample Id: JWQPR1ER

Sdg/Rept Nbr: W05174 35843

Collection Date: 05/09/2007 12:29

Client Id: B1N5C0

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 05/09/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
W07-005	MW6-SBB-A19981								CH	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7138315 DUP	I-129L 15046-84-1	5.32E-02 6.21E-02	pCi/L	1.5E-01 1.5E-01	U	2.93E-01	94.3		I129LL_SEP_L	3.9966E+00 L	06/27/2007 15:20	15.5 20.0	0.1 3		D

Monday, July 09, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05174.Edd, h:\Reportdb\edd\FeadIV\Rad\35843.Edd

Lab Sample Id: JWQKP2CW

Sdg/Rept Nbr: W05174 35843

Collection Date: 05/09/2007 11:26

Client Id: B1N5H9

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: MS

Received Date: 05/09/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
W07-005	MW6-SBB-A19981								CF	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7176518 MS	TC-99 14133-76-7	3.38E+03	pCi/L	2.1E+02 3.1E+01		9.63E+00	100.0	3.56E+03 94.9	TC99_ETVDSK	1.269E-01 L	06/27/2007 02:46			60 140	D

Lot No., Due Date: J7E170139,J7E090265,J7E110121; 06/28/2007
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 7138313; RALPHA-A Alpha by GPC-Am
 SDG, Matrix: W05174; WATER

1.0 COC

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

2.0 QC Batch

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

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

2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc? Yes No N/A

2.4 Does the Worksheets include a Tracer Vial label for each sample? Yes No N/A

3.0 QC & Samples

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

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

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

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

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

4.0 Raw Data

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

4.2 Were analysis volumes entered correctly? Yes No N/A

4.3 Were Yields entered correctly? Yes No N/A

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

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

5.0 Other

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

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

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

5.4 Was transcription checked? Yes No N/A

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

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

6.0 Comments on any No response:

First Level Review John Hoster

Date 6-27-7



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7138313

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: Erika Jorde Date: 06/27/17

Lot No., Due Date: J7E170139,J7E090265,J7E110121; 06/28/2007
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 7138314; RBETA-SR Beta by GPC-Sr/Y
 SDG, Matrix: W05174; WATER

8.0	Correction Calculation Protocol Used. OK	Yes	No	N/A
8.01	The Appropriate Methods Were Used To Analyze the Samples OK	Yes	No	N/A
8.02	Final Results Are in the Appropriate Activity Units OK	Yes	No	N/A
8.03	Batch Contains the Required QC Appropriate for the Method OK	Yes	No	N/A
8.04	The Correct Tracer and QC Vials Where Used in the Samples OK	Yes	No	N/A
8.05	Sample was Appropriately Traced Before or After Fractionating the Sample OK	Yes	No	N/A
8.06	At Least the Minimum Sample Volume Was Used Analysis Volume => JWK1T1AC 64.00<200.00 JW5Q41AD 155.70<200.00 JWK1T2AC 64.00<200.00 Q:VB	Yes	No	N/A
8.07	The Correct Count Geometry was Used. OK	Yes	No	N/A
8.08	The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	Yes	No	N/A
8.09	Method Blank is within Control Limits. OK	Yes	No	N/A
8.1	Comments:			
8.11	Matrix Blank is within Control Limits. No Matrix Blanks (MBIks) found in Batch!	Yes	No	N/A
8.12	Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	Yes	No	N/A
8.13	QAS Specified Duplicate Equation Value within Control Limits. RPD > UCL : 20.0=> JWK1T1AE BETA 64.0 (RPD)	Yes	No	N/A
8.14	LCS within Control Limits. OK	Yes	No	N/A
8.15	MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!	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. OK	Yes	No	N/A
8.18	Samples are above Minimum Tracer Yield (No Failed Samples) OK	Yes	No	N/A
8.19	Sample Specific MDC <= CRDL. MDC/MDA > CRDL => JWK1T2AC BETA 6.1E+00>4.0E+00 JWK1T2AE BETA 5.8E+00>4.0E+00 Q:C1	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. Batch Positive Result => JWK1T1AC BETA 1.1E+03 L:6.1E+00 JWQL31AC BETA 1.0E+01 L:2.8E+00 JW5Q41AD BETA 4.3E+02 L:3.6E+00 JWK1T2AC BETA 1.2E+03 L:6.1E+00	Yes	No	N/A
8.23	Result <= Action Level, when Defined. OK; No Action Level Found => BETA OK; No Callin Level Found => BETA	Yes	No	N/A

*Recount OK
LWA 6/28/07*

8.24	Result + 3s ≥ 0 , Not Too Negative. OK	Yes <input checked="" type="checkbox"/>	No	N/A
8.25	Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!	Yes	No	N/A <input checked="" type="checkbox"/>
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 <input checked="" type="checkbox"/>
8.28	Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8.29	Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8.3	Comments:			
8.31	Results Blank Subtracted as Appropriate. OK	Yes <input checked="" type="checkbox"/>	No	N/A

NCM 10-10246

First Level Review *[Signature]* Date 6/28/07



STL

Data Review Checklist RADIOCHEMISTRY Second Level Review

QC Batch Number: 7138314

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

Comments on any "No" response: See Num

Second Level Review: Erin Jordan Date: 4/28/17

Clouseau Nonconformance Memo

STL

NCM #: 10-10246	Classification: Anomaly
NCM Initiated By: Lisa Antonson	Status: GLREVIEW
Date Opened: 06/28/2007	Production Area: Environmental - Prep
Date Closed:	Tests: Beta by GPC-Sr/Y
Nonconformance: Other (describe in detail)	Lot #'s (Sample #'s): J7E090265 (4), J7E110121 (1), J7E170139 (3), J7E180000 (314),
Subcategory: Other (explanation required)	QC Batches: 7138314,

Problem Description / Root Cause

<u>Name</u>	<u>Date</u>	<u>Description</u>
Lisa Antonson	06/28/2007	In this beta batch, the dups were out of limits. They were recounted and now are within limits. The sample and dup also do not meet CRDL but have results that exceed the MDA achieved.

Corrective Action

<u>Name</u>	<u>Date</u>	<u>Corrective Action</u>
Lisa Antonson	06/28/2007	The samples were recounted.

Client Notification Summary

<u>Client</u>	<u>Project Manager</u>	<u>Notified</u>	<u>Response</u>	<u>How Notified</u>	<u>Note</u>
	<u>Response</u>	<u>Response Note</u>			

Quality Assurance Verification

<u>Verified By</u>	<u>Due Date</u>	<u>Status</u>	<u>Notes</u>
		This section not yet completed by QA.	

Approval History

<u>Date Approved</u>	<u>Approved By</u>	<u>Position</u>

Lot No., Due Date: J7E170139; 06/28/2007
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 7138317; RGAMMA Gamma by GER
 SDG, Matrix: W05174; WATER

1.0 COC

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

2.0 QC Batch

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

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

2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc? Yes No N/A

2.4 Does the Worksheets include a Tracer Vial label for each sample? Yes No N/A

3.0 QC & Samples

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

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

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

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

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

4.0 Raw Data

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

4.2 Were analysis volumes entered correctly? Yes No N/A

4.3 Were Yields entered correctly? Yes No N/A

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

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

5.0 Other

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

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

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

5.4 Was transcription checked? Yes No N/A

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

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

6.0 Comments on any No response:

First Level Review

Robe Quinlan

Date

6/28/07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7138317

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: Ericha Jorele

Date: 10/28/17

Lot No., Due Date: J7E090265; 06/28/2007
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 7138316; RGAMMA Gamma by GER
 SDG, Matrix: W05174; WATER

1.0 COC		
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	Yes	No N/A
2.0 QC Batch		
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	Yes	No N/A
2.2 Are the QC appropriate for the analysis included in the batch?	Yes	No N/A
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	Yes	No N/A
2.4 Does the Worksheets include a Tracer Vial label for each sample?	Yes	No N/A
3.0 QC & Samples		
3.1 Is the blank results, yield, and MDA within contract limits?	Yes	No N/A
3.2 Is the LCS result, yield, and MDA within contract limits?	Yes	No N/A
3.3 Are the MS/MSD results, yields, and MDA within contract limits?	Yes	No N/A
3.4 Are the duplicate result, yields, and MDAs within contract limits?	Yes	No N/A
3.5 Are the sample yields and MDAs within contract limits?	Yes	No N/A
4.0 Raw Data		
4.1 Were results calculated in the correct units?	Yes	No N/A
4.2 Were analysis volumes entered correctly?	Yes	No N/A
4.3 Were Yields entered correctly?	Yes	No N/A
4.4 Were spectra reviewed/meet contractual requirements?	Yes	No N/A
4.5 Were raw counts reviewed for anomalies?	Yes	No N/A
5.0 Other		
5.1 Are all nonconformances included and noted?	Yes	No N/A
5.2 Are all required forms filled out?	Yes	No N/A
5.3 Was the correct methodology used?	Yes	No N/A
5.4 Was transcription checked?	Yes	No N/A
5.5 Were all calculations checked at a minimum frequency?	Yes	No N/A
5.6 Are worksheet entries complete and correct?	Yes	No N/A
6.0 Comments on any No response: NCM 10-10247		

First Level Review

Loa Antonson

Date

6/28/07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7138310

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?	✓	✓	2/2/28/17
C. Other			
1. Are all Nonconformances included and noted?	✓		
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: See NCR

Second Level Review: Erika Ford Date: 10/28/17

Clouseau Nonconformance Memo

STL

NCM #: 10-10247	Classification: Anomaly
NCM Initiated By: Lisa Antonson	Status: GLREVIEW
Date Opened: 06/28/2007	Production Area: Environmental - Prep
Date Closed:	Tests: Gamma by GER
	Lot #'s (Sample #'s): J7E090265 (4), J7E180000 (316),
	QC Batches: 7138316,
Nonconformance: Other (describe in detail)	
Subcategory: Other (explanation required)	

Problem Description / Root Cause

<u>Name</u>	<u>Date</u>	<u>Description</u>
Lisa Antonson	06/28/2007	In this Gamma batch, there was not enough sample for a dup so the sample was recounted on a different detector.

Corrective Action

<u>Name</u>	<u>Date</u>	<u>Corrective Action</u>
Lisa Antonson	06/28/2007	NA

Client Notification Summary

<u>Client</u>	<u>Project Manager</u>	<u>Notified</u>	<u>Response</u>	<u>How Notified</u>	<u>Note</u>
	<u>Response</u>	<u>Response Note</u>			

Quality Assurance Verification

<u>Verified By</u>	<u>Due Date</u>	<u>Status</u>	<u>Notes</u>
			This section not yet completed by QA.

Approval History

<u>Date Approved</u>	<u>Approved By</u>	<u>Position</u>

Lot No., Due Date: J7E170139,J7E110131,J7E110128; 06/28/2007
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 7138315; RGAMLEPS Gamma by LEPS
 SDG, Matrix: W05174; WATER

1.0 COC

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

2.0 QC Batch

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

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

2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc? Yes No N/A

2.4 Does the Worksheets include a Tracer Vial label for each sample? Yes No N/A

3.0 QC & Samples

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

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

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

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

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

4.0 Raw Data

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

4.2 Were analysis volumes entered correctly? Yes No N/A

4.3 Were Yields entered correctly? Yes No N/A

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

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

5.0 Other

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

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

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

5.4 Was transcription checked? Yes No N/A

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

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

6.0 Comments on any No response:

First Level Review *Ben Antonson*

Date 6/28/07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7138315

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: *Ernie Job* Date: 6/28/15

Lot No., Due Date: J7E170139,J7E090265,J7E100139,J7E110117,J7E110121,J7E110131,J7E110128; 06/28/2007
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 7176518; RTC99 Tc-99 by LSC
 SDG, Matrix: W05174; WATER

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

6.0 Comments on any No response:
Please see NCM#10-10245

First Level Review *Joh. Norton* Date 6-28-7



STL

Data Review Checklist RADIOCHEMISTRY Second Level Review

QC Batch Number: 7176518

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

Comments on any "No" response: See num

Second Level Review: Eihe Judo Date: 6/28/17

Clouseau Nonconformance Memo

STL

NCM #: 10-10245	Classification: Anomaly
NCM Initiated By: John Norton	Status: GLREVIEW
Date Opened: 06/28/2007	Production Area: Environmental - Nona
Date Closed:	Tests: Tc-99 by LSC
	Lot #'s (Sample #'s): J7E090265 (1,2), J7E100139 (1,2,3), J7E110117 (1,2,3), J7E110121 (1), J7E110128 (1,2), J7E110131 (1,2,3), J7E170139 (1,2,3), J7E180000 (308),
	QC Batches: 7176518,
Nonconformance: Other (describe in detail)	
Subcategory: Other (explanation required)	

Problem Description / Root Cause

<u>Name</u>	<u>Date</u>	<u>Description</u>
John Norton	06/28/2007	The TSIE was outside of acceptable limits, therefore the activity of the samples could not be calculated.

Corrective Action

<u>Name</u>	<u>Date</u>	<u>Corrective Action</u>
John Norton	06/28/2007	the samples were agitated, and submitted for counting a second time, the TSIE is no longer outside of acceptable limits.

Client Notification Summary

<u>Client</u>	<u>Project Manager</u>	<u>Notified</u>	<u>Response</u>	<u>How Notified</u>	<u>Note</u>
	<u>Response</u>	<u>Response Note</u>			

Quality Assurance Verification

<u>Verified By</u>	<u>Due Date</u>	<u>Status</u>	<u>Notes</u>
		This section not yet completed by QA.	

Approval History

<u>Date Approved</u>	<u>Approved By</u>	<u>Position</u>
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Lot No., Due Date: J7E170139,J7E090265,J7E100139,J7E110131; 06/28/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7138319; RTRITIUM H-3 by LSC

SDG, Matrix: W05174; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.02 Final Results Are in the Appropriate Activity Units OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.03 Batch Contains the Required QC Appropriate for the Method OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.06 At Least the Minimum Sample Volume Was Used Analysis Volume => JWK1F1AA 5.00<10.00 JWK1H1AA 5.00<10.00 JWK1L1AA 5.00<10.00 JWMM91AA 5.00<10.00 JWMND1AA 5.00<10.00 JWQPR1AA 5.00<10.00 JWQP21AA 5.00<10.00 JWQQF1AA 5.00<10.00 JW5K91AA 5.00<10.00 JW5P11AA 5.00<10.00 JW5Q41AA 5.00<10.00 Q:VB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.07 The Correct Count Geometry was Used. Count Geometry => JW9FG1AF SVP15/5<->SVP10/10 JW9FG1AG SVP15/5<->SVP10/10 JW9FG1AA SVP15/5<->SVP10/10 JW9FG1AC SVP15/5<->SVP10/10 JWK1F1AA SVP15/5<->SVP10/10 JWK1H1AA SVP15/5<->SVP10/10 JWK1L1AA SVP15/5<->SVP10/10 JWMM91AA SVP15/5<->SVP10/10 JWMM91AD SVP15/5<->SVP10/10 JWMND1AA SVP15/5<->SVP10/10 JWQPR1AA SVP15/5<->SVP10/10 JWQP21AA SVP15/5<->SVP10/10 JW9FG1AH SVP15/5<->SVP10/10 JW9FG1AD SVP15/5<->SVP10/10 JW9FG1AE SVP15/5<->SVP10/10 JWQQF1AA SVP15/5<->SVP10/10 JW5K91AA SVP15/5<->SVP10/10 JW5P11AA SVP15/5<->SVP10/10 JW5Q41AA SVP15/5<->SVP10/10 Q:VC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.09 Method Blank is within Control Limits. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.14 LCS within Control Limits. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.15 MLCS within Control Limits. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

OK AL 6/25/07

OK AL 6/25/07

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 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8.3 Comments:			
8.31 Results Blank Subtracted as Appropriate. OK	Yes	No	N/A

First Level Review

Angela Long

Date

6/25/07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7138319
W05174

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

Comments on any "No" response: _____

Second Level Review: Sheryl A Adams Date: 4-25-07

Lot No., Due Date: J7E170139; 06/28/2007
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 7138318; RNI63 Ni-63 by LSC
 SDG, Matrix: W05174; WATER

1.0 COC

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

2.0 QC Batch

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

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

2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc? Yes No N/A

2.4 Does the Worksheets include a Tracer Vial label for each sample? Yes No N/A

3.0 QC & Samples

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

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

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

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

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

4.0 Raw Data

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

4.2 Were analysis volumes entered correctly? Yes No N/A

4.3 Were Yields entered correctly? Yes No N/A

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

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

5.0 Other

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

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

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

5.4 Was transcription checked? Yes No N/A

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

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

6.0 Comments on any No response:

First Level Review

[Handwritten Signature]

Date

7/6/07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number:

7138318
W05174

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

Comments on any "No" response: _____

Second Level Review: Sheryl A. Adams Date: 7-9-07

Lot No., Due Date: J7E090275; 06/28/2007
 Client, Site: 384868; PGW 615HANFORD HANFORD
 QC Batch No., Method Test: 7138312;
 SDG, Matrix: W05174; WATER

1.0 COC

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

2.0 QC Batch

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

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

2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc? Yes No N/A

2.4 Does the Worksheets include a Tracer Vial label for each sample? Yes No N/A

3.0 QC & Samples

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

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

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

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

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

4.0 Raw Data

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

4.2 Were analysis volumes entered correctly? Yes No N/A

4.3 Were Yields entered correctly? Yes No N/A

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

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

5.0 Other

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

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

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

5.4 Was transcription checked? Yes No N/A

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

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

6.0 Comments on any No response:

First Level Review

[Handwritten Signature]

Date

6/12/07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

OC Batch Number: 7138312
W02174

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

Comments on any "No" response: _____

Second Level Review: Sheryl A. Adams Date: 6-12-07

PNNL J7E090265
W05174
Due 06-22-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
W07-005-306
Page 1 of 1

Collector Fluor Hanford D. E. PARCHEN	Contact/Requester Dot Stewart	Telephone No. 509-376-5056	MSIN	FAX
SAF No. W07-005	Sampling Origin Hanford Site	Purchase Order/Charge Code		
Project Title RCRA, MAY 2007	HNF-N-506 B	Ice Chest No. SKINS	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 <input checked="" type="checkbox"/> No <input type="checkbox"/> All Labs except WSCF: Batch all 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 GW samples submitted into one SDG, daily closure.
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Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N506		W	5-8-07	0847	1x20-mL P	Activity Scan	None
B1N506		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1N506		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
JWR/H							

Relinquished By Fluor Hanford D. E. PARCHEN	Print <i>D. E. PARCHEN</i>	Sign <i>D. E. PARCHEN</i>	Date/Time MAY 08 2007	1355	Received By <i>J. Smith</i>	Print <i>J. Smith</i>	Sign <i>J. Smith</i>	Date/Time 5/8/07	1355	Matrix * S = Soil DS = Drum Solid SE = Sediment DI = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By	Date/Time	Received By	Date/Time		Relinquished By	Date/Time	Received By	Date/Time		
Relinquished By	Date/Time	Received By	Date/Time		Relinquished By	Date/Time	Received By	Date/Time		
Relinquished By	Date/Time	Received By	Date/Time		Relinquished By	Date/Time	Received By	Date/Time		
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By	Date/Time					



STL

Sample Check-in List

Date/Time Received: 05-08-07 1355

Client: PGW SDG #: W05174 NA SAF #: W07-005 NA

Work Order Number: J7E090265 Chain of Custody # W07-005-307, 306, 372, 358

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 _____ hazard labels
 - _____ custody seals _____ appropriate samples labels
9. Samples are:
 - _____ in good condition _____ leaking
 - _____ broken _____ 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: J. Smith Date: 05-08-07 1355

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

No action necessary; process as is.

Project Manager _____ Date _____

Collector Fluor Hanford R. T. SICKLE	Contact/Requester Dot Stewart	Telephone No. MSIN FAX 509-376-5056
SAF No. W07-005	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA, MAY 2007	Logbook: HNF-N-506-6	Ice Chest No. GRP-03-027 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 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 GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N5P5		W	5/9/07	0833	1x20-mL P	Activity Scan	None
B1N5P5		W	↓	↓	1x500-mL P	9223_COLIFORM: Coliform (1)	Na2S2O3 Cool 4C
<i>JWR2L</i>							
<i>R. W. Wood 5/9/07</i>							

Relinquished By Fluor Hanford R. T. SICKLE	Print	Sign	Date/Time MAY 09 2007 11:30	Received By <i>S. Smith</i>	Print	Sign	Date/Time MAY 09 2007 11:30	Matrix * S = Soil DS = Drum Solid SF = Sediment DI = Drum Lining SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By			Date/Time	Received By			Date/Time	
Relinquished By			Date/Time	Received By			Date/Time	
Relinquished By			Date/Time	Received By			Date/Time	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)						Disposed By	Date/Time



STL

Sample Check-in List

Date/Time Received: 05-09-07 11:30

Client: FBW SDG #: W05174 NA SAF #: W07-005 NA

Work Order Number: J7E090275 Chain of Custody # W07-005-566

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA Yes No
2. Custody Seals dated and signed? NA Yes No
3. Chain of Custody record present? Yes No
4. Cooler temperature: _____ NA 5. Vermiculite/packing materials is NA Wet Dry
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA Yes No
8. Samples have:
 _____ tape _____ hazard labels
 _____ custody seals appropriate samples labels
9. Samples are:
 _____ in good condition _____ leaking
 _____ broken _____ 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: J. Smith Date: 05-09-07 11:30

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

No action necessary; process as is.

Project Manager _____ Date _____

PNNL *J7E100139*
W05174
Due 06-22-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-005-266**
 Page 1 of 1

Collector ORATEK <i>K.J. YOUNG</i>	Contact/Requester Dot Stewart	Telephone No. MSIN FAX 509-376-5056
SAF No. W07-005	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA, MAY 2007	<i>HNF-N-506 B</i>	Ice Chest No. <i>SKINS</i> 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 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 GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N578		W	<i>5-9-07</i>	<i>1044</i>	1x20-mL P	Activity Scan	None
B1N578		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1N578		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						<i>JWmmg</i>	

Relinquished By ORATEK <i>K.J. YOUNG</i> <i>Healey</i>	Print	Sign	Date/Time <i>1457</i> MAY 09 2007	Received By <i>S. Smith</i>	Print	Sign	Date/Time <i>1457</i> MAY 09 2007	
Relinquished By	Date/Time	Received By	Date/Time	Matrix *				
Relinquished By	Date/Time	Received By	Date/Time	S = Soil	DS = Drum Solid			
Relinquished By	Date/Time	Received By	Date/Time	SE = Sediment	DI = Drum Liquid			
Relinquished By	Date/Time	Received By	Date/Time	SO = Solid	T = Tissue			
Relinquished By	Date/Time	Received By	Date/Time	SI = Sludge	WI = Wine			
Relinquished By	Date/Time	Received By	Date/Time	W = Water	L = Liquid			
Relinquished By	Date/Time	Received By	Date/Time	O = Oil	V = Vegetation			
Relinquished By	Date/Time	Received By	Date/Time	A = Air	X = Other			
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By		Date/Time		

Sample Check-in List

Date/Time Received: 05-10-07 1457

Client: P6W SDG #: W05174 NA SAF #: W07-005 NA

Work Order Number: J7E100134 Chain of Custody # W07-005-266,267,526

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA Yes No
2. Custody Seals dated and signed? NA Yes No
3. Chain of Custody record present? Yes No
4. Cooler temperature: _____ NA 5. Vermiculite/packing materials is NA Wet Dry
6. Number of samples in shipping container: 3
7. Sample holding times exceeded? NA Yes No
8. Samples have:
 _____ tape _____ hazard labels
 _____ custody seals _____ appropriate samples labels
9. Samples are:
 _____ in good condition _____ leaking
 _____ broken _____ 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: S. Smith Date: 05-09-07 1457

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

No action necessary; process as is.

Project Manager _____ Date _____

PNNL J7E110117
W05174
Rec 06-22-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.#
W07-005-470
Page 1 of 1

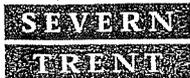
Collector K.B. HULSE	Contact/Requester Dot Stewart	Telephone No. MSIN FAX 509-376-5056
SAF No. W07-005	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA, MAY 2007	HNF-N-506 7	Ice Chest No. SML 595 Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. 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 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 GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N5H4		W	5-9-07	0934	1x20-mL P	Activity Scan	None
B1N5H4		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
<i>JWQRM</i>							

Relinquished By K.B. HULSE <i>K.B. Hulse</i>	Date/Time MAY 09 2007	Received By <i>S. Smith</i>	Date/Time MAY 09 2007	Matrix *
Relinquished By	Date/Time	Received By	Date/Time	S = Soil DS = Drum Solid SF = Sediment DI = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)		Disposed By	Date/Time



STL

Sample Check-in List

Date/Time Received: 05-09-07 1457

Client: P6W SDG #: W05174 NA SAF #: W07-005 NA

Work Order Number: J7E110117 Chain of Custody # W07-005-470, 478, 486

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA Yes No
2. Custody Seals dated and signed? NA Yes No
3. Chain of Custody record present? Yes No
4. Cooler temperature: _____ NA 5. Vermiculite/packing materials is NA Wet Dry
6. Number of samples in shipping container: 3
7. Sample holding times exceeded? NA Yes No
8. Samples have:
 _____ tape _____ hazard labels
 _____ custody seals appropriate samples labels
9. Samples are:
 in good condition _____ leaking
 _____ broken _____ 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: S. Smith Date: 05-10-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

No action necessary; process as is.

Project Manager _____ Date _____

Collector Fluor Hanford R. T. SICKLE	Contact/Requester Dot Stewart	Telephone No. MSIN FAX 509-376-5056
SAF No. W07-003	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA, MARCH 2007	Logbook: <i>HNF-N-506-6</i>	Ice Chest No. <i>GRP-03-027</i> 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
B1MK04		W	<i>5/9/07</i>	<i>0927</i>	1x20-mL P	Activity Scan	None
B1MK04		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1MK04		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
<i>JWQL3</i>							
<i>R. Wall</i> <i>5/9/07</i>							

Relinquished By Fluor Hanford R. T. SICKLE	Print	Sign	Date/Time <i>1457</i> MAY 09 2007	Received By <i>A. Smith</i> S. Smith	Print	Sign	Date/Time <i>1457</i> MAY 09 2007	Matrix *
Relinquished By	Date/Time	Received By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time	S = Soil DS = Drum Solid SE = Sediment DI = Drum Liquid SO = Solid T = Tissue SI = Sludge WI = Wine W = Water Y = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By	Date/Time	Received By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)						Disposed By	Date/Time



STL

Sample Check-in List

Date/Time Received: 05-09-07 1457

Client: P6W SDG #: W05174 NA SAF #: W07-003 NA

Work Order Number: J7E110121 Chain of Custody # W07-003-132

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: 1
7. Sample holding times exceeded? NA Yes No
8. Samples have:
 - _____ tape _____ hazard labels
 - _____ custody seals appropriate samples labels
9. Samples are:
 - in good condition _____ leaking
 - _____ broken _____ 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: S. Smith Date: 05-09-07 1457

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

No action necessary; process as is.

Project Manager _____ Date _____

PNNL *R.W. 5/9/07* *J7E110138 W05174 Due 06.22.07* C.O.C. # **I07-044-22**

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Page 1 of 1

Collector L.D. WALL	Fluor Hanford R. T. SICKLE	Contact/Requester Dot Stewart	Telephone No. MSIN FAX 509-376-5056
SAF No. I07-044	Sampling Origin Hanford Site	Purchase Order/Charge Code	
Project Title 2ZP1-LOI MAY 2007	<i>Logbook: HNF-N-506-6</i>	Ice Chest No. <i>GRP-03-029</i> 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> All Labs except WSCF: Batch all 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 GW samples submitted into one SDG, daily closure.
--	--

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N2W2		W	<i>5/9/07</i>	<i>1131</i>	1x20-mL P	Activity Scan	None
B1N2W2		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1N2W2		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
<i>JWQPL</i>							
<i>R. Wall 5/9/07</i>							

Relinquished By R. T. SICKLE	Print	Sign	Date/Time <i>1457</i> MAY 09 2007	Received By <i>[Signature]</i>	Print	Sign	Date/Time <i>1457</i> MAY 09 2007		
Relinquished By	Date/Time	Received By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time	Matrix * S = Soil DS = Drum Solid SE = Sediment DI = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other	
Relinquished By	Date/Time	Received By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time		
Relinquished By	Date/Time	Received By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time		
Relinquished By	Date/Time	Received By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time		
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)						Disposed By		Date/Time



STL

Sample Check-in List

Date/Time Received: 05-09-07 1457

Client: POW SDG #: W05174 NA [] SAF #: I07-044 NA []

Work Order Number: J7E110128 Chain of Custody # I07-044-22,114

Shipping Container ID: _____ Air Bill # _____

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

Sample Custodian: S. Smith Date: 05-09-07 1457

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____

PNNL J7E110131
W05174
Nov 06 '22-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
W07-005-414
Page 1 of 1

Collector Fluor Hanford R. T. SICKLE	Contact/Requester Dot Stewart	Telephone No. 509-376-5056	MSIN	FAX
SAF No. W07-005	Sampling Origin Hanford Site	Purchase Order/Charge Code		
Project Title RCRA, MAY 2007	Logbook: HNF-N-506-6	Ice Chest No. GRP-03-027	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 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 GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N5C0		W	5/9/07	1229	1x20-mL P	Activity Scan	None
B1N5C0		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1N5C0		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1N5C0		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
<i>JWQPR</i>							
<i>R. Wall 5/9/07</i>							

Relinquished By Fluor Hanford R. T. SICKLE	Print	Sign	Date/Time MAY 09 2007	Received By <i>S. Smith</i>	Print	Sign	Date/Time MAY 09 2007	
Relinquished By	Date/Time	Received By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time	Matrix * S = Soil DS = Drum Solid SE = Sediment DI = Drum Liquid SO = Solid T = Tissue SI = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By	Date/Time	Received By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By			Date/Time	

Collector Fluor Hanford R. T. SICKLE	Contact/Requester Dot Stewart	Telephone No. MSIN FAX 509-376-5056
SAF No. W07-005	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA, MAY 2007	Logbook: HNF-N-506-6	Ice Chest No. GRP-03-027 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 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 GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N5C5		W	5/9/07	1036	1x20-mL P	Activity Scan	None
B1N5C5		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1N5C5		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1N5C5		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
<div style="position: absolute; top: 20px; left: 20px; font-size: 2em; opacity: 0.5;">JWAPZ</div> <div style="position: absolute; top: 40px; left: 20px; font-size: 1.5em; opacity: 0.5;">D. Wall 5/9/07</div>							

Relinquished By Fluor Hanford R. T. SICKLE	Print	Sign	Date/Time MAY 09 2007	Received By S. Smith	Print	Sign	Date/Time MAY 09 2007	Matrix *
Relinquished By	Date/Time	Received By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time	S = Soil DS = Drum Solid SE = Sediment DI = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By	Date/Time	Received By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)						Disposed By	Date/Time

PNNL *JTE110131*
W05174
Due 06-22-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-005-430**
 Page 1 of 1

Collector Fluor Hanford R. T. SICKLE	Contact/Requester Dot Stewart	Telephone No. MSIN FAX 509-376-5056
SAF No. W07-005	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA MAY 2007	<i>Logbook: HNF-N-506-6</i>	Ice Chest No. <i>GRP-03-027</i> 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 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 GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N5D0		W	<i>5/9/07</i>	<i>1323</i>	1x20-mL P	Activity Scan	None
B1N5D0		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1N5D0		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
<i>JWQQF</i>							
<i>d. wall</i> <i>5/9/07</i>							

Relinquished By Fluor Hanford R. T. SICKLE	Print	Sign	Date/Time <i>1457</i> MAY 09 2007	Received By <i>S. Smith</i>	Print	Sign	Date/Time <i>1457</i> MAY 09 2007	Matrix * S = Soil DS = Drum Solid SE = Sediment DI. = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L. = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By	Date/Time	Received By	Date/Time					
Relinquished By	Date/Time	Received By	Date/Time					
Relinquished By	Date/Time	Received By	Date/Time					
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By			Date/Time	



STL

Sample Check-in List

Date/Time Received: 05.09.07 1457

Client: Pbw SDG #: W05174 NA SAF #: W07-005 NA

Work Order Number: V9E110131 Chain of Custody # W07-005-414, 422, 430

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA Yes No
2. Custody Seals dated and signed? NA Yes No
3. Chain of Custody record present? Yes No
4. Cooler temperature: _____ NA 5. Vermiculite/packing materials is NA Wet Dry
6. Number of samples in shipping container: 3
7. Sample holding times exceeded? NA Yes No
8. Samples have:
 - _____ tape
 - _____ custody seals
 - _____ hazard labels
 - appropriate samples labels
9. Samples are:
 - in good condition
 - _____ broken
 - _____ leaking
 - _____ have air bubbles
 (Only for samples requiring head space)
10. Sample pH taken? NA pH<2 pH>2 pH>9
11. Sample Location, Sample Collector Listed? * 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: R. Smith Date: 05.09.07 1457

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____

PNNL J7E170139
W05174
Ave 06-2807

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
W07-005-290

Page 1 of 1

Collector L.D. WALL	Contact/Requester Dot Stewart	Telephone No. 509-376-5056	MSIN	FAX
SAF No. W07-005	Sampling Origin Hanford Site	Purchase Order/Charge Code		
Project Title RCRA, MAY 2007	<i>HNF-N-506-6</i>	Ice Chest No. <i>SINK 443</i>	Temp.	
Shipped To (Lab) Severn Trent Incorporated, Richland		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 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 GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N4Y7		W	<i>5-14-07</i>	<i>1046</i>	1x20-mL P	Activity Scan	None
B1N4Y7		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1N4Y7		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
<i>JW5K9</i>							

Relinquished By <i>L.D. WALL</i> <small>Print</small> <i>L.D. Wall</i> <small>Sign</small>	Date/Time <i>MAY 14 2007 1440</i>	Received By <i>S. Smith</i> <small>Print</small> <i>S. Smith</i> <small>Sign</small>	Date/Time <i>MAY 14 2007 1440</i>	Matrix * S = Soil DS = Drum Solid SE = Sediment DI = Drum Liquid SO = Solid T = Tissue SI = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)		Disposed By	Date/Time

PNNL <i>JTE170139</i> <i>W05174</i> <i>Due 06-28-07</i>	<h2 style="margin: 0;">CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</h2>	C.O.C. # <h3 style="margin: 0;">W07-005-258</h3>
		Page <u>1</u> of <u>1</u>

Collector L.D. WALL	Contact/Requester Dot Stewart	Telephone No. MSIN FAX 509-376-5056
SAF No. W07-005	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA, MAY 2007	<i>HNF-N-506-6</i>	Ice Chest No. <i>5 ML 447</i> 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> All Labs except WSCF: Batch all 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 GW samples submitted into one SDG, daily closure.
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Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N574		W	<i>5-14-07</i>	<i>1132</i>	1x20-mL P	Activity Scan	None
B1N574		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1N574		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
<i>JW5 P1</i>							

Relinquished By L.D. WALL <i>Rid Wall</i>	Date/Time MAY 14 2007 1440	Received By <i>S. Smith</i> S. Smith	Date/Time MAY 14 2007 1440	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
Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)		Disposed By	Date/Time

PNNL <i>J7E170139</i> <i>W05174</i> <i>Due 6-28-07</i>	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W07-005-378
		Page <u>1</u> of <u>1</u>

Collector L.D. WALL	Contact/Requester Dot Stewart	Telephone No. MSIN FAX 509-376-5056
SAF No. W07-005	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA MAY 2007	<i>HNF-N-506-6</i>	Ice Chest No. <i>SML 443</i> 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> All Labs except WSCF: Batch all 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 GW samples submitted into one SDG, daily closure.
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Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N588		W	<i>5-14-07</i>	<i>1206</i>	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1N588		W			1x20-mL P	Activity Scan	None
B1N588		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1N588		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1N588		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1N588		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1N588		W			1x1000-mL G/P	NI63_LSC: Nickel-63 (1)	HNO3 to pH <2
						<i>JW504</i>	

Relinquished By L.D. WALL <i>L.D. Wall</i>	Date/Time MAY 14 2007 <i>1440</i>	Received By <i>S. Smith</i> <i>S. Smith</i>	Date/Time MAY 14 2007 <i>1440</i>	Matrix * S = Soil DS = Drum Solid SF = Sediment DI = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time	



STL

Sample Check-in List

Date/Time Received: 5-14-07 1440

Client: P6W SDG #: W05174 NA [] SAF #: W07-005 NA []

Work Order Number: J7E170139 Chain of Custody # W07-005-290,258,378

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [] Yes No []
2. Custody Seals dated and signed? NA [] Yes No []
3. Chain of Custody record present? Yes No []
4. Cooler temperature: _____ NA 5. Vermiculite/packing materials is NA Wet [] Dry []
6. Number of samples in shipping container: 3
7. Sample holding times exceeded? NA Yes [] No []
8. Samples have:
 _____ tape _____ hazard labels
 _____ custody seals appropriate samples labels
9. Samples are:
 in good condition _____ leaking
 _____ broken _____ 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: S. Smith Date: 5-14-07 1440

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____

6/26/2007 4:17:48 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
SI CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/22/2007

Sep1 DT/Tm Tech:

Batch: 7138313 WATER pCi/L PM, Quote: SA, 57671
SEQ Batch, Test: None All Tests: 7138308 FPS5, 7138313 AZS7, 7138314 BCS8, 7138316 AWTA, 7138319 ARS6, 7176518 FPS5,

Sep2 DT/Tm Tech:

Prep Tech: BockJ,HARBINSOND

Work Order, Lot, Sample Date/Time	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 JWK1T-1-AA J7E090265-4-SAMP 05/08/2007 10:45	53.10g,in				37.2mg	200	10A	0928		6/27/07 m
AmtRec: 20ML,LP #Containers: 5 Scr: Alpha: 3.85E-04 uCi/Sa Beta: 3.62E-04 uCi/Sa										
2 JWQL3-1-AA J7E110121-1-SAMP 05/09/2007 09:27	198.50g,in				41.1mg	50	10A	1035		6/27/07 m
AmtRec: 20ML,500ML,LP #Containers: 3 Scr: Alpha: 1.67E-04 uCi/Sa Beta: -9.01E-05 uCi/Sa										
3 JWQL3-1-AE-X J7E110121-1-DUP 05/09/2007 09:27	198.80g,in				34.5mg	50	10B			
AmtRec: 20ML,500ML,LP #Containers: 3 Scr: Alpha: 1.67E-04 uCi/Sa Beta: -9.01E-05 uCi/Sa										
4 JW5Q4-1-AC J7E170139-3-SAMP 05/14/2007 12:06	137.10g,in				39.6mg	100	10A	1236		6/27/07 m
AmtRec: 20ML,500ML,3XLP,3X4LP #Containers: 8 Scr: Alpha: -1.39E-03 uCi/Sa Beta: 2.98E-03 uCi/Sa										
5 JW9EX-1-AA-B J7E180000-313-BLK 05/09/2007 09:27	200.00g,in				2.2mg	200	10B	0928		6/27/07 m
AmtRec: #Containers: 1 Scr: Alpha: Beta:										
6 JW9EX-1-AC-C J7E180000-313-LCS 05/09/2007 09:27	201.20g,in		ASD4219 06/11/07,pd 06/01/01,r		3.1mg	200	10C			
AmtRec: #Containers: 1 Scr: Alpha: Beta:										

DH 6/26/2007

6/26/2007 4:17:53 PM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 06/22/2007

Sep1 DT/Tm Tech: _____

Batch: 7138313
SEQ Batch, Test: None

pCi/L

Sep2 DT/Tm Tech: _____

Prep Tech: ,BockJ



Work Order, Lot, Sample Date/Time	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:
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Comments: JWK1T-SAMP "Comments. No DUP. poured due to insufficient sample amount. Please re-count on diff. detector. JB 6/19/07"

All Clients for Batch:

384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JWK1T1AA-SAMP Constituent List:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:	
JW9EX1AA-BLK:						
ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:	
JW9EX1AC-LCS:						
Am-241	RDL:	pCi/L	LCL:70	UCL:130	RPD:20	
JWK1T1AA-SAMP Calc Info:						
Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B	
JW9EX1AA-BLK:						
Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B	
JW9EX1AC-LCS:						
Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B	

Approved By _____ Date: _____

6/26/2007 4:24:01 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory
Pacific Northwest National LabBC Gross Beta PrpRC5014
S8 Gross Beta by GPC using Sr/Y-90 curve
SI CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/22/2007

Sep1 DT/Tm Tech:

Batch: 7138314 WATER pCi/L PM, Quote: SA, 57671
SEQ Batch, Test: None All Tests: 7138308 FPS5, 7138313 AZS7, 7138314 BCS8, 7138316 AWTA, 7138319 ARS6, 7176518 FPS5,

Sep2 DT/Tm Tech:

Prep Tech: BockJ

Work Order, Lot, Sample Date/Time	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 JWK1T-1-AC J7E090265-4-SAMP 05/08/2007 10:45	64.00g,in				95.1mg	200		27a	1102	6/27/07 r
AmtRec: 20ML,LP		#Containers: 5		Scr: Alpha: 3.85E-04 uCi/Sa		Beta: 3.62E-04 uCi/Sa				
2 JWK1T-1-AE-X J7E090265-4-DUP 05/08/2007 10:45	65.10g,in				81.6mg	200		27b		
AmtRec: 20ML,LP		#Containers: 5		Scr: Alpha: 3.85E-04 uCi/Sa		Beta: 3.62E-04 uCi/Sa				
3 JWQL3-1-AC J7E110121-1-SAMP 05/09/2007 09:27	201.20g,in				58.8mg	100	6/27/07 28A	28B	0921	6/27/07 r
AmtRec: 20ML,500ML,LP		#Containers: 3		Scr: Alpha: 1.67E-04 uCi/Sa		Beta: -9.01E-05 uCi/Sa				
4 JW5Q4-1-AD J7E170139-3-SAMP 05/14/2007 12:06	155.70g,in				84.2mg	100	6/27/07 28B	28c		
AmtRec: 20ML,500ML,3XLP,3X4LP		#Containers: 8		Scr: Alpha: -1.39E-03 uCi/Sa		Beta: 2.98E-03 uCi/Sa				
5 JW9E1-1-AA-B J7E180000-314-BLK 05/08/2007 10:45	200.20g,in				0.1mg	200		27c	1102	6/27/07 r
AmtRec:		#Containers: 1		Scr: Alpha:		Beta:				
6 JW9E1-1-AC-C J7E180000-314-LCS 05/08/2007 10:45	199.00g,in		BESB3072 06/13/07,pd 08/08/06,r		0.9mg	200		27d		
AmtRec:		#Containers: 1		Scr: Alpha:		Beta:				

6/26/2007 4:24:06 PM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 06/22/2007

Sep1 DT/Tm Tech: _____

Batch: 7138314

pCi/L

Sep2 DT/Tm Tech: _____

SEQ Batch, Test: None

Prep Tech: ,BockJ



Work Order, Lot, Sample Date/Time	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:
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Comments: JWK1T-SAMP "Comments. No DUP. poured due to insufficient sample amount. Please re-count on diff. detector. JB 6/19/07"

DH 6/26/2007

All Clients for Batch:

384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JWK1T1AC-SAMP Constituent List:

BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
JW9E11AA-BLK:					
BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
JW9E11AC-LCS:					
Sr-90	RDL:	pCi/L	LCL:70	UCL:130	RPD:20
JWK1T1AC-SAMP Calc Info:					
Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
JW9E11AA-BLK:					
Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
JW9E11AC-LCS:					
Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

Approved By _____ Date: _____

6/27/2007 1:58:23 PM

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: 06/22/2007

Sep1 DT/Tm Tech:

Batch: 7138314 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech: BockJ



Work Order, Lot, Sample Date/Time	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 JWK1T-1-AC J7E090265-4-SAMP 05/08/2007 10:45	64.00g,in					200				
<p>AmtRec: 20ML,LP #Containers: 5 Scr: Alpha: 3.85E-04 uCi/Sa Beta: 3.62E-04 uCi/Sa</p>										
2 JWK1T-1-AE-X J7E090265-4-DUP 05/08/2007 10:45	65.10g,in					200				
<p>AmtRec: 20ML,LP #Containers: 5 Scr: Alpha: 3.85E-04 uCi/Sa Beta: 3.62E-04 uCi/Sa</p>										
3 JWK1T-2-AC J7E090265-4-SAMP 05/08/2007 10:45	64.0			1.5	95.1	200	260	1809	6/27/0700	
<p>AmtRec: 20ML,LP #Containers: 5 Scr: Alpha: 3.85E-04 uCi/Sa Beta: 3.62E-04 uCi/Sa</p>										
4 JWK1T-2-AE-X J7E090265-4-DUP 05/08/2007 10:45	65.1			1.5	81.6	200	260			
<p>AmtRec: 20ML,LP #Containers: 5 Scr: Alpha: 3.85E-04 uCi/Sa Beta: 3.62E-04 uCi/Sa</p>										
5 JWQL3-1-AC J7E110121-1-SAMP 05/09/2007 09:27	201.20g,in					100				
<p>AmtRec: 20ML,500ML,LP #Containers: 3 Scr: Alpha: 1.67E-04 uCi/Sa Beta: -9.01E-05 uCi/Sa</p>										
6 JW5Q4-1-AD J7E170139-3-SAMP 05/14/2007 12:06	155.70g,in					100				
<p>AmtRec: 20ML,500ML,3XLP,3X4LP #Containers: 8 Scr: Alpha: -1.39E-03 uCi/Sa Beta: 2.98E-03 uCi/Sa</p>										
7 JW9E1-1-AA-B J7E180000-314-BLK 05/08/2007 10:45	200.20g,in					200				
<p>AmtRec: #Containers: 1 Scr: Alpha: Beta:</p>										

6/27/2007 1:58:27 PM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 06/22/2007

Sep1 DT/Tm Tech:

Batch: 7138314

pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ



Work Order, Lot, Sample Date/Time	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 JW9E1-1-AC-C J7E180000-314-LCS		199.00g,in	BESB3072 06/13/07,pd 08/08/06,r		0.9mg	200				
05/08/2007 10:45		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:

Comments: JWK1T-SAMP "Comments. No DUP. poured due to insufficient sample amount. Please re-count on diff. detector. JB 6/19/07"

All Clients for Batch:

384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JWK1T1AC-SAMP Constituent List:

BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
JW9E11AA-BLK:					
BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
JW9E11AC-LCS:					
Sr-90	RDL:	pCi/L	LCL:70	UCL:130	RPD:20
JWK1T1AC-SAMP Calc Info:					
Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
JW9E11AA-BLK:					
Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
JW9E11AC-LCS:					
Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

Approved By _____ Date: _____

6/20/2007 10:29:42 AM

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: 06/28/2007 *W005174*

Sep1 DT/Tm Tech:

Batch: 7138317 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: *BockJ /APA*



Work Order, Lot, Sample Date/Time	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:
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1 JW5Q4-1-AE J7E170139-3-SAMP	1990.20g,in				<i>100mL 100</i>		<i>G12</i>	<i>1601</i>	<i>6/27/07 OP</i>		
05/14/2007 12:06			AmtRec: 20ML,500ML,3XLP,3X4LP #Containers: 8				Scr:	Alpha: -1.39E-03 uCi/Sa		Beta: 2.98E-03 uCi/Sa	

2 JW5Q4-1-AJ-X J7E170139-3-DUP	2005.10g,in						<i>G13</i>	<i>1602</i>	<i>6/27/07 OP</i>		
05/14/2007 12:06			AmtRec: 20ML,500ML,3XLP,3X4LP #Containers: 8				Scr:	Alpha: -1.39E-03 uCi/Sa		Beta: 2.98E-03 uCi/Sa	

3 JW9FA-1-AA-B J7E180000-317-BLK	1999.20g,in						<i>G15</i>	<i>1601</i>	<i>6/27/07 OP</i>		
05/14/2007 12:06			AmtRec: #Containers: 1				Scr:	Alpha:		Beta:	

4 JW9FA-1-AC-C J7E180000-317-LCS	2000.30g,in		QCAG1372				<i>G11</i>	<i>1604</i>	<i>6/27/07 OP</i>		
05/14/2007 12:06			AmtRec: #Containers: 1				Scr:	Alpha:		Beta:	

Comments: *PH < 2.0 JS 6-20-07*

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

JW5Q41AE-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:

JW9FA1AA-BLK:

Co-60	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
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6/20/2007 10:29:48 AM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 06/28/2007

Sep1 DT/Tm Tech: _____

Batch: 7138317

pCi/L

Sep2 DT/Tm Tech: _____

SEQ Batch, Test: None

Prep Tech: BockJ



Work Order, Lot, Sample Date/Time	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:
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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:

JW9FA1AC-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						

JW5Q41AE-SAMP Calc Info:

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

JW9FA1AA-BLK:

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

JW9FA1AC-LCS:

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

Approved By _____ Date: _____

6/19/2007 3:49:37 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: 06/22/2007 *W05174*

Sep1 DT/Tm Tech:

Batch: 7138316 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: BockJ/APA



Work Order, Lot, Sample Date/Time	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:
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1 JWK1T-1-AD J7E090265-4-SAMP 05/08/2007 10:45	2499.30g.in				<i>100 mL</i>	<i>100</i>	<i>G6</i>	<i>1559</i>	<i>6/27/07 OR</i>	
AmtRec: 20ML,LP			#Containers: 5			Scr:	Alpha: 3.85E-04 uCi/Sa	Beta: 3.62E-04 uCi/Sa		

2 JWK1T-1-AF-X J7E090265-4-DUP 05/08/2007 10:45					<i>100 mL</i>	<i>100</i>	<i>G8</i>	<i>1805</i>		
AmtRec: 20ML,LP			#Containers: 5			Scr:	Alpha: 3.85E-04 uCi/Sa	Beta: 3.62E-04 uCi/Sa		

3 JW9E9-1-AA-B J7E180000-316-BLK 05/08/2007 10:45	2503.50g.in				<i>100 mL</i>		<i>G8</i>	<i>1559</i>	<i>6/27/07 OR</i>	
AmtRec:			#Containers: 1			Scr:	Alpha:	Beta:		

4 JW9E9-1-AC-C J7E180000-316-LCS 05/08/2007 10:45	2498.00g.in	QCAG1371 05/30/07,pd 03/07/05,r			<i>100 mL</i>	<i>100</i>	<i>G8</i>	<i>1600</i>	<i>6/27/07 OR</i>	
AmtRec:			#Containers: 1			Scr:	Alpha:	Beta:		

Comments: JWK1T-SAMP "Comments. No DUP. poured due to insufficient sample amount. Please re-count on diff. detector. JB 6/19/07"

PHC20 JB 6-19-07

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

JWK1T1AD-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:						

JW9E91AA-BLK:

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 06/22/2007

Sep1 DT/Tm Tech:

Batch: 7138316

pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ



Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:	
Co-60	RDL:2.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-137DA	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Eu-152	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	Eu-154	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:
Eu-155	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Sb-125	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:						
JW9E91AC-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						
JWK1T1AD-SAMP Calc Info:											
Uncert Level (#s): 2		Decay to SaDt: Y		Blk Subt.: N		Sci.Not.: Y		ODRs: B			
JW9E91AA-BLK:											
Uncert Level (#s): 2		Decay to SaDt: Y		Blk Subt.: N		Sci.Not.: Y		ODRs: B			
JW9E91AC-LCS:											
Uncert Level (#s): 2		Decay to SaDt: Y		Blk Subt.: N		Sci.Not.: Y		ODRs: B			

Approved By _____ Date: _____

6/18/2007 2:45:23 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 06/22/2007 *W05174*

Sep1 DT/Tm Tech: _____

Batch: 7138315 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech: _____

SEQ Batch, Test: None

Prep Tech: ,BockJ



Work Order, Lot, Sample Date/Time	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 JWQPE-1-AA J7E110128-1-SAMP 05/09/2007 09:02	3959.40g,in	3959.40g,in	ITA6394 06/14/07		<i>35.9</i> ISO		<i>L2</i>	<i>1431</i>		<i>6/27/07 n</i>
AmtRec: 20ML,500ML,2X4LP #Containers: 4 Scr: Alpha: -1.39E-04 uCi/Sa Beta: 4.02E-04 uCi/Sa										
2 JWQPL-1-AA J7E110128-2-SAMP 05/09/2007 11:31	3936.20g,in	3936.20g,in	ITA6395 06/14/07		<i>36.7</i>		<i>L4</i>	<i>1435</i>		<i>6/27/07 n</i>
AmtRec: 20ML,500ML,2X4LP #Containers: 4 Scr: Alpha: -7.52E-04 uCi/Sa Beta: 6.79E-04 uCi/Sa										
3 JWQPR-1-AC J7E110131-1-SAMP 05/09/2007 12:29	3879.00g,in	3879.00g,in	ITA6396 06/14/07		<i>35.6</i>		<i>L5</i>	<i>1436</i>		<i>6/27/07 n</i>
AmtRec: 20ML,500ML,LP,2X4LP #Containers: 5 Scr: Alpha: 2.42E-04 uCi/Sa Beta: 3.46E-04 uCi/Sa										
4 JWQPR-1-AE-X J7E110131-1-DUP 05/09/2007 12:29	3996.60g,in	3996.60g,in	ITA6397 06/14/07		<i>34.9</i>		<i>L2</i>	<i>1700</i>		<i>6/27/07 op</i>
AmtRec: 20ML,500ML,LP,2X4LP #Containers: 5 Scr: Alpha: 2.42E-04 uCi/Sa Beta: 3.46E-04 uCi/Sa										
5 JWQP2-1-AC J7E110131-2-SAMP 05/09/2007 10:36	3930.30g,in	3930.30g,in	ITA6398 06/14/07		<i>36.4</i>		<i>L4</i>	<i>1702</i>		<i>6/27/07 op</i>
AmtRec: 20ML,500ML,LP,2X4LP #Containers: 5 Scr: Alpha: -3.60E-04 uCi/Sa Beta: 4.49E-04 uCi/Sa										
6 JW5Q4-1-AF J7E170139-3-SAMP 05/14/2007 12:06	3934.50g,in	3934.50g,in	ITA6399 06/14/07		<i>33.1</i>		<i>L5</i>	<i>1703</i>		<i>6/27/07 op</i>
AmtRec: 20ML,500ML,3XLP,3X4LP #Containers: 8 Scr: Alpha: -1.39E-03 uCi/Sa Beta: 2.98E-03 uCi/Sa										
7 JW9E5-1-AA-B J7E180000-315-BLK 05/09/2007 12:29	3989.80g,in	3989.80g,in	ITA6401 06/14/07		<i>35.2</i> ✓		<i>L2</i>	<i>1844</i>		<i>6/27/09 oio</i>
AmtRec: #Containers: 1 Scr: Alpha: Beta:										

6/18/2007 2:45:25 PM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 06/22/2007

Sep1 DT/Tm Tech: _____

Batch: 7138315
SEQ Batch, Test: None

pCi/L

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:
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8 JW9E5-1-AC-C J7E180000-315-LCS	3973.20g,in		ISD0755 06/13/07		34.6	100	L4	1847	6/27/07 oal	
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05/09/2007 12:29 AmtRec: #Containers: 1 Scr: Alpha: Beta:

Comments: PAC 20 g 6-18-07

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

JWQPE1AA-SAMP Constituent List:

I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
JW9E51AA-BLK:					
I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
JW9E51AC-LCS:					
I-129	RDL:5	pCi/L	LCL:70	UCL:130	RPD:20

JWQPE1AA-SAMP Calc Info:

Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
JW9E51AA-BLK:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
JW9E51AC-LCS:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

Approved By _____ Date: _____

6/25/2007 2:36:23 PM

Sample Preparation/Analysis

Balance Id: _____

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: 06/22/2007

Sep1 DT/Tm Tech: _____

Batch: 7176518 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None All Tests: 7138308 FPS5, 7138313 AZS7, 7138314 BCS8, 7138316 AWTA, 7138319 ARS6, 7176518 FPS5,

Sep2 DT/Tm Tech: _____

Prep Tech: _____



Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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1 JWK1F-2-AC										
J7E090265-1-SAMP										
05/08/2007 07:30			AmtRec: 20ML,500ML,LP	#Containers: 3			Scr:	Alpha: -4.95E-05 uCi/Sa	Beta: -9.71E-06 uCi/Sa	

2 JWK1H-2-AC										
J7E090265-2-SAMP										
05/08/2007 09:47			AmtRec: 20ML,500ML,LP	#Containers: 3			Scr:	Alpha: 1.07E-04 uCi/Sa	Beta: -5.83E-05 uCi/Sa	

3 JWMM9-2-AC										
J7E100139-1-SAMP										
05/09/2007 10:44			AmtRec: 20ML,500ML,LP	#Containers: 3			Scr:	Alpha: -2.06E-04 uCi/Sa	Beta: 3.29E-04 uCi/Sa	

4 JWMND-2-AC										
J7E100139-2-SAMP										
05/09/2007 10:44			AmtRec: 20ML,500ML,LP	#Containers: 3			Scr:	Alpha: 9.39E-05 uCi/Sa	Beta: -2.59E-05 uCi/Sa	

5 JWMNK-2-AA										
J7E100139-3-SAMP										
05/09/2007 13:22			AmtRec: 20ML,500ML	#Containers: 2			Scr:	Alpha: 2.31E-05 uCi/Sa	Beta: -3.55E-05 uCi/Sa	

6 JWQKM-2-AA										
J7E110117-1-SAMP										
05/09/2007 09:54			AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: -6.41E-05 uCi/Sa	Beta: 5.61E-05 uCi/Sa	

7 JWQKM-2-AC-X										
J7E110117-1-DUP										
05/09/2007 09:54			AmtRec: 20ML,500MLP	#Containers: 2			Scr:	Alpha: -6.41E-05 uCi/Sa	Beta: 5.61E-05 uCi/Sa	

6/25/2007 2:36:24 PM

Sample Preparation/Analysis

Balance Id:

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: 06/22/2007

Sep1 DT/Tm Tech:

Batch: 7176518 WATER

pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:



Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JWQKP-2-AA J7E110117-2-SAMP  05/09/2007 11:26										
			AmtRec: 20ML,500MLP	#Containers: 2				Scr: Alpha: 1.94E-05 uCi/Sa	Beta: -1.93E-05 uCi/Sa	
9 JWQKP-2-AC-S J7E110117-2-MS  05/09/2007 11:26										
			AmtRec: 20ML,500MLP	#Containers: 2				Scr: Alpha: 1.94E-05 uCi/Sa	Beta: -1.93E-05 uCi/Sa	
10 JWQKT-2-AA J7E110117-3-SAMP  05/09/2007 12:21										
			AmtRec: 20ML,500MLP	#Containers: 2				Scr: Alpha: -1.18E-05 uCi/Sa	Beta: 3.97E-05 uCi/Sa	
11 JWQL3-2-AD J7E110121-1-SAMP  05/09/2007 09:27										
			AmtRec: 20ML,500ML,LP	#Containers: 3				Scr: Alpha: 1.67E-04 uCi/Sa	Beta: -9.01E-05 uCi/Sa	
12 JWQPE-2-AC J7E110128-1-SAMP  05/09/2007 09:02										
			AmtRec: 20ML,500ML,2X4LP	#Containers: 4				Scr: Alpha: -1.39E-04 uCi/Sa	Beta: 4.02E-04 uCi/Sa	
13 JWQPL-2-AC J7E110128-2-SAMP  05/09/2007 11:31										
			AmtRec: 20ML,500ML,2X4LP	#Containers: 4				Scr: Alpha: -7.52E-04 uCi/Sa	Beta: 6.79E-04 uCi/Sa	
14 JWQPR-2-AD J7E110131-1-SAMP  05/09/2007 12:29										
			AmtRec: 20ML,500ML,LP,2X4LP	#Containers: 5				Scr: Alpha: 2.42E-04 uCi/Sa	Beta: 3.46E-04 uCi/Sa	

6/25/2007 2:36:25 PM

Sample Preparation/Analysis

Balance Id:

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: 06/22/2007

Sep1 DT/Tm Tech:

Batch: 7176518 WATER

pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:



Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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15 JWQP2-2-AD										
J7E110131-2-SAMP										
05/09/2007 10:36										
			AmtRec: 20ML,500ML,LP,2X4LP	#Containers: 5			Scr:	Alpha: -3.60E-04 uCi/Sa	Beta: 4.49E-04 uCi/Sa	

16 JWQF-2-AC										
J7E110131-3-SAMP										
05/09/2007 13:23										
			AmtRec: 20ML,500ML,LP	#Containers: 3			Scr:	Alpha: -2.78E-04 uCi/Sa	Beta: 2.64E-04 uCi/Sa	

17 JW5K9-2-AC										
J7E170139-1-SAMP										
05/14/2007 10:46										
			AmtRec: 20ML,500ML,LP	#Containers: 3			Scr:	Alpha: -3.76E-05 uCi/Sa	Beta: 2.85E-05 uCi/Sa	

18 JW5P1-2-AC										
J7E170139-2-SAMP										
05/14/2007 11:32										
			AmtRec: 20ML,500ML,LP	#Containers: 3			Scr:	Alpha: 2.59E-04 uCi/Sa	Beta: -8.53E-05 uCi/Sa	

19 JW5Q4-2-AH										
J7E170139-3-SAMP										
05/14/2007 12:06										
			AmtRec: 20ML,500ML,3XLP,3X4LP	#Containers: 8			Scr:	Alpha: -1.39E-03 uCi/Sa	Beta: 2.98E-03 uCi/Sa	

20 JW9D2-2-AA-B										
J7E180000-308-BLK										
05/09/2007 09:54										
			AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:	

21 JW9D2-2-AC-C										
J7E180000-308-LCS										
05/09/2007 09:54										
			AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:	

6/25/2007 2:36:26 PM

Sample Preparation/Analysis

Balance Id: _____

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

Pipet #: _____

AnalyDueDate: 06/22/2007

Sep1 DT/Tm Tech: _____

Batch: 7176518

pCi/L

Sep2 DT/Tm Tech: _____

SEQ Batch, Test: None

Prep Tech: _____



Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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22 JW9D2-2-AD-B										
J7E180000-308-BLK										
05/09/2007 09:54			AmtRec:	#Containers: 1			Scr:	Alpha:		Beta:

23 JW9D2-2-AE-B										
J7E180000-308-BLK										
05/09/2007 09:54			AmtRec:	#Containers: 1			Scr:	Alpha:		Beta:

Comments:

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

JWK1F2AC-SAMP Constituent List:

Tc-99	RDL:15	pCi/L	LCL:70	UCL:130	RPD:20
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JWQKP2AC-MS:

Tc-99	RDL:15	pCi/L	LCL:	UCL:	RPD:
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JW9D22AA-BLK:

Tc-99	RDL:15	pCi/L	LCL:70	UCL:130	RPD:20
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JW9D22AC-LCS:

Tc-99	RDL:15	pCi/L	LCL:	UCL:	RPD:
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JW9D22AD-BLK:

Tc-99	RDL:15	pCi/L	LCL:	UCL:	RPD:
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JW9D22AE-BLK:

Tc-99	RDL:15	pCi/L	LCL:	UCL:	RPD:
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JWK1F2AC-SAMP Calc Info:

Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
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JWQKP2AC-MS:

Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
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JW9D22AA-BLK:

Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
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JW9D22AC-LCS:

Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
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6/25/2007 2:36:26 PM

Sample Preparation/Analysis

Balance Id: _____

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

Pipet #: _____

AnalyDueDate: 06/22/2007

Sep1 DT/Tm Tech: _____

Batch: 7176518
SEQ Batch, Test: None

pCi/L

Sep2 DT/Tm Tech: _____

Prep Tech: _____



Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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JW9D22AD-BLK:
 Uncert Level (#s)..: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JW9D22AE-BLK:
 Uncert Level (#s)..: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

5/18/2007 11:25:02 AM

Sample Preparation/Analysis

Balance Id: 12445

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

AR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint

Pipet #: _____

AnalyDueDate: 06/22/2007 *W05174*

5I CLIENT: HANFORD

Sep1 DT/Tm Tech: 6-20-07 *Tom*

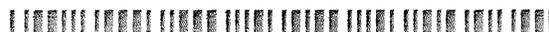
Batch: 7138319 WATER pCi/L

PM, Quote: SA, 57671

Sep2 DT/Tm Tech: _____

SEQ Batch, Test: None

Prep Tech: _____



Work Order, Lot, Sample Date/Time	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:
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1 JWK1F-1-AA J7E090265-1-SAMP 								
05/08/2007 07:30		AmtRec: 20ML,500ML,LP	#Containers: 3			Scr:	Alpha:	Beta:

2 JWK1H-1-AA J7E090265-2-SAMP 								
05/08/2007 09:47		AmtRec: 20ML,500ML,LP	#Containers: 3			Scr:	Alpha:	Beta:

3 JWK1L-1-AA J7E090265-3-SAMP 								
05/08/2007 12:36		AmtRec: 20ML,LP	#Containers: 2			Scr:	Alpha:	Beta:

4 JWMM9-1-AA J7E100139-1-SAMP 								
05/09/2007 10:44		AmtRec: 20ML,500ML,LP	#Containers: 3			Scr:	Alpha:	Beta:

5 JWMM9-1-AD-X J7E100139-1-DUP 								
05/09/2007 10:44		AmtRec: 20ML,500ML,LP	#Containers: 3			Scr:	Alpha:	Beta:

6 JWMND-1-AA J7E100139-2-SAMP 								
05/09/2007 10:44		AmtRec: 20ML,500ML,LP	#Containers: 3			Scr:	Alpha:	Beta:

7 JWQPR-1-AA J7E110131-1-SAMP 								
05/09/2007 12:29		AmtRec: 20ML,500ML,LP,2X4LP	#Containers: 5			Scr:	Alpha:	Beta:

5/18/2007 11:25:04 AM

Sample Preparation/Analysis

Balance Id: 12445

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint

Pipet #: _____

AnalyDueDate: 06/22/2007

5I CLIENT: HANFORD

Sep1 DT/Tm Tech: *G. J. Ostrom*

Batch: 7138319 WATER pCi/L

PM, Quote: SA, 57671

Sep2 DT/Tm Tech: _____

SEQ Batch, Test: None

Prep Tech: _____



Work Order, Lot, Sample Date/Time	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:
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8 JWQP2-1-AA J7E110131-2-SAMP  05/09/2007 10:36								
AmtRec: 20ML,500ML,LP,2X4LP			#Containers: 5		Scr:	Alpha:	Beta:	

9 JWQF-1-AA J7E110131-3-SAMP  05/09/2007 13:23								
AmtRec: 20ML,500ML,LP			#Containers: 3		Scr:	Alpha:	Beta:	

10 JW5K9-1-AA J7E170139-1-SAMP  05/14/2007 10:46								
AmtRec: 20ML,500ML,LP			#Containers: 3		Scr:	Alpha:	Beta:	

11 JW5P1-1-AA J7E170139-2-SAMP  05/14/2007 11:32								
AmtRec: 20ML,500ML,LP			#Containers: 3		Scr:	Alpha:	Beta:	

12 JW5Q4-1-AA J7E170139-3-SAMP  05/14/2007 12:06								
AmtRec: 20ML,500ML,3XLP,3X4LP			#Containers: 8		Scr:	Alpha:	Beta:	

13 JW9FG-1-AA-B J7E180000-319-BLK  05/09/2007 10:44								
AmtRec:			#Containers: 1		Scr:	Alpha:	Beta:	

14 JW9FG-1-AC-C J7E180000-319-LCS  05/09/2007 10:44								
AmtRec:			#Containers: 1		Scr:	Alpha:	Beta:	

5/18/2007 11:25:07 AM

Sample Preparation/Analysis

Balance Id: *D445*

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

Pipet #: _____

AnalyDueDate: 06/22/2007

Sep1 DT/Tm Tech: *@ 10:07 am*

Batch: 7138319
SEQ Batch, Test: None

pCi/L

Sep2 DT/Tm Tech:

Prep Tech:



Work Order, Lot, Sample Date/Time	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:
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15 JW9FG-1-AD-BX J7E180000-319-MBLK 								
05/09/2007 10:44	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

16 JW9FG-1-AE-CM J7E180000-319-MLCS 								
05/09/2007 10:44	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

17 JW9FG-1-AF-BN J7E180000-319-IBLK 								
05/09/2007 10:44	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

18 JW9FG-1-AG-BN J7E180000-319-IBLK 								
05/09/2007 10:44	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

19 JW9FG-1-AH-BN J7E180000-319-IBLK 								
05/09/2007 10:44	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments:

All Clients for Batch:

384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA, 57671

JWK1F1AA-SAMP Constituent List:

H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20

5/18/2007 11:25:13 AM

Sample Preparation/Analysis

Balance Id: 12445

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

Pipet #: _____

AnalyDueDate: 06/22/2007

Sep1 DT/Tm Tech: 6-20-07m

Batch: 7138319
SEQ Batch, Test: None

pCi/L

Sep2 DT/Tm Tech: _____

Prep Tech: _____



Work Order, Lot, Sample Date/Time	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:
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JW9FG1AA-BLK: H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:			
JW9FG1AC-LCS: H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20			
JW9FG1AD-MBLK: H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:			
JW9FG1AE-MLCS: H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20			
JW9FG1AF-IBLK: H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:			
JW9FG1AG-IBLK: H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:			
JW9FG1AH-IBLK: H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:			
JWK1F1AA-SAMP Calc Info: Uncert Level (#s): 2	Decay to SaDt: Y		Blk Subt.: N	Sci.Not.: Y	ODRs: B			
JW9FG1AA-BLK: Uncert Level (#s): 2	Decay to SaDt: Y		Blk Subt.: N	Sci.Not.: Y	ODRs: B			
JW9FG1AC-LCS: Uncert Level (#s): 2	Decay to SaDt: Y		Blk Subt.: N	Sci.Not.: Y	ODRs: B			
JW9FG1AD-MBLK: Uncert Level (#s): 2	Decay to SaDt: Y		Blk Subt.: N	Sci.Not.: Y	ODRs: B			
JW9FG1AE-MLCS: Uncert Level (#s): 2	Decay to SaDt: Y		Blk Subt.: N	Sci.Not.: Y	ODRs: B			
JW9FG1AF-IBLK: Uncert Level (#s): 2	Decay to SaDt: Y		Blk Subt.: N	Sci.Not.: Y	ODRs: B			
JW9FG1AG-IBLK: Uncert Level (#s): 2	Decay to SaDt: Y		Blk Subt.: N	Sci.Not.: Y	ODRs: B			
JW9FG1AH-IBLK: Uncert Level (#s): 2	Decay to SaDt: Y		Blk Subt.: N	Sci.Not.: Y	ODRs: B			

Approved By _____

Date: _____

6/20/2007 9:55:08 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AA Ni-63 PrpRC5016, SepRC5069
S4 Nickel by ICP and Nickel-63 by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/28/2007 *W05174*

Sep1 DT/Tm Tech:

Batch: 7138318 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 JW5Q4-1-AG J7E170139-3-SAMP 05/14/2007 12:06			400.20g,in	400.20g	NITA2434 06/19/07	100				
			AmtRec: 20ML,500ML,3XLP,3X4LP #Containers: 8					Scr:	Alpha: -1.39E-03 uCi/Sa	Beta: 2.98E-03 uCi/Sa
2 JW5Q4-1-AK-X J7E170139-3-DUP 05/14/2007 12:06			398.40g,in	398.40g	NITA2435 06/19/07					
			AmtRec: 20ML,500ML,3XLP,3X4LP #Containers: 8					Scr:	Alpha: -1.39E-03 uCi/Sa	Beta: 2.98E-03 uCi/Sa
3 JW9FE-1-AA-B J7E180000-318-BLK 05/14/2007 12:06			398.40g,in	398.40g	NITA2436 06/19/07					
			AmtRec: #Containers: 1					Scr:	Alpha:	Beta:
4 JW9FE-1-AC-C J7E180000-318-LCS 05/14/2007 12:06			399.20g,in	399.20g	NISA0763 06/19/07					
			AmtRec: #Containers: 1					Scr:	Alpha:	Beta:
5 JW9FE-1-AD-BN J7E180000-318-IBLK 05/14/2007 12:06										
			AmtRec: #Containers: 1					Scr:	Alpha:	Beta:

Comments: *PH < 2.0 936-20-07*

All Clients for Batch:

384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JW5Q41AG-SAMP Constituent List:

Ni-63 RDL:15 pCi/L LCL:70 UCL:130 RPD:20

6/20/2007 9:55:16 AM

Sample Preparation/Analysis

Balance Id: _____

AA Ni-63 PrpRC5016, SepRC5069
S4 Nickel by ICP and Nickel-63 by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/28/2007

Sep1 DT/Tm Tech: _____

Batch: 7138318

pCi/L

Sep2 DT/Tm Tech: _____

SEQ Batch, Test: None

Prep Tech: _____



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

JW9FE1AA-BLK:										
Ni-63	RDL:15	pCi/L	LCL:	UCL:	RPD:					
JW9FE1AC-LCS:										
Ni-63	RDL:15	pCi/L	LCL:70	UCL:130	RPD:20					
JW9FE1AD-IBLK:										
Ni-63	RDL:15	pCi/L	LCL:	UCL:	RPD:					
JW5Q41AG-SAMP Calc Info:										
Uncert Level (#s):	2	Decay to SaDt:	Y	Blk Subt.:	N	Sci.Not.:	Y	ODRs:	B	
JW9FE1AA-BLK:										
Uncert Level (#s):	2	Decay to SaDt:	Y	Blk Subt.:	N	Sci.Not.:	Y	ODRs:	B	
JW9FE1AC-LCS:										
Uncert Level (#s):	2	Decay to SaDt:	Y	Blk Subt.:	N	Sci.Not.:	Y	ODRs:	B	
JW9FE1AD-IBLK:										
Uncert Level (#s):	2	Decay to SaDt:	Y	Blk Subt.:	N	Sci.Not.:	Y	ODRs:	B	

Approved By _____ Date: _____

5/18/2007 11:24:32 AM

Sample Preparation/Analysis

Balance Id: _____

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
IZ COLIFORM BY METHOD 9223

Pipet #: _____

AnalyDueDate: 06/22/2007

W05174

5I CLIENT: HANFORD

Sep1 DT/Tm Tech: _____

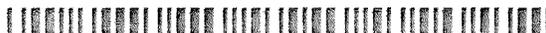
Batch: 7138312 WATER

PM, Quote: SA , 57671

Sep2 DT/Tm Tech: _____

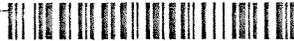
SEQ Batch, Test: None

Prep Tech: _____



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

1 JWK2L-1-AA J7E090275-1-SAMP 								
05/09/2007 08:33	AmtRec: 20ML,500MLP	#Containers: 2				Scr:	Alpha:	Beta:

2 JWK2L-1-AC-X J7E090275-1-DUP 								
05/09/2007 08:33	AmtRec: 20ML,500MLP	#Containers: 2				Scr:	Alpha:	Beta:

3 JW9EV-1-AA-B J7E180000-312-BLK 								
05/09/2007 08:33	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

4 JW9EV-1-AC-C J7E180000-312-LCS 								
05/09/2007 08:33	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments:

All Clients for Batch:

384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

JWK2L1AA-SAMP Constituent List:

JW9EV1AA-BLK:

JW9EV1AC-LCS:

JWK2L1AA-SAMP Calc Info:

5/18/2007 11:24:36 AM

Sample Preparation/Analysis

Balance Id: _____

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
IZ COLIFORM BY METHOD 9223

Pipet #: _____

AnalyDueDate: 06/22/2007

5I CLIENT: HANFORD

Sep1 DT/Tm Tech: _____

Batch: 7138312

Sep2 DT/Tm Tech: _____

SEQ Batch, Test: None

Prep Tech: _____



Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
JW9EV1AA-BLK:	Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B			
JW9EV1AC-LCS:	Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B			
	Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B			

Approved By _____ Date: _____

6/27/2007 1:47:50 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/27/2006, 7/2/2007, Batch: '7138313', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
7138313				
AC	CalcC	BockJ	6/19/2007 12:50:24	
SC		wagarr	IsBatched 5/18/2007 11:29:43 AM	ICOC_RADCALC v4.8.26
SC		BockJ	InPrep 6/19/2007 12:50:24 PM	RICH-RC-5016 Revision 7
SC		BockJ	Prep1C 6/19/2007 12:56:51 PM	RICH-RC-5014 REVISION 7
SC		AshworthA	InPrep2 6/26/2007 9:15:59 AM	RICH-RC-5014 REVISION 7
SC		HARBINSOND	InPrep 6/26/2007 4:08:33 PM	RICHRC5014 REV6
SC		HARBINSOND	Prep1C 6/26/2007 4:11:37 PM	RICHRC5014 REV6
SC		DAWKINSO	InCnt1 6/26/2007 5:31:45 PM	RICH-RD-0003 REVISION 5
SC		StringerR	CalcC 6/27/2007 1:14:54 PM	RICH-RD-0003 REVISION 5
AC		BockJ	6/19/2007 12:56:51	
AC		AshworthA	6/26/2007 9:15:59	
AC		HARBINSOND	6/26/2007 4:08:33 PM	
AC		HARBINSOND	6/26/2007 4:11:37 PM	
AC		DAWKINSO	6/26/2007 5:31:45 PM	
AC		StringerR	6/27/2007 1:14:54 PM	

AC: Accepting Entry; SC: Status Change

ICOC Fraction Transfer/Status Report

ByDate: 6/28/2006, 7/3/2007, Batch: '7138314', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
7138314				
AC	CalcC	BockJ	6/19/2007 12:29:12	
SC		wagarr	IsBatched	5/18/2007 11:29:43 AM
SC		BockJ	InPrep	6/19/2007 12:29:12 PM
SC		BockJ	Prep1C	6/19/2007 12:48:11 PM
SC		AshworthA	InPrep2	6/26/2007 9:15:50 AM
SC		HARBINSOND	InPrep	6/26/2007 4:09:27 PM
SC		HARBINSOND	Prep1C	6/26/2007 4:12:17 PM
SC		DAWKINSO	InCnt1	6/26/2007 5:16:54 PM
SC		StringerR	CalcC	6/27/2007 12:23:12 PM
SC		DAWKINSO	InCnt1	6/27/2007 2:34:13 PM
SC		DAWKINSO	CalcC	6/27/2007 7:04:22 PM
AC		BockJ	6/19/2007 12:48:11	
AC		AshworthA	6/26/2007 9:15:50	
AC		HARBINSOND	6/26/2007 4:09:27 PM	
AC		HARBINSOND	6/26/2007 4:12:17 PM	
AC		DAWKINSO	6/26/2007 5:16:54 PM	
AC		StringerR	6/27/2007 12:23:12	
AC		DAWKINSO	6/27/2007 2:34:13 PM	
AC		DAWKINSO	6/27/2007 7:04:22 PM	

AC: Accepting Entry; SC: Status Change

ICOC Fraction Transfer/Status Report

ByDate: 6/28/2006, 7/3/2007, Batch: '7138317', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
7138317				
AC	CalcC	BockJ	6/20/2007 10:19:21	
SC		wagarr	IsBatched 5/18/2007 11:29:43 AM	ICOC_RADCALC v4.8.26
SC		BockJ	InPrep 6/20/2007 10:19:21 AM	RICH-RC-5016 Revision 7
SC		BockJ	Prep1C 6/20/2007 10:29:44 AM	RICH-RC-5017 REVISION 6
SC		AshworthA	InPrep2 6/26/2007 9:16:29 AM	RICH-RC-5017 REVISION 6
SC		AshworthA	Prep2C 6/27/2007 1:56:38 PM	RICH-RC-5017 REVISION 6
SC		DAWKINSO	InCnt1 6/27/2007 2:18:50 PM	RICH-RD-0007 REVISION 6
SC		DAWKINSO	CalcC 6/27/2007 5:39:50 PM	RICH-RD-0007 REVISION 6
AC		BockJ	6/20/2007 10:29:44	
AC		AshworthA	6/26/2007 9:16:29	
AC		AshworthA	6/27/2007 1:56:38 PM	
AC		DAWKINSO	6/27/2007 2:18:50 PM	
AC		DAWKINSO	6/27/2007 5:39:50 PM	rEVISION 6

AC: Accepting Entry; SC: Status Change

ICOC Fraction Transfer/Status Report

ByDate: 6/28/2006, 7/3/2007, Batch: '7138316', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
7138316				
AC	CalcC	BockJ	6/19/2007 3:39:54 PM	
SC		wagarr	IsBatched 5/18/2007 11:29:43 AM	ICOC_RADCALC v4.8.26
SC		BockJ	InPrep 6/19/2007 3:39:54 PM	RICH-RC-5016 Revision 7
SC		BockJ	Prep1C 6/19/2007 3:49:42 PM	RICH-RC-5017 REVISION 6
SC		AshworthA	InPrep2 6/26/2007 9:16:22 AM	RICH-RC-5017 REVISION 6
SC		AshworthA	Prep2C 6/27/2007 1:56:29 PM	RICH-RC-5017 REVISION 6
SC		DAWKINSO	InCnt1 6/27/2007 2:18:55 PM	RICH-RD-0007 REVISION 6
SC		DAWKINSO	CalcC 6/27/2007 6:14:02 PM	RICH-RD-0007 REVISION 6
AC		BockJ	6/19/2007 3:49:42 PM	
AC		AshworthA	6/26/2007 9:16:22	
AC		AshworthA	6/27/2007 1:56:29 PM	
AC		DAWKINSO	6/27/2007 2:18:55 PM	
AC		DAWKINSO	6/27/2007 6:14:02 PM	

AC: Accepting Entry; SC: Status Change

ICOC Fraction Transfer/Status Report

ByDate: 6/28/2006, 7/3/2007, Batch: '7138315', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
7138315				
AC	CalcC	BockJ	6/18/2007 2:18:10 PM	
SC		wagarr	IsBatched 5/18/2007 11:29:43 AM	ICOC_RADCALC v4.8.26
SC		BockJ	InPrep 6/18/2007 2:18:10 PM	RICH-RC-5016 Revision 7
SC		BockJ	Prep1C 6/18/2007 2:45:42 PM	RICH-RC-5017 REVISION 6
SC		BostedD	Prep2C 6/27/2007 11:23:55 AM	RICHRC5025 REVISION 4
SC		DAWKINSO	CalcC 6/27/2007 7:43:08 PM	RICH-RD-0007 REVISION 6
AC		BockJ	6/18/2007 2:45:42 PM	
AC		BostedD	6/27/2007 11:23:55	
AC		DAWKINSO	6/27/2007 7:43:08 PM	

AC: Accepting Entry; SC: Status Change

ICOC Fraction Transfer/Status Report

ByDate: 6/28/2006, 7/3/2007, Batch: '7176518', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
7176518				
AC		Rev1C	NortonJ	6/25/2007 2:38:18 PM
SC			nortonj	IsBatched 6/25/2007 2:36:20 PM
SC			NortonJ	InPrep 6/25/2007 2:38:18 PM
SC			DAWKINSO	InCnt1 6/25/2007 3:31:02 PM
SC			DAWKINSO	CalcC 6/27/2007 8:29:37 PM
SC			NortonJ	Rev1C 6/28/2007 7:51:54 AM
AC			DAWKINSO	6/25/2007 3:31:02 PM
AC			DAWKINSO	6/27/2007 8:29:37 PM
AC			NortonJ	6/28/2007 7:51:54
				ICOC_RADCALC v4.8.26
				richrc5065 rev6
				RICH-RD-0001 REVISION 4
				RICH-RD-0001 REVISION 4
				RICHRC0002 REV7

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

6/25/2007 2:17:33 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/25/2006, 6/30/2007, Batch: '7138319', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting	Comments
	7138319				
AC		CalcC	McDowellID	6/21/2007 3:01:25 PM	
SC			wagarr	IsBatched 5/18/2007 11:29:43 AM	ICOC_RADCALC v4.8.26
SC			McDowellID	Sep1C 6/21/2007 3:01:25 PM	RICH-RC-5007 REVISION 6
SC			DAWKINSO	InCnt1 6/21/2007 3:13:06 PM	RICH-RD-0001 REVISION 4
SC			StringerR	CalcC 6/23/2007 11:53:04 AM	RICH-RD-0001 REVISION 4
SC			StringerR	CalcC 6/23/2007 12:17:00 PM	RICH-RD-0001 REVISION 4
AC			DAWKINSO	6/21/2007 3:13:06 PM	
AC			StringerR	6/23/2007 11:53:04	
AC			StringerR	6/23/2007 12:17:00	

AC: Accepting Entry; SC: Status Change

STL Richland
Richland Wa.

ICOC Fraction Transfer/Status Report

ByDate: 7/6/2006, 7/11/2007, Batch: '7138318', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
7138318				
AC	CalcC	BockJ	6/20/2007 9:42:18	
SC		wagarr	IsBatched	5/18/2007 11:29:43 AM
SC		BockJ	InPrep	6/20/2007 9:42:18 AM
SC		BockJ	Prep1C	6/20/2007 9:55:11 AM
SC		FABREM	InSep1	6/20/2007 10:50:54 AM
SC		FABREM	Sep1C	6/25/2007 6:32:24 PM
SC		DAWKINSO	InCnt1	6/25/2007 6:42:26 PM
SC		BlackCL	CalcC	7/5/2007 10:32:39 AM
AC		BockJ	6/20/2007 9:55:11	
AC		FABREM	6/20/2007 10:50:54	
AC		FABREM	6/25/2007 6:32:24 PM	
AC		DAWKINSO	6/25/2007 6:42:26 PM	
AC		BlackCL	7/5/2007 10:32:39	

AC: Accepting Entry; SC: Status Change

RQC050

Severn Trent Laboratories, Inc.
WET CHEM BATCHSHEET

Run Date: 6/25/07
Time: 13:33:33

STL Richland

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE
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METHOD: IZ COLIFORM BY METHOD 9223
 QC BATCH #: 7138312
 PREP DATE: 5/18/07
 COMP DATE: 5/18/07
 USER: WAGARR

INITIALS:
 PREP Dm
 ANAL Dm

DATA ENTRY:
 INITIALS SKS
 DATE 6/25/07

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JWK2L-1-AA	J-7E090275-001	XX I 88 IZ 5I	E	<1	B1N5P5
JWK2L-1-AC	J-7E090275-001-X	XX I 88 IZ 5I	E	<1	B1N5P5 DUP
JW9EV-1-AA	J-7E180000-312-B	XX I 88 IZ 5I		<1	INTRA-LAB BLANK
JW9EV-1-AC	J-7E180000-312-C	XX I 88 IZ 5I		187.2	INTRA-LAB CHECK

Control Limits

(0-0)