1216640

W05160

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TOTAL # PAGES IN DOCUMENT 148

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Analytical Data Package Prepared For

Pacific Northwest National Lab

Radiochemical Analysis By

STL Richland STLRL

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

Data Package Contains _____ Pages

Report Nbr: 35557

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05160	W07-002	B1M8B4	J7D200303-1	JVC7V1AA	9JVC7V10	7121260
		B1M8B4	J7D200303-1	JVC7V1AD	9JVC7V10	7121249
		B1M8B4	J7D200303-1	JVC7V1AG	9JVC7V10	7121251
		B1M8B4	J7D200303-1	JVC7V2AE	9JVC7V20	7121252
		B1M8B4	J7D200303-1	JVC7V2AF	9JVC7V20	7151386
		B1M8B4	J7D200303-1	JVC7V2AJ	9JVC7V20	7156527
	S07-004	B1MPL8	J7D230120-1	JVF8V1AA	9JVF8V10	7121260
		B1MPL8	J7D230120-1	JVF8V1AD	9JVF8V10	7121249
		B1MPL8	J7D230120-1	JVF8V1AE	9JVF8V10	7121257
		B1MPL8	J7D230120-1	JVF8V1AF	9JVF8V10	7121255
		B1MPL8	J7D230120-1	JVF8V2AC	9JVF8V20	7156527
		B1MPM2	J7D230120-2	JVF831AA	9JVF8310	7121260
		B1MPM2	J7D230120-2	JVF831AD	9JVF8310	7121249
		B1MPM2	J7D230120-2	JVF831AE	9JVF8310	7121257
		B1MPM2	J7D230120-2	JVF832AC	9JVF8320	7156527

Comments:

Report Nbr: 35557

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05160	S07-004	B1MR28	J7D230120-3	JVF9M1AA	9JVF9M10	7121252
		B1MR28	J7D230120-3	JVF9M1AC	9JVF9M10	7121257
		B1MR28	J7D230120-3	JVF9M2AD	9JVF9M20	7151386
		B1MR32	J7D230131-1	JVGE61AA	9JVGE610	7121252
		B1MR32	J7D230131-1	JVGE61AC	9JVGE610	7121255
		B1MR33	J7D230131-2	JVGE71AA	9JVGE710	7121252
		B1MR33	J7D230131-2	JVGE71AC	9JVGE710	7121255
		B1MRK1	J7D230131-3	JVGFA1AA	9JVGFA10	7121260
		B1MRK1	J7D230131-3	JVGFA1AD	9JVGFA10	7121249
		B1MRK1	J7D230131-3	JVGFA1AE	9JVGFA10	7121257
		B1MRK1	J7D230131-3	JVGFA2AC	9JVGFA20	7156527
		B1MRL3	J7D230131-4	JVGFH1AA	9JVGFH10	7121260
		B1MRL3	J7D230131-4	JVGFH1AD	9JVGFH10	7121249
		B1MRL3	J7D230131-4	JVGFH1AE	9JVGFH10	7121257
		B1MRL3	J7D230131-4	JVGFH2AC	9JVGFH20	7156527
	I07-038	B1MN38	J7D230135-1	JVGGC1AA	9JVGGC10	7121257
		B1MN38	J7D230135-1	JVGGC1AC	9JVGGC10	7121255
		B1MN37	J7D230135-2	JVGGD1AA	9JVGGD10	7121257
		B1MN37	J7D230135-2	JVGGD1AC	9JVGGD10	7121255
	A07-003	B1MCV2	J7D230138-1	JVGGR1AA	9JVGGR10	7121260
		B1MCV2	J7D230138-1	JVGGR1AC	9JVGGR10	7121257
		B1MCV2	J7D230138-1	JVGGR1AE	9JVGGR10	7121251
		B1MCV2	J7D230138-1	JVGGR2AD	9JVGGR20	7151386
		B1MCV1	J7D230138-2	JVGGX1AA	9JVGGX10	7121260
		B1MCV1	J7D230138-2	JVGGX1AC	9JVGGX10	7121257
		B1MCV1	J7D230138-2	JVGGX1AE	9JVGGX10	7121251

Comments:

Report Nbr: 35557

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05160	A07-003	B1MCV1	J7D230138-2	JVGGX2AD	9JVGGX20	7151386
	W07-004	B1MNM3	J7D240112-1	JVHLE1AC	9JVHLE10	7121249
		B1MNM3	J7D240112-1	JVHLE2AA	9JVHLE20	7156527
	A07-004	B1MMF2	J7D240116-1	JVHL31AA	9JVHL310	7121260
		B1MMF2	J7D240116-1	JVHL31AC	9JVHL310	7121257
		B1MMF2	J7D240116-1	JVHL31AE	9JVHL310	7121251
		B1MMF2	J7D240116-1	JVHL32AD	9JVHL320	7151386
		B1MMF5	J7D240116-2	JVHMA1AA	9JVHMA10	7121260
		B1MMF5	J7D240116-2	JVHMA1AC	9JVHMA10	7121257
		B1MMF5	J7D240116-2	JVHMA1AE	9JVHMA10	7121251
		B1MMF5	J7D240116-2	JVHMA2AD	9JVHMA20	7151386
	S07-004	B1MR42	J7D240127-1	JVHP01AA	9JVHP010	7121252
		B1MR42	J7D240127-1	JVHP01AC	9JVHP010	7121255
		B1MR42	J7D240127-1	JVHP02AD	9JVHP020	7151386
		B1MR99	J7D240130-1	JVHQJ1AC	9JVHQJ10	7121257
		B1MR99	J7D240130-1	JVHQJ2AA	9JVHQJ20	7145450
		B1MRB4	J7D240130-2	JVHQT1AA	9JVHQT10	7121260
		B1MRB4	J7D240130-2	JVHQT1AC	9JVHQT10	7121257
		B1MRB4	J7D240130-2	JVHQT1AD	9JVHQT10	7121255
		B1MPN0	J7D300133-1	JVXTX2AA	9JVXTX20	7149236
	S07-003	B1MF88	J7D300136-1	JVXT52AA	9JVXT520	7149236

Comments:

SEVERN TRENT STL

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Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

June 11, 2007

Attention: Steve Trent

SAF Number	:	W07-002, S07-004, I07-038, A07-003, W07-004, A07-004, S07-003
Date SDG Closed	:	April 26, 2007
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05160
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between April 19, 2007 and April 26, 2007 twenty water samples were received at STL Richland (STLR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Pacific Northwest National Laboratories (PGW) specific IDs:

PGW ID#	STLR ID#	DATE OF RECEIPT	MATRIX
B1M8B4	JVC7V	4/19/07	WATER
B1MPL8	JVF8V	4/20/07	WATER
B1MPM2	JVF83	4/20/07	WATER
B1MR28	JVF9M	4/20/07	WATER
B1MR32	JVGE6	4/20/07	WATER
B1MR33	JVGE7	4/20/07	WATER
B1MRK1	JVGFA	4/20/07	WATER
B1MRL3	JVGFH	4/20/07	WATER
B1MN38	JVGGC	4/20/07	WATER
B1MN37	JVGGD	4/20/07	WATER
B1MCV2	JVGGR	4/20/07	WATER
B1MCV1	JVGGX	4/20/07	WATER
B1MNM3	JVHLE	4/23/07	WATER

B1MMF2	JVHL3	4/23/07	WATER
B1MMF5	JVHMA	4/23/07	WATER
B1MR42	JVHP0	4/23/07	WATER
B1MR99	JVHQJ	4/23/07	WATER
B1MRB4	JVHQT	4/23/07	WATER
B1MPN0	JVXTX	4/26/07	WATER
B1MF88	JVXT5	4/26/07	WATER

II. Sample Receipt

The samples were received in good condition. Only 1 1000ml G/P bottle was received for the GAMMALL_GS: List-1(9) analysis, sample ID B1M8B4. Also only 1 125ml P bottle was received for the 906.0_H3_LSC: Tritium (1) analysis, sample ID B1M8B4.

III. Analytical Results/Methodology

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

The requested analyses were:

Gas Proportional Counting
Gross Alpha by method RICH-RC-5014
Gross Beta by method RICH-RC-5014
Strontium-90 by method RICH-RC-5006
Gamma Spectroscopy
Gamma Spec (LL) by method RICH-RC-5017
Iodine-129 (LL) by method RICH-RC-5025
Liquid Scintillation Counting
Enriched Tritium by method RICH-RC-5024
Technetium-99 by TEVA method RICH-RC-5065
Tritium by method RICH-RC-5007
Laser Induced Phosphorimetry
Total Uranium by method RICH-RC-5058

IV. Quality Control

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

QC and sample results are reported in the same units.

V. Comments

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:

The original batch failed to a low LCS recovery. The batch was reanalyzed and counted for the longest time frame appropriate for the analysis. Samples B1M8B4, B1M8B4 DUP and B1MNM3 did not meet the CRDL, however they were analyzed with reduced volumes based on elevated screen results. Except as noted, the LCS, batch blank, samples and sample duplicate (B1M8B4) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:

Sample B1M8B4 was analyzed with a reduced aliquot based on elevated screen results. The sample did not meet the RDL due to the reduced aliquot sized. The sample was counted for the longest time frame appropriate to the analysis, and the activity detected in the sample was significantly greater than the IDC. The LCS, batch blank, samples and sample duplicate (B1D170) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006

The LCS, batch blank, samples and sample duplicate (B1MN37) results are within contractual requirements.

Gamma Spectroscopy

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

Sample B1M8B4 did not meet the CRDL. The sample was recounted for 200 minutes and now meets the CRDL. Except as noted, the LCS, batch blank, samples and sample duplicate (B1MR42) results are within contractual requirements.

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

The LCS, batch blank, samples and sample duplicate (B1MN38) results are within contractual requirements.

Liquid Scintillation Counting

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

The initial count of the samples produced TSIEs grater than the upper boundary of the quench curve. Further mixing and a recount of the samples provided acceptable data. Except as noted, the LCS, batch blank, samples, sample duplicate (B1MCV2), and sample matrix spike (B1MCV1) results are within contractual requirements.

Tritium by method RICH-RC-5007:

The duplicates in the original batch did not agree. A recount was issued and the duplicates are within acceptable limits. Except as noted, the LCS, batch blank, samples and sample duplicate (B1MR99) results are within contractual requirements.

Enriched Tritium by method RICH-RC-5024

The blank result was high on the first count. Upon a recount the blank value was acceptable. Except as noted, the LCS, batch blank, samples and sample duplicate (BMPN0) results are within contractual requirements.

Pacific Northwest National Laboratories
June 11, 2007

Total Uranium

Total Uranium by method RICH-RC-5058:

The LCS, batch blank, samples, sample duplicate (B1M8B4), and sample matrix spike (B1MMF2) results are within contractual requirements.

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

Reviewed and approved:

Sherryl A. Adam
Project Manager

Drinking Water Method Cross References

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

Uncertainty Estimation

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

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

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

Report Definitions

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

6/11/2007 2:15:30 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35557 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.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:
9JVC7V10	B1M8B4		MW6-SBB-A1	W07-002	W05160					04/19/2007 10:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7121260	H-3	10028-17-8	1.39E+05	pCi/L	1.2E+03	5.3E+03		2.96E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/22/2007 03:01	I
7121249	BETA	12587-47-2	1.46E+04	pCi/L	1.8E+02	3.1E+03		3.91E+01	100.0	9310_ALPHABETA	9.90E-03	L	05/30/2007 19:29	I
7121251	Uranium	7440-61-1	2.39E+00	ug/L	2.5E-01	2.5E-01		8.15E-02		UTOT_KPA	2.57E-02	ML	05/31/2007 15:18	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JVC7V20	B1M8B4		MW6-SBB-A1	W07-002	W05160					04/19/2007 10:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7156527	ALPHA	12587-46-1	5.84E+00	pCi/L	1.0E+01	1.0E+01	U	2.04E+01	100.0	9310_ALPHABETA	7.80E-03	L	06/07/2007 11:54	I
7121252	BE-7	13966-02-4	-2.21E+00	pCi/L	3.9E+01	3.9E+01	U	6.61E+01		GAMMALL_GS	1.9206E+00	L	06/05/2007 16:53	I
7121252	CO-60	10198-40-0	3.90E+02	pCi/L	5.3E+01	5.3E+01		4.68E+00		GAMMALL_GS	1.9206E+00	L	06/05/2007 16:53	I
7121252	CS-134	13967-70-9	-1.53E-01	pCi/L	4.0E+00	4.0E+00	U	6.92E+00		GAMMALL_GS	1.9206E+00	L	06/05/2007 16:53	I
7121252	CS-137	10045-97-3	2.35E+00	pCi/L	3.3E+00	3.3E+00	U	5.93E+00		GAMMALL_GS	1.9206E+00	L	06/05/2007 16:53	I
7121252	EU-152	14683-23-9	-2.80E+00	pCi/L	6.0E+00	6.0E+00	U	1.03E+01		GAMMALL_GS	1.9206E+00	L	06/05/2007 16:53	I
7121252	EU-154	15585-10-1	6.78E+00	pCi/L	6.9E+00	6.9E+00	U	1.38E+01		GAMMALL_GS	1.9206E+00	L	06/05/2007 16:53	I
7121252	EU-155	14391-16-3	1.94E+00	pCi/L	5.2E+00	5.2E+00	U	9.17E+00		GAMMALL_GS	1.9206E+00	L	06/05/2007 16:53	I
7121252	K-40	13966-00-2	6.32E+01	pCi/L	4.9E+01	4.9E+01		3.47E+01		GAMMALL_GS	1.9206E+00	L	06/05/2007 16:53	I
7121252	RU-106	13967-48-1	2.28E+01	pCi/L	2.8E+01	2.8E+01	U	5.12E+01		GAMMALL_GS	1.9206E+00	L	06/05/2007 16:53	I
7121252	SB-125	14234-35-6	6.34E-01	pCi/L	6.6E+00	6.6E+00	U	1.15E+01		GAMMALL_GS	1.9206E+00	L	06/05/2007 16:53	I
7151386	TC-99	14133-76-7	5.86E+04	pCi/L	1.3E+02	3.5E+03		9.78E+00	100.0	TC99_ETVDSK_LS	1.251E-01	L	06/02/2007 19:58	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JVF8310	B1MPM2		MW6-SBB-A1	S07-004	W05160					04/20/2007 12:03

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7121260	H-3	10028-17-8	1.04E+03	pCi/L	1.6E+02	1.8E+02		2.96E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/22/2007 05:44	I
7121249	BETA	12587-47-2	1.51E+01	pCi/L	2.2E+00	3.5E+00		2.74E+00	100.0	9310_ALPHABETA	1.987E-01	L	05/30/2007 20:10	I
7121257	I-129L	15046-84-1	6.82E+00	pCi/L	9.2E-01	9.2E-01		3.09E-01	98.6	I129LL_SEP_LEPS	3.9524E+00	L	06/08/2007 12:40	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:
9JVF8320	B1MPM2		MW6-SBB-A1	S07-004	W05160					04/20/2007 12:03

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.

6/11/2007 2:15:30 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35557 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7156527	ALPHA	12587-46-1	1.65E+00	pCi/L	1.1E+00	1.1E+00		1.24E+00	100.0	9310_ALPHABETA	1.979E-01	L	06/07/2007 14:12	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:
9JVF8V10	B1MPL8		MW6-SBB-A1	S07-004	W05160					04/20/2007 11:04

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7121260	H-3	10028-17-8	4.24E+04	pCi/L	6.7E+02	1.7E+03		2.96E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/22/2007 04:22	I
7121249	BETA	12587-47-2	3.09E+01	pCi/L	2.8E+00	6.1E+00		2.83E+00	100.0	9310_ALPHABETA	2.011E-01	L	05/30/2007 20:10	I
7121257	I-129L	15046-84-1	2.68E+00	pCi/L	4.8E-01	4.8E-01		2.83E-01	102.4	I129LL_SEP_LEPS	3.9467E+00	L	06/08/2007 12:36	I
7121255	SR-90	10098-97-2	1.47E-01	pCi/L	3.0E-01	3.0E-01	U	6.29E-01	70.6	SRISO_SEP_PRE	1.0021E+00	L	05/31/2007 06:51	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JVF8V20	B1MPL8		MW6-SBB-A1	S07-004	W05160					04/20/2007 11:04

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7156527	ALPHA	12587-46-1	1.86E+00	pCi/L	1.2E+00	1.3E+00		1.25E+00	100.0	9310_ALPHABETA	1.993E-01	L	06/07/2007 14:12	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:
9JVF9M10	B1MR28		MW6-SBB-A1	S07-004	W05160					04/20/2007 13:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7121252	BE-7	13966-02-4	-8.27E+00	pCi/L	3.3E+01	3.3E+01	U	5.73E+01		GAMMALL_GS	2.0004E+00	L	05/31/2007 16:53	I
7121252	CO-60	10198-40-0	8.94E+00	pCi/L	4.5E+00	4.5E+00	U	9.87E+00		GAMMALL_GS	2.0004E+00	L	05/31/2007 16:53	I
7121252	CS-134	13967-70-9	-2.39E-01	pCi/L	3.2E+00	3.2E+00	U	5.80E+00		GAMMALL_GS	2.0004E+00	L	05/31/2007 16:53	I
7121252	CS-137	10045-97-3	3.80E-01	pCi/L	2.9E+00	2.9E+00	U	5.32E+00		GAMMALL_GS	2.0004E+00	L	05/31/2007 16:53	I
7121252	EU-152	14683-23-9	4.97E-01	pCi/L	7.9E+00	7.9E+00	U	1.41E+01		GAMMALL_GS	2.0004E+00	L	05/31/2007 16:53	I
7121252	EU-154	15585-10-1	-2.09E+00	pCi/L	7.4E+00	7.4E+00	U	1.35E+01		GAMMALL_GS	2.0004E+00	L	05/31/2007 16:53	I
7121252	EU-155	14391-16-3	-2.93E+00	pCi/L	5.2E+00	5.2E+00	U	8.63E+00		GAMMALL_GS	2.0004E+00	L	05/31/2007 16:53	I
7121252	K-40	13966-00-2	-6.85E+01	pCi/L	6.4E+01	6.4E+01	U	1.34E+02		GAMMALL_GS	2.0004E+00	L	05/31/2007 16:53	I
7121252	RU-106	13967-48-1	-3.04E+00	pCi/L	2.6E+01	2.6E+01	U	4.71E+01		GAMMALL_GS	2.0004E+00	L	05/31/2007 16:53	I
7121252	SB-125	14234-35-6	-1.31E+00	pCi/L	8.5E+00	8.5E+00	U	1.48E+01		GAMMALL_GS	2.0004E+00	L	05/31/2007 16:53	I
7121257	I-129L	15046-84-1	2.12E+00	pCi/L	4.4E-01	4.4E-01		2.01E-01	99.2	I129LL_SEP_LEPS	3.9201E+00	L	06/08/2007 12:40	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:
9JVF9M20	B1MR28		MW6-SBB-A1	S07-004	W05160					04/20/2007 13:00

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

6/11/2007 2:15:30 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35557 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7151386	TC-99	14133-76-7	4.48E+03	pCi/L	3.6E+01	2.7E+02		9.75E+00	100.0	TC99_ETVDSK_LS	1.254E-01	L	06/02/2007 19:58	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JVGE610	B1MR32		MW6-SBB-A1	S07-004	W05160					04/20/2007 12:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7121252	BE-7	13966-02-4	-9.59E+00	pCi/L	2.6E+01	2.6E+01	U	4.43E+01		GAMMALL_GS	2.0007E+00	L	05/31/2007 16:54	I
7121252	CO-60	10198-40-0	7.29E-01	pCi/L	2.3E+00	2.3E+00	U	4.61E+00		GAMMALL_GS	2.0007E+00	L	05/31/2007 16:54	I
7121252	CS-134	13967-70-9	7.82E-01	pCi/L	2.4E+00	2.4E+00	U	4.57E+00		GAMMALL_GS	2.0007E+00	L	05/31/2007 16:54	I
7121252	CS-137	10045-97-3	-1.11E+00	pCi/L	2.2E+00	2.2E+00	U	3.78E+00		GAMMALL_GS	2.0007E+00	L	05/31/2007 16:54	I
7121252	EU-152	14683-23-9	-1.05E+00	pCi/L	6.2E+00	6.2E+00	U	1.07E+01		GAMMALL_GS	2.0007E+00	L	05/31/2007 16:54	I
7121252	EU-154	15585-10-1	-1.85E+00	pCi/L	6.6E+00	6.6E+00	U	1.20E+01		GAMMALL_GS	2.0007E+00	L	05/31/2007 16:54	I
7121252	EU-155	14391-16-3	9.02E-01	pCi/L	6.2E+00	6.2E+00	U	1.09E+01		GAMMALL_GS	2.0007E+00	L	05/31/2007 16:54	I
7121252	K-40	13966-00-2	-5.43E+01	pCi/L	6.7E+01	6.7E+01	U	1.44E+02		GAMMALL_GS	2.0007E+00	L	05/31/2007 16:54	I
7121252	RU-106	13967-48-1	-1.04E+01	pCi/L	2.2E+01	2.2E+01	U	3.76E+01		GAMMALL_GS	2.0007E+00	L	05/31/2007 16:54	I
7121252	SB-125	14234-35-6	1.10E+00	pCi/L	5.7E+00	5.7E+00	U	1.04E+01		GAMMALL_GS	2.0007E+00	L	05/31/2007 16:54	I
7121255	SR-90	10098-97-2	2.71E-01	pCi/L	3.0E-01	3.2E-01	U	6.50E-01	64.1	SRISO_SEP_PRE	1.0027E+00	L	05/31/2007 06:51	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JVGE710	B1MR33		MW6-SBB-A1	S07-004	W05160					04/20/2007 12:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7121252	BE-7	13966-02-4	-6.76E-01	pCi/L	2.0E+01	2.0E+01	U	3.54E+01		GAMMALL_GS	1.9964E+00	L	05/31/2007 16:55	I
7121252	CO-60	10198-40-0	4.28E-01	pCi/L	1.5E+00	1.5E+00	U	3.12E+00		GAMMALL_GS	1.9964E+00	L	05/31/2007 16:55	I
7121252	CS-134	13967-70-9	-2.51E-01	pCi/L	1.8E+00	1.8E+00	U	3.32E+00		GAMMALL_GS	1.9964E+00	L	05/31/2007 16:55	I
7121252	CS-137	10045-97-3	-1.28E+00	pCi/L	1.7E+00	1.7E+00	U	2.69E+00		GAMMALL_GS	1.9964E+00	L	05/31/2007 16:55	I
7121252	EU-152	14683-23-9	-5.98E-01	pCi/L	3.3E+00	3.3E+00	U	6.02E+00		GAMMALL_GS	1.9964E+00	L	05/31/2007 16:55	I
7121252	EU-154	15585-10-1	1.86E+00	pCi/L	5.3E+00	5.3E+00	U	1.06E+01		GAMMALL_GS	1.9964E+00	L	05/31/2007 16:55	I
7121252	EU-155	14391-16-3	-1.72E+00	pCi/L	3.0E+00	3.0E+00	U	5.20E+00		GAMMALL_GS	1.9964E+00	L	05/31/2007 16:55	I
7121252	K-40	13966-00-2	-2.37E+01	pCi/L	3.2E+01	3.2E+01	U	6.92E+01		GAMMALL_GS	1.9964E+00	L	05/31/2007 16:55	I
7121252	RU-106	13967-48-1	-7.20E+00	pCi/L	1.5E+01	1.5E+01	U	2.52E+01		GAMMALL_GS	1.9964E+00	L	05/31/2007 16:55	I
7121252	SB-125	14234-35-6	8.98E-01	pCi/L	4.2E+00	4.2E+00	U	7.71E+00		GAMMALL_GS	1.9964E+00	L	05/31/2007 16:55	I
7121255	SR-90	10098-97-2	1.13E-01	pCi/L	3.6E-01	3.8E-01	U	8.12E-01	64.9	SRISO_SEP_PRE	9.925E-01	L	05/31/2007 06:51	I

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

6/11/2007 2:15:30 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35557 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.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:
9JVGFA10	B1MRK1		MW6-SBB-A1	S07-004	W05160					04/20/2007 09:28

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7121260	H-3	10028-17-8	6.57E+02	pCi/L	1.5E+02	1.6E+02		2.98E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/22/2007 07:06	I
7121249	BETA	12587-47-2	1.05E+01	pCi/L	1.9E+00	2.4E+00		2.61E+00	100.0	9310_ALPHABETA	2.016E-01	L	05/30/2007 20:10	I
7121257	I-129L	15046-84-1	1.32E+00	pCi/L	4.2E-01	4.2E-01		2.87E-01	96.8	I129LL_SEP_LEPS	3.8969E+00	L	06/08/2007 14:39	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JVGFA20	B1MRK1		MW6-SBB-A1	S07-004	W05160					04/20/2007 09:28

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7156527	ALPHA	12587-46-1	1.09E+00	pCi/L	8.5E-01	8.7E-01	U	1.09E+00	100.0	9310_ALPHABETA	2.005E-01	L	06/07/2007 14:12	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:
9JVGFH10	B1MRL3		MW6-SBB-A1	S07-004	W05160					04/20/2007 10:24

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7121260	H-3	10028-17-8	2.38E+04	pCi/L	5.1E+02	1.0E+03		2.97E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/22/2007 08:28	I
7121249	BETA	12587-47-2	7.76E+00	pCi/L	1.8E+00	2.1E+00		2.92E+00	100.0	9310_ALPHABETA	1.999E-01	L	05/30/2007 20:10	I
7121257	I-129L	15046-84-1	3.89E+00	pCi/L	6.4E-01	6.4E-01		3.04E-01	100.3	I129LL_SEP_LEPS	3.9564E+00	L	06/08/2007 14:42	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:
9JVGFH20	B1MRL3		MW6-SBB-A1	S07-004	W05160					04/20/2007 10:24

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7156527	ALPHA	12587-46-1	2.33E+00	pCi/L	1.5E+00	1.6E+00		1.65E+00	100.0	9310_ALPHABETA	1.984E-01	L	06/07/2007 14:12	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:
9JVGGC10	B1MN38		MW6-SBB-A1	I07-038	W05160					04/20/2007 11:51

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7121257	I-129L	15046-84-1	-1.91E-02	pCi/L	1.0E-01	1.0E-01	U	1.88E-01	104.9	I129LL_SEP_LEPS	3.9507E+00	L	06/08/2007 14:44	I
7121255	SR-90	10098-97-2	2.41E-01	pCi/L	2.9E-01	2.9E-01	U	5.99E-01	70.1	SRISO_SEP_PRE	1.0025E+00	L	05/31/2007 06:51	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JVGGD10	B1MN37		MW6-SBB-A1	I07-038	W05160					04/20/2007 11:51

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7121257	I-129L	15046-84-1	-2.51E-02	pCi/L	1.4E-01	1.4E-01	U	2.29E-01	104.9	I129LL_SEP_LEPS	3.9062E+00	L	06/08/2007 16:35	I

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

7121255	SR-90	10098-97-2	7.67E-02	pCi/L	2.3E-01	2.7E-01	U	5.83E-01	72.6	SRISO_SEP_PRE	1.005E+00	L	05/31/2007	06:51	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JVGGR10	B1MCV2		MW6-SBB-A1	A07-003	W05160					04/20/2007 07:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7121260	H-3	10028-17-8	7.15E+01	pCi/L	1.2E+02	1.4E+02	U	2.98E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/22/2007 09:49	I
7121257	I-129L	15046-84-1	-1.75E-02	pCi/L	1.2E-01	1.2E-01	U	2.20E-01	97.6	I129LL_SEP_LEPS	3.9475E+00	L	06/08/2007 16:36	I
7121251	Uranium	7440-61-1	0.00E+00	ug/L	0.0E+00	0.0E+00	U	8.38E-02		UTOT_KPA	2.50E-02	ML	05/31/2007 15:30	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JVGGR20	B1MCV2		MW6-SBB-A1	A07-003	W05160					04/20/2007 07:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7151386	TC-99	14133-76-7	1.71E+00	pCi/L	4.1E+00	5.8E+00	U	9.82E+00	100.0	TC99_ETVDSK_LS	1.248E-01	L	06/02/2007 19:58	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JVGGX10	B1MCV1		MW6-SBB-A1	A07-003	W05160					04/20/2007 09:15

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7121260	H-3	10028-17-8	1.29E+02	pCi/L	1.3E+02	1.4E+02	U	2.97E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/22/2007 11:11	I
7121257	I-129L	15046-84-1	5.21E-02	pCi/L	1.4E-01	1.4E-01	U	2.70E-01	98.1	I129LL_SEP_LEPS	3.944E+00	L	06/08/2007 18:24	I
7121251	Uranium	7440-61-1	1.79E+00	ug/L	1.8E-01	1.8E-01		7.54E-02		UTOT_KPA	2.78E-02	ML	05/31/2007 15:34	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JVGGX20	B1MCV1		MW6-SBB-A1	A07-003	W05160					04/20/2007 09:15

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7151386	TC-99	14133-76-7	1.55E+01	pCi/L	4.5E+00	6.6E+00		9.77E+00	100.0	TC99_ETVDSK_LS	1.254E-01	L	06/02/2007 19:58	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JVHL310	B1MMF2		MW6-SBB-A1	A07-004	W05160					04/23/2007 12:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7121260	H-3	10028-17-8	2.79E+02	pCi/L	1.3E+02	1.5E+02	U	2.97E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/22/2007 12:33	I
7121257	I-129L	15046-84-1	1.59E+00	pCi/L	3.3E-01	3.3E-01	U	6.00E-01	100.3	I129LL_SEP_LEPS	3.9255E+00	L	06/08/2007 18:26	I
7121251	Uranium	7440-61-1	3.71E+00	ug/L	3.8E-01	3.8E-01		8.32E-02		UTOT_KPA	2.52E-02	ML	05/31/2007 15:36	I

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

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

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35557 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.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:
9JVHL320	B1MMF2		MW6-SBB-A1	A07-004	W05160					04/23/2007 12:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7151386	TC-99	14133-76-7	9.51E+01	pCi/L	6.6E+00	1.1E+01		9.81E+00	100.0	TC99_ETVDSK_LS	1.249E-01	L	06/02/2007 19:58	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JVHLE10	B1MNM3		MW6-SBB-A1	W07-004	W05160					04/23/2007 11:17

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7121249	BETA	12587-47-2	9.74E+00	pCi/L	2.0E+00	2.7E+00		2.93E+00	100.0	9310_ALPHABETA	1.986E-01	L	05/30/2007 20:10	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JVHLE20	B1MNM3		MW6-SBB-A1	W07-004	W05160					04/23/2007 11:17

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7156527	ALPHA	12587-46-1	2.30E+00	pCi/L	1.6E+00	1.7E+00		2.10E+00	100.0	9310_ALPHABETA	1.787E-01	L	06/07/2007 14:12	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:
9JVHMA10	B1MMF5		MW6-SBB-A1	A07-004	W05160					04/23/2007 11:17

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7121260	H-3	10028-17-8	4.04E+02	pCi/L	1.4E+02	1.5E+02		2.96E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/22/2007 18:00	I
7121257	I-129L	15046-84-1	1.77E+00	pCi/L	4.1E-01	4.1E-01		2.45E-01	98.9	I129LL_SEP_LEPS	3.8634E+00	L	06/08/2007 18:27	I
7121251	Uranium	7440-61-1	3.07E+00	ug/L	3.2E-01	3.2E-01		8.48E-02		UTOT_KPA	2.47E-02	ML	05/31/2007 15:39	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JVHMA20	B1MMF5		MW6-SBB-A1	A07-004	W05160					04/23/2007 11:17

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7151386	TC-99	14133-76-7	1.14E+00	pCi/L	4.1E+00	5.9E+00	U	9.89E+00	100.0	TC99_ETVDSK_LS	1.237E-01	L	06/02/2007 19:58	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JVHP010	B1MR42		MW6-SBB-A1	S07-004	W05160					04/23/2007 12:46

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7121252	BE-7	13966-02-4	-3.22E+00	pCi/L	2.6E+01	2.6E+01	U	4.73E+01		GAMMALL_GS	1.991E+00	L	05/31/2007 16:55	I
7121252	CO-60	10198-40-0	-4.02E-01	pCi/L	3.1E+00	3.1E+00	U	5.71E+00		GAMMALL_GS	1.991E+00	L	05/31/2007 16:55	I
7121252	CS-134	13967-70-9	1.69E+00	pCi/L	2.7E+00	2.7E+00	U	5.56E+00		GAMMALL_GS	1.991E+00	L	05/31/2007 16:55	I
7121252	CS-137	10045-97-3	2.59E-01	pCi/L	2.0E+00	2.0E+00	U	3.94E+00		GAMMALL_GS	1.991E+00	L	05/31/2007 16:55	I
7121252	EU-152	14683-23-9	-4.07E-01	pCi/L	5.7E+00	5.7E+00	U	1.03E+01		GAMMALL_GS	1.991E+00	L	05/31/2007 16:55	I

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

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35557 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

7121252	EU-154	15585-10-1	1.09E+00	pCi/L	7.9E+00	7.9E+00	U	1.56E+01		GAMMALL_GS	1.991E+00	L	05/31/2007	16:55	I
7121252	EU-155	14391-16-3	4.29E+00	pCi/L	5.3E+00	5.3E+00	U	1.00E+01		GAMMALL_GS	1.991E+00	L	05/31/2007	16:55	I
7121252	K-40	13966-00-2	-5.63E+01	pCi/L	5.4E+01	5.4E+01	U	1.16E+02		GAMMALL_GS	1.991E+00	L	05/31/2007	16:55	I
7121252	RU-106	13967-48-1	-7.52E+00	pCi/L	2.2E+01	2.2E+01	U	3.84E+01		GAMMALL_GS	1.991E+00	L	05/31/2007	16:55	I
7121252	SB-125	14234-35-6	-1.18E-01	pCi/L	5.0E+00	5.0E+00	U	9.15E+00		GAMMALL_GS	1.991E+00	L	05/31/2007	16:55	I
7121255	SR-90	10098-97-2	-6.18E-02	pCi/L	2.5E-01	2.6E-01	U	5.79E-01	73.2	SRISO_SEP_PRE	1.0064E+00	L	05/31/2007	06:51	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JVHP020	B1MR42		MW6-SBB-A1	S07-004	W05160					04/23/2007 12:46

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7151386	TC-99	14133-76-7	4.23E+00	pCi/L	4.2E+00	5.9E+00	U	9.72E+00	100.0	TC99_ETVDSK_LS	1.261E-01	L	06/02/2007 19:58	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JVHQJ10	B1MR99		MW6-SBB-A1	S07-004	W05160					04/23/2007 10:23

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7121257	I-129L	15046-84-1	9.19E-01	pCi/L	2.5E-01	2.5E-01	U	4.43E-01	98.6	I129LL_SEP_LEPS	3.943E+00	L	06/08/2007 20:07	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:
9JVHQJ20	B1MR99		MW6-SBB-A1	S07-004	W05160					04/23/2007 10:23

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7145450	H-3	10028-17-8	4.34E+02	pCi/L	1.4E+02	1.6E+02		2.91E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/28/2007 04:41	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:
9JVHQT10	B1MRB4		MW6-SBB-A1	S07-004	W05160					04/23/2007 13:24

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7121260	H-3	10028-17-8	6.63E+04	pCi/L	8.3E+02	2.6E+03		2.96E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/22/2007 22:05	I
7121257	I-129L	15046-84-1	3.67E-02	pCi/L	1.3E-01	1.3E-01	U	2.48E-01	97.0	I129LL_SEP_LEPS	3.9543E+00	L	06/08/2007 20:10	I
7121255	SR-90	10098-97-2	2.80E-01	pCi/L	2.4E-01	2.4E-01	U	4.59E-01	68.7	SRISO_SEP_PRE	1.0054E+00	L	05/31/2007 07:46	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:
9JVXT520	B1MF88		MW6-SBB-A1	S07-003	W05160					04/26/2007 12:48

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7149236	H-3	10028-17-8	8.76E+01	pCi/L	8.3E+00	1.8E+01		5.61E+00	100.0	TRITIUM_ELECT_L	1.50E-01	L	05/29/2007 22:07	I

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

6/11/2007 2:15:31 PM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35557 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.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:
9JVXTX20	B1MPN0		MW6-SBB-A1	S07-004	W05160					04/26/2007 11:53

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7149236	H-3	10028-17-8	1.42E+02	pCi/L	1.0E+01	2.7E+01		5.58E+00	100.0	TRITIUM_ELECT_L	1.50E-01	L	05/29/2007 19:31	I

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

Monday, June 11, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id:	J0CL81AB	**Sdg/Rept Nbr:**	W05160 35557	**Collection Date:**	04/19/2007 10:45
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	**BLK**	**Received Date:**	04/19/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7156527	ALPHA	2.37E-01	pCi/L	2.3E-01	U	3.73E-01	100.0		9310_ALPHAB	2.005E-01	06/07/2007				D
BLK	12587-46-1			2.2E-01						L	11:54				

STL Richland

rptFeadRadEdd v3.68

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

Monday, June 11, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id: JV1061AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05160 35557
Matrix: WATER WATER
QC Type: BLK

Collection Date: 04/20/2007 11:51
Sample On Date:
Received Date: 04/20/2007

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
7121255	SR-90	5.11E-02	pCi/L	2.6E-01	U	5.66E-01	59.1		SRISO_SEP_P	9.997E-01	05/31/2007				D
BLK	10098-97-2			2.6E-01						L	07:46				

STL Richland
rptFeadRadEdd v3.68

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

Monday, June 11, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id: JV10C1AB **Sdg/Rept Nbr:** W05160 35557 **Collection Date:** 04/23/2007 12:46

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 04/23/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7121252	BE-7	5.22E-01	pCi/L	1.6E+01	U	2.89E+01			GAMMALL_GS	1.9981E+00	05/31/2007				D
BLK	13966-02-4			1.6E+01						L	16:56				
7121252	CO-60	5.69E-01	pCi/L	1.6E+00	U	3.36E+00			GAMMALL_GS	1.9981E+00	05/31/2007				D
BLK	10198-40-0			1.6E+00						L	16:56				
7121252	CS-134	1.12E+00	pCi/L	1.7E+00	U	3.49E+00			GAMMALL_GS	1.9981E+00	05/31/2007				D
BLK	13967-70-9			1.7E+00						L	16:56				
7121252	CS-137	-4.90E-02	pCi/L	1.5E+00	U	2.74E+00			GAMMALL_GS	1.9981E+00	05/31/2007				D
BLK	10045-97-3			1.5E+00						L	16:56				
7121252	EU-152	-8.79E-01	pCi/L	3.5E+00	U	6.15E+00			GAMMALL_GS	1.9981E+00	05/31/2007				D
BLK	14683-23-9			3.5E+00						L	16:56				
7121252	EU-154	1.20E+00	pCi/L	4.6E+00	U	9.47E+00			GAMMALL_GS	1.9981E+00	05/31/2007				D
BLK	15585-10-1			4.6E+00						L	16:56				
7121252	EU-155	-2.11E-01	pCi/L	3.3E+00	U	5.94E+00			GAMMALL_GS	1.9981E+00	05/31/2007				D
BLK	14391-16-3			3.3E+00						L	16:56				
7121252	K-40	-1.66E+01	pCi/L	3.2E+01	U	7.06E+01			GAMMALL_GS	1.9981E+00	05/31/2007				D
BLK	13966-00-2			3.2E+01						L	16:56				
7121252	RU-106	1.00E+01	pCi/L	1.5E+01	U	2.94E+01			GAMMALL_GS	1.9981E+00	05/31/2007				D
BLK	13967-48-1			1.5E+01						L	16:56				
7121252	SB-125	-3.79E-01	pCi/L	4.0E+00	U	7.19E+00			GAMMALL_GS	1.9981E+00	05/31/2007				D
BLK	14234-35-6			4.0E+00						L	16:56				

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

Monday, June 11, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id:	JV10H2AB	**Sdg/Rept Nbr:**	W05160 35557	**Collection Date:**	04/20/2007 07:30
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	04/20/2007

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
7151386	TC-99	1.12E+00	pCi/L	5.8E+00	U	9.80E+00	100.0		TC99_ETVDSK	1.25E-01	06/02/2007				D
BLK	14133-76-7			4.1E+00						L	19:58				

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.

Monday, June 11, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id:	JV11P1AB	**Sdg/Rept Nbr:**	W05160 35557	**Collection Date:**	04/20/2007 11:51
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	04/20/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7121257	I-129L	3.67E-02	pCi/L	1.1E-01	U	2.10E-01	101.4		I129LL_SEP_L	3.9751E+00	06/08/2007				D
BLK	15046-84-1			1.1E-01						L	20:10				

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.

Monday, June 11, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id:	JV12A2AB	**Sdg/Rept Nbr:**	W05160 35557	**Collection Date:**	04/26/2007 11:53
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	04/26/2007

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
7149236	H-3	5.95E+00	pCi/L	6.1E+00	U	5.64E+00	100.0		TRITIUM_ELE	1.50E-01	05/29/2007				D
BLK	10028-17-8			4.4E+00						L	16:56				

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

Monday, June 11, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id:	JV12J1AB	**Sdg/Rept Nbr:**	W05160	35557	**Collection Date:** 04/23/2007 10:23
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**BLK**		**Received Date:** 04/23/2007

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
7121260	H-3	-2.46E+00	pCi/L	1.3E+02	U	2.96E+02	100.0		906.0_H3_LSC	5.00E-03	05/22/2007				D
BLK	10028-17-8			1.2E+02						L	15:16				

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.

Monday, June 11, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id:	JV12J1DX	**Sdg/Rept Nbr:**	W05160 35557	**Collection Date:**	04/23/2007 10:23
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	04/23/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7121260	H-3	7.02E+01	pCi/L	1.4E+02	U	2.99E+02	100.0		906.0_H3_LSC	5.00E-03	05/22/2007				D
BLK	10028-17-8			1.2E+02						L	00:16				

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.

Monday, June 11, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id: JV12J2AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05160 35557
Matrix: WATER WATER
QC Type: BLK

Collection Date: 04/23/2007 10:23
Sample On Date:
Received Date: 04/23/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7145450	H-3	1.29E+02	pCi/L	1.5E+02	U	2.90E+02	100.0		906.0_H3_LSC	5.00E-03	05/28/2007				D
BLK	10028-17-8			1.2E+02						L	01:57				

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.

Monday, June 11, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id:	JV12J2DB	**Sdg/Rept Nbr:**	W05160	35557	**Collection Date:** 04/23/2007 10:23
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 04/23/2007

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
7145450	H-3	1.59E+02	pCi/L	1.5E+02	U	2.94E+02	100.0		906.0_H3_LSC	5.00E-03	05/27/2007				D
BLK	10028-17-8			1.3E+02						L	23:14				

STL Richland

rptFeadRadEdd v3.68

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

Monday, June 11, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id:	JV1X51AB	**Sdg/Rept Nbr:**	W05160	35557	**Collection Date:** 04/23/2007 11:17
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 04/23/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7121249	BETA	3.01E-01	pCi/L	9.3E-01	U	1.86E+00	100.0		9310_ALPHAB	2.015E-01	05/30/2007				D
BLK	12587-47-2			9.3E-01						L	19:29				

STL Richland

rptFeadRadEdd v3.68

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

Monday, June 11, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id: JV1X81AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05160 35557
Matrix: WATER WATER
QC Type: BLK

Collection Date: 04/19/2007 10:45
Sample On Date:
Received Date: 04/19/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7121251	Uranium	1.08E-02	ug/L	1.4E-03	U	8.19E-02			UTOT_KPA	2.56E-02	05/31/2007				D
BLK	7440-61-1			1.4E-03						ML	15:07				

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.

Monday, June 11, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id:	J0CL81CS	**Sdg/Rept Nbr:**	W05160 35557	**Collection Date:**	04/19/2007 10:45
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	04/19/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7156527	ALPHA	1.85E+01	pCi/L	4.5E+00		3.51E-01	100.0	2.25E+01	9310_ALPHAB	2.011E-01	06/07/2007			70	D
BS	12587-46-1			1.4E+00				82.5		L	11:54			130	

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

Monday, June 11, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id: JV1061CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05160 35557
Matrix: WATER WATER
QC Type: BS

Collection Date: 04/20/2007 11:51
Sample On Date:
Received Date: 04/20/2007

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
7121255	SR-90	1.49E+01	pCi/L	2.4E+00		6.00E-01	57.6	1.38E+01	SRISO_SEP_P	9.985E-01	05/31/2007			70	D
BS	10098-97-2			1.0E+00				107.5		L	07:46			130	

STL Richland
rptFeadRadEdd v3.68

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

Monday, June 11, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id: JV10C1CS **Sdg/Rept Nbr:** W05160 35557 **Collection Date:** 04/23/2007 12:46

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 04/23/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7121252	CO-60	4.50E+01	pCi/L	1.0E+01		3.57E+00		3.73E+01	GAMMALL_GS	1.9956E+00	05/31/2007			75	D
BS	10198-40-0			1.0E+01				120.6		L	18:46			125	
7121252	CS-137	2.01E+01	pCi/L	7.7E+00		4.77E+00		2.49E+01	GAMMALL_GS	1.9956E+00	05/31/2007			70	D
BS	10045-97-3			7.7E+00				81.0		L	18:46			130	
7121252	EU-152	8.11E+01	pCi/L	1.8E+01	U	2.76E+01		7.66E+01	GAMMALL_GS	1.9956E+00	05/31/2007			70	D
BS	14683-23-9			1.8E+01				105.9		L	18:46			130	

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

Monday, June 11, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id: JV10H2CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05160 35557
Matrix: WATER WATER
QC Type: BS

Collection Date: 04/20/2007 07:30
Sample On Date:
Received Date: 04/20/2007

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
7151386	TC-99	5.10E+02	pCi/L	3.6E+01		9.55E+00	100.0	5.24E+02	TC99_ETVDSK	1.284E-01	06/02/2007			75	D
BS	14133-76-7			1.3E+01				97.4		L	19:58			125	

STL Richland
rptFeadRadEdd v3.68

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

Monday, June 11, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id: JV11P1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05160 35557
Matrix: WATER WATER
QC Type: BS

Collection Date: 04/20/2007 11:51
Sample On Date:
Received Date: 04/20/2007

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
7121257	I-129L	8.54E+00	pCi/L	1.1E+00		3.68E-01	102.2	9.65E+00	I129LL_SEP_L	3.9826E+00	06/08/2007			70	D
BS	15046-84-1			1.1E+00				88.5		L	21:54			130	

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

Monday, June 11, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id: JV12A2CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05160 35557
Matrix: WATER WATER
QC Type: BS

Collection Date: 04/26/2007 11:53
Sample On Date:
Received Date: 04/26/2007

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
7149236	H-3	4.48E+02	pCi/L	7.9E+01		5.64E+00	100.0	4.57E+02	TRITIUM_ELE	1.5003E-01	05/29/2007			70	D
BS	10028-17-8			1.9E+01				98.1		L	18:14			130	

STL Richland
rptFeadRadEdd v3.68

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

Monday, June 11, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id: JV12J1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05160 35557
Matrix: WATER WATER
QC Type: BS

Collection Date: 04/23/2007 10:23
Sample On Date:
Received Date: 04/23/2007

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
7121260	H-3	2.47E+03	pCi/L	2.4E+02		2.96E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	05/22/2007			75	D
BS	10028-17-8			2.0E+02				90.9		L	16:38			125	

STL Richland
rptFeadRadEdd v3.68

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

Monday, June 11, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id:	JV12J1EM	**Sdg/Rept Nbr:**	W05160 35557	**Collection Date:**	04/23/2007 10:23
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	04/23/2007

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
7121260	H-3	2.59E+03	pCi/L	2.5E+02		3.00E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	05/22/2007			75	D
BS	10028-17-8			2.0E+02				95.1		L	01:39			125	

STL Richland

rptFeadRadEdd v3.68

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

Monday, June 11, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id: JV12J2CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05160 35557
Matrix: WATER WATER
QC Type: BS

Collection Date: 04/23/2007 10:23
Sample On Date:
Received Date: 04/23/2007

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
7145450	H-3	2.63E+03	pCi/L	2.5E+02		2.91E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	05/28/2007			75	D
BS	10028-17-8			2.0E+02				96.5		L	03:19			125	

STL Richland
rptFeadRadEdd v3.68

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

Monday, June 11, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id:	JV12J2ES	**Sdg/Rept Nbr:**	W05160 35557	**Collection Date:**	04/23/2007 10:23
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	04/23/2007

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
7145450	H-3	2.66E+03	pCi/L	2.5E+02		2.94E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	05/28/2007			75	D
BS	10028-17-8			2.0E+02				97.6		L	00:36			125	

STL Richland

rptFeadRadEdd v3.68

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

Monday, June 11, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id: JV1X51CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05160 35557
Matrix: WATER WATER
QC Type: BS

Collection Date: 04/23/2007 11:17
Sample On Date:
Received Date: 04/23/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7121249	BETA	2.41E+01	pCi/L	3.9E+00		1.86E+00	100.0	2.28E+01	9310_ALPHAB	2.001E-01	05/30/2007			70	D
BS	12587-47-2			1.8E+00				105.7		L	19:29			130	

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

Monday, June 11, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id: JV1X81CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05160 35557
Matrix: WATER WATER
QC Type: BS

Collection Date: 04/19/2007 10:45
Sample On Date:
Received Date: 04/19/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7121251	Uranium	3.82E+01	ug/L	4.5E+00		8.25E-02		3.56E+01	UTOT_KPA	2.54E-02	05/31/2007			70	D
BS	7440-61-1			4.5E+00				107.3		ML	15:14			130	

STL Richland
rptFeadRadEdd v3.68

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

Monday, June 11, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id: JV1X81DS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05160 35557
Matrix: WATER WATER
QC Type: BS

Collection Date: 04/19/2007 10:45
Sample On Date:
Received Date: 04/19/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7121251	Uranium	3.70E+00	ug/L	3.8E-01		8.35E-02		3.58E+00	UTOT_KPA	2.51E-02	05/31/2007			70	D
BS	7440-61-1			3.8E-01				103.4		ML	15:16			130	

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

Monday, June 11, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id: JVC7V1HR
Client Id: B1M8B4
Moisture/Solids%*:

Sdg/Rept Nbr: W05160 35557
Matrix: WATER WATER
QC Type: DUP

Collection Date: 04/19/2007 10:45
Sample On Date:
Received Date: 04/19/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-002	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
7121251	Uranium	2.36E+00	ug/L	2.4E-01		8.03E-02			UTOT_KPA	2.61E-02	05/31/2007	1.6	0.2		D
DUP	7440-61-1	2.39E+00		2.4E-01						ML	15:21	20.0	3		

STL Richland
rptFeadRadEdd v3.68

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

Monday, June 11, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id: JVC7V1KR
Client Id: B1M8B4
Moisture/Solids%*:

Sdg/Rept Nbr: W05160 35557
Matrix: WATER WATER
QC Type: DUP

Collection Date: 04/19/2007 10:45
Sample On Date:
Received Date: 04/19/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-002	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
7156527	ALPHA	5.18E+00	pCi/L	7.9E+00	U	1.50E+01	100.0		9310_ALPHAB	7.40E-03	06/07/2007				
DUP	12587-46-1			7.8E+00						L	11:54				D

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

Monday, June 11, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id: JVGGC1DR
Client Id: B1MN38
Moisture/Solids%*:

Sdg/Rept Nbr: W05160 35557
Matrix: WATER WATER
QC Type: DUP

Collection Date: 04/20/2007 11:51
Sample On Date:
Received Date: 04/20/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-038	MW6-SBB-A19981								CI	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7121257	I-129L	-5.83E-02	pCi/L	1.3E-01	U	2.21E-01	102.2		I129LL_SEP_L	3.9041E+00	06/08/2007	0.0	0.4		D
DUP	15046-84-1	-1.91E-02		1.3E-01						L	16:32	20.0	3		

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

Monday, June 11, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id:	JVGGD1DR	**Sdg/Rept Nbr:**	W05160 35557	**Collection Date:**	04/20/2007 11:51
Client Id:	B1MN37	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	04/20/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-038	MW6-SBB-A19981								CJ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7121255	SR-90	8.08E-02	pCi/L	2.7E-01	U	5.86E-01	68.5		SRISO_SEP_P	9.829E-01	05/31/2007	5.2	0.		D
DUP	10098-97-2	7.67E-02		2.3E-01						L	06:51	20.0	3		

STL Richland

rptFeadRadEdd v3.68

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

Monday, June 11, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id:	JVGGR2FR	**Sdg/Rept Nbr:**	W05160	35557	**Collection Date:** 04/20/2007 07:30
Client Id:	B1MCV2	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 04/20/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A07-003	MW6-SBB-A19981								CK	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7151386	TC-99	-5.83E-01	pCi/L	5.6E+00	U	9.59E+00	100.0		TC99_ETVDSK	1.277E-01	06/02/2007	407.8	0.6		D
DUP	14133-76-7	1.71E+00		3.9E+00						L	19:58	20.0	3		

STL Richland

rptFeadRadEdd v3.68

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

Monday, June 11, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id: JVHLE1ER
Client Id: B1MNM3
Moisture/Solids%*:

Sdg/Rept Nbr: W05160 35557
Matrix: WATER WATER
QC Type: DUP

Collection Date: 04/23/2007 11:17
Sample On Date:
Received Date: 04/23/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-004	MW6-SBB-A19981								CN	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7121249	BETA	9.85E+00	pCi/L	2.3E+00		2.87E+00	100.0		9310_ALPHAB	1.982E-01	05/31/2007	1.2	0.1		D
DUP	12587-47-2	9.74E+00		1.9E+00						L	07:06	20.0	3		

STL Richland
rptFeadRadEdd v3.68

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

Monday, June 11, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id: JVHP01ER
Client Id: B1MR42
Moisture/Solids%*:

Sdg/Rept Nbr: W05160 35557
Matrix: WATER WATER
QC Type: DUP

Collection Date: 04/23/2007 12:46
Sample On Date:
Received Date: 04/23/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-004	MW6-SBB-A19981								CO	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7121252	BE-7	5.35E+00	pCi/L	2.7E+01	U	5.01E+01			GAMMALL_GS	1.9891E+00	05/31/2007	804.1	0.5		D
DUP	13966-02-4	-3.22E+00		2.7E+01						L	16:51	20.0	3		
7121252	CO-60	-5.86E-01	pCi/L	2.4E+00	U	4.55E+00			GAMMALL_GS	1.9891E+00	05/31/2007	0.0	0.1		D
DUP	10198-40-0	-4.02E-01		2.4E+00						L	16:51	20.0	3		
7121252	CS-134	1.24E+00	pCi/L	2.5E+00	U	5.12E+00			GAMMALL_GS	1.9891E+00	05/31/2007	30.7	0.3		D
DUP	13967-70-9	1.69E+00		2.5E+00						L	16:51	20.0	3		
7121252	CS-137	-9.58E-01	pCi/L	2.7E+00	U	4.71E+00			GAMMALL_GS	1.9891E+00	05/31/2007	0.0	0.6		D
DUP	10045-97-3	2.59E-01		2.7E+00						L	16:51	20.0	3		
7121252	EU-152	-1.75E+00	pCi/L	5.4E+00	U	9.20E+00			GAMMALL_GS	1.9891E+00	05/31/2007	0.0	0.4		D
DUP	14683-23-9	-4.07E-01		5.4E+00						L	16:51	20.0	3		
7121252	EU-154	3.41E+00	pCi/L	6.1E+00	U	1.37E+01			GAMMALL_GS	1.9891E+00	05/31/2007	103.3	0.5		D
DUP	15585-10-1	1.09E+00		6.1E+00						L	16:51	20.0	3		
7121252	EU-155	2.45E+00	pCi/L	4.4E+00	U	8.10E+00			GAMMALL_GS	1.9891E+00	05/31/2007	54.6	0.6		D
DUP	14391-16-3	4.29E+00		4.4E+00						L	16:51	20.0	3		
7121252	K-40	1.89E+01	pCi/L	5.0E+01	U	4.01E+01			GAMMALL_GS	1.9891E+00	05/31/2007	0.0	2.1		D
DUP	13966-00-2	-5.63E+01		5.0E+01						L	16:51	20.0	3		
7121252	RU-106	1.24E+01	pCi/L	1.8E+01	U	3.78E+01			GAMMALL_GS	1.9891E+00	05/31/2007	822.1	1.5		D
DUP	13967-48-1	-7.52E+00		1.8E+01						L	16:51	20.0	3		
7121252	SB-125	-1.53E+00	pCi/L	5.6E+00	U	1.00E+01			GAMMALL_GS	1.9891E+00	05/31/2007	0.0	0.4		D
DUP	14234-35-6	-1.18E-01		5.6E+00						L	16:51	20.0	3		

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

Monday, June 11, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id: JVHQJ2DR
Client Id: B1MR99
Moisture/Solids%*:

Sdg/Rept Nbr: W05160 35557
Matrix: WATER WATER
QC Type: DUP

Collection Date: 04/23/2007 10:23
Sample On Date:
Received Date: 04/23/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-004	MW6-SBB-A19981								CP	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7145450	H-3	3.98E+02	pCi/L	1.6E+02		2.92E+02	100.0		906.0_H3_LSC	5.00E-03	05/28/2007	8.6	0.3		D
DUP	10028-17-8	4.34E+02		1.4E+02						L	06:03	20.0	3		

STL Richland
rptFeadRadEdd v3.68

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

Monday, June 11, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id: JVXTX2CR
Client Id: B1MPN0
Moisture/Solids%*:

Sdg/Rept Nbr: W05160 35557
Matrix: WATER WATER
QC Type: DUP

Collection Date: 04/26/2007 11:53
Sample On Date:
Received Date: 04/26/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-004	MW6-SBB-A19981								CQ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7149236	H-3	1.40E+02	pCi/L	2.7E+01		5.62E+00	100.0		TRITIUM_ELE	1.50E-01	05/29/2007	1.1	0.1		D
DUP	10028-17-8	1.42E+02		1.0E+01						L	20:49	20.0	3		

STL Richland
rptFeadRadEdd v3.68

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

Monday, June 11, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id: JVGGX2FW
Client Id: B1MCV1
Moisture/Solids%*:

Sdg/Rept Nbr: W05160 35557
Matrix: WATER WATER
QC Type: MS

Collection Date: 04/20/2007 09:15
Sample On Date:
Received Date: 04/20/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A07-003	MW6-SBB-A19981								CL	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7151386	TC-99	3.48E+03	pCi/L	2.1E+02		9.73E+00	100.0	3.59E+03	TC99_ETVDSK	1.259E-01	06/02/2007			60	D
MS	14133-76-7			3.2E+01				96.8		L	19:58			140	

STL Richland
rptFeadRadEdd v3.68

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

Monday, June 11, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05160.Edd, h:\Reportdb\edd\FeadIV\Rad\35557.Edd

Lab Sample Id: JVHL31FW
Client Id: B1MMF2
Moisture/Solids%*:

Sdg/Rept Nbr: W05160 35557
Matrix: WATER WATER
QC Type: MS

Collection Date: 04/23/2007 12:30
Sample On Date:
Received Date: 04/23/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A07-004	MW6-SBB-A19981								CM	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7121251	Uranium	4.00E+01	ug/L	5.2E+00		8.35E-02		3.60E+01	UTOT_KPA	2.51E-02	05/31/2007			60	D
MS	7440-61-1			5.2E+00				111.2		ML	15:37			140	

STL Richland
rptFeadRadEdd v3.68

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/7/2007 3:30:39 PM

Lot No., Due Date: J7D200303,J7D230120,J7D230131,J7D240112; 06/11/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7156527; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05160; WATER

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

6.0 Comments on any No response:
See NCM# 10-10062

First Level Review John Horton **Date** 6-7-7

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7156527
WO 5160

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

Comments on any "No" response: See NCM

Second Level Review: Sheryl R Adam Date: 6-7-07

Clouseau
Nonconformance Memo

STL

NCM #: 10-10062
NCM Initiated By: John Norton
Date Opened: 06/07/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: None
Lot #'s (Sample #'s): J7D200303 (1),
QC Batches: None.,

Nonconformance: MDA not met
Subcategory: Sample size reduced due to high residue mass

Problem Description / Root Cause

Name	Date	Description
John Norton	06/07/2007	Gross alpha in water. The RDL was not met due to reduced aliqouts caused by high residual weights.
John Norton	06/07/2007	Originally analyzed in batch #7121247, that batch failed due to a low spike yield and was re-analyzed.

Corrective Action

Name	Date	Corrective Action
John Norton	06/07/2007	The samples were counted for the longest time frame appropriate to this analysis.
John Norton	06/07/2007	

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 6/7/2007

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

5/31/2007 2:27:30 PM

Lot No., Due Date: J7D200303,J7D230120,J7D230131,J7D240112; 06/11/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7121249; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05160; WATER

1.0 COC

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

2.0 QC Batch

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

3.0 QC & Samples

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

4.0 Raw Data

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

5.0 Other

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

6.0 Comments on any No response:
See NCM# 10-10011

First Level Review John Martin **Date** 5-31-7

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7121249
W05160

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

Comments on any "No" response: See NCM

Second Level Review: Sherryl A Adam Date: 5-31-07

Clouseau
Nonconformance Memo

STL

NCM #: **10-10011**
NCM Initiated By: John Norton
Date Opened: 05/31/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: None
Lot #'s (Sample #'s): J7D200303 (1),
QC Batches: None.,

Nonconformance: MDA not met
Subcategory: Sample size reduced due to high residue mass

Problem Description / Root Cause

Name	Date	Description
John Norton	05/31/2007	Gross beta in water. The sample did not meet the RDL due to reduced aliqout size caused by hight residual weights.

Corrective Action

Name	Date	Corrective Action
John Norton	05/31/2007	The sample was counted for the longest time frame appropriate to this analysis, and the activity detected in the sample was significantly greater than the IDC.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 5/31/2007

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

5/31/2007 2:42:47 PM

Lot No., Due Date: J7D230120,J7D230131,J7D230135,J7D240127,J7D240130; 06/11/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7121255; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05160; WATER

1.0 COC

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

2.0 QC Batch

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

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

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

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

3.0 QC & Samples

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

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

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

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

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

4.0 Raw Data

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

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

4.3 Were Yields entered correctly? Yes ✓ No N/A

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

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

5.0 Other

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

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

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

5.4 Was transcription checked? Yes ✓ No N/A

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

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 5-31-7

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7121255
W05160

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

Comments on any "No" response:

Second Level Review: Cheryl A. Adam Date: 5-31-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/6/2007 8:50:49 AM

Lot No., Due Date:	J7D200303,J7D230120,J7D230131,J7D240127; 06/11/2007
Client, Site:	384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test:	7121252; RGAMMA Gamma by GER
SDG, Matrix:	W05160; 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 10-10043

First Level Review [signature] Date 6/5/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 712252
W05160

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

Comments on any "No" response: See NCM

Second Level Review: Cheryl K. Adam Date: 6-6-07

Clouseau
Nonconformance Memo

STL

NCM #: **10-10043**
NCM Initiated By: Lisa Antonson
Date Opened: 06/06/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Gamma by GER
Lot #'s (Sample #'s): J7D200303 (1), J7D230120 (3), J7D230131 (1,2), J7D240127 (1), J7E010000 (252),
QC Batches: 7121252,

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

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	06/06/2007	In this gamma batch, samle JVC7V didn't meet CRDL. Sample was recounted for 200 minutes and now meets CRDL.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	06/06/2007	Sample was recounted.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 6/6/2007

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/11/2007 1:34:38 PM

Lot No., Due Date: J7D230120,J7D230131,J7D230135,J7D230138,J7D240116,J7D240130; 06/11/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7121257; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05160; WATER

1.0 COC

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

2.0 QC Batch

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

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

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

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

3.0 QC & Samples

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

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

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

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

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

4.0 Raw Data

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

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

4.3 Were Yields entered correctly? Yes No N/A ✓

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

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

5.0 Other

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

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

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

5.4 Was transcription checked? Yes ✓ No N/A

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

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

6.0 Comments on any No response:

First Level Review Tina Antonson **Date** 6/11/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 712257
W05160

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

Comments on any "No" response:

Second Level Review: Sheryl R. Adam Date: 6-11-07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

5/30/2007 3:33:14 PM

Lot No., Due Date: J7D300136,J7D300133; 06/11/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7149236; RH3EE H3EE by LSC

SDG, Matrix: W05160; 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:

Initial count of samples produced a slightly high blank which upon a recount was acceptable at 5.9 pCi/L - NCM

First Level Review [signature] **Date** 5/30/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7149236
W0J160

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

Comments on any "No" response: See NCM

Second Level Review: Sheryl A. Adkins Date: 5-21-07

Clouseau
Nonconformance Memo

STL

NCM #: **10-10000**
NCM Initiated By: Steven Wheland
Date Opened: 05/30/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Sep
Tests: H3EE by LSC
Lot #'s (Sample #'s): J7D300133 (1), J7D300136 (1), J7E010000 (259),
QC Batches: 7149236,

Nonconformance: Blank result above Contract Limit
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
Steven Wheland	05/30/2007	Initial blank value of 10.8 pCi/L. Upon a recount the value lowered to 5.9 pCi/L.

Corrective Action

Name	Date	Corrective Action
Steven Wheland	05/30/2007	Report recount data.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 5/30/2007

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/4/2007 3:33:01 PM

Lot No., Due Date: J7D200303,J7D230120,J7D230138,J7D240116,J7D240127; 06/11/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7151386; RTC99 Tc-99 by LSC

SDG, Matrix: W05160; WATER

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 6/4/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 715138L

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

Comments on any "No" response: See ncm

Second Level Review: Erika Gordon Date: 11/4/17

Clouseau
Nonconformance Memo

STL

NCM #: **10-10038**
NCM Initiated By: Steven Wheland
Date Opened: 06/04/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Sep
Tests: Tc-99 by LSC
Lot #'s (Sample #'s): J7D200303 (1), J7D230120 (3), J7D230138 (1,2), J7D240116 (1,2), J7D240127 (1), J7E010000 (254),
QC Batches: 7151386,

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

Problem Description / Root Cause

Name	Date	Description
Steven Wheland	06/04/2007	The initial count of these samples produced tSIE's greater than the upper bound of the quench curve. Further mixing and a recount provided acceptable data.

Corrective Action

Name	Date	Corrective Action
Steven Wheland	06/04/2007	Report the recount data.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 6/4/2007

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

5/29/2007 8:26:37 AM

Lot No., Due Date: J7D240130; 06/11/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7145450; RTRITIUM H-3 by LSC

SDG, Matrix: W05160; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used Analysis Volume => JVHQJ2AA 5.00<10.00 Q:VB ok AL 5/29/07		✓	
8.07 The Correct Count Geometry was Used. Count Geometry => JV12J2AF SVP15/5<>SVP10/10 JV12J2AD SVP15/5<>SVP10/10 JV12J2AE SVP15/5<>SVP10/10 JV12J2AA SVP15/5<>SVP10/10 JV12J2AC SVP15/5<>SVP10/10 JVHQJ2AA SVP15/5<>SVP10/10 JVHQJ2AD SVP15/5<>SVP10/10 Q:VC ok AL 5/29/07		✓	
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments: See NCM 10-09984.			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. RPD > UCL : 20.0=> JVHQJ2AD H-3 29.0 (RPD) ok AL 5/29/07		✓	
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. No Tracers found in Batch!			✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!			✓
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc_IDL Not Calculated	✓		
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => H-3 OK; No Callin Level Found => H-3	✓		

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

8.3 Comments:

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

First Level Review Angela Long **Date** 5/29/07

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7145450
W05160

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

Comments on any "No" response: See NCM

Second Level Review: Sheryl A. Olsen Date: 5-29-07

Clouseau
Nonconformance Memo

STL

NCM #: **10-09984**
NCM Initiated By: angela long
Date Opened: 05/29/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: H-3 by LSC
Lot #'s (Sample #'s): J7D200303 (1), J7D230120 (1,2), J7D230131 (3,4), J7D230138 (1,2), J7D240116 (1,2), J7D240130 (1,2), J7E010000 (260),
QC Batches: 7121260, 7145450,

Nonconformance: Dups not within acceptance limits
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
angela long	05/29/2007	The duplicates in the original batch did not agree, so a recount was issued and the duplicates are within acceptable limits. This could have been caused by an unknown detector issue.

Corrective Action

Name	Date	Corrective Action
angela long	05/29/2007	N/A

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 5/29/2007

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/5/2007 9:44:33 AM

Lot No., Due Date: J7D200303,J7D230138,J7D240116; 06/11/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7121251; RUNAT UNat by KPA

SDG, Matrix: W05160; WATER

1.0 COC

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

2.0 QC Batch

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

3.0 QC & Samples

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

4.0 Raw Data

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

5.0 Other

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 6-5-7

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 712-1251

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 Jordan Date: 6/5/7

STL RICHLAND

PNNL J7D200303 W05160 ~~303~~ RW 4/20/07
Due 06-04-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-002-150**

Page 1 of 1

Collector: Fluor Hanford ~~R. T. SICKLE~~ 04-19-07 D Connolly	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, FEBRUARY 2007	HNF-N-506-7	Ice Chest No.: BIG-10 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
B1M8B4 (F)		W	4-19-07	1045	1x20-mL P	Activity Scan	None
B1M8B4 (F)		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1M8B4 (F)		W			1x~~4000~~-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1M8B4 (F)		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1M8B4 (F)		W			1x~~1000~~-mL P	906.0_H3_LSC: Tritium (1)	None
B1M8B4 (F)		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						JVC7V	

4-19-07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford ~~R. T. SICKLE~~ 04-19-07	D Connolly	[signature]	1505 APR 19 2007	Eric Darby	[signature]		1505 APR 19 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL

Sample Check-in List

Date/Time Received 4/19/07 1505

Client PGW SDG # W05160 NA [ ] SAF # W07-002

Work Order Number J7D200303 Chain of Custody # W07-002-150

Shipping Container ID [illegible]

1 [illegible]

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

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

4 Cooler temperature _____ NA ✓ Yes ✓ No

5 Vermiculite/packing materials is [illegible] ✓

6 Number of samples in shipping container 1

7 Sample holding times exceeded NA ✓ Yes No

8 Samples have
____ tape
____ custody seals
____ hazard labels
✓ appropriate samples labels

9 Samples are
✓ in good condition
____ broken
____ leaking
____ have a [illegible]

10 Sample pH taken? NA [ ] pH 2 ✓ pH 2 ✓ [illegible]

11 Sample [illegible]
*For documentation only. No corrective action needed. Yes ✓ No

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

13 Description of anomalies (include sample numbers) _____

Sample Custodian Er Darby 4/19/07 1505

Client Sample ID	Analysis Requested	[illegible]	[illegible]

Client informed on _____ by _____ Person contacted _____

[ ] No action necessary, process as is.

Project Manager _____ Date _____

[illegible] 9/03 Rev. [illegible]

PNNL J7D230120
W05160
Due 06-04-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-004-308

Page 1 of 1

Collector Fluor Hanford D. R. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, APRIL 2007	HNF-N-506-8	**Ice Chest No.** SAW5109 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MPL8		W	4-20-07	1104	1x20-mL P	Activity Scan	None
B1MPL8		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1MPL8		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1MPL8		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1MPL8		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						JVF8V	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON	D. R. Brewington	D. R. Brewington	APR 20 2007 1400	Eric Daly	Eric Daly	Eric Daly	APR 20 2007 1400
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

PNNL J7D230120
W05760
Due 06-04-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-004-314

Page 1 of 1

Collector Fluor Hanford D. R. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, APRIL 2007	HNF-N-506-8	**Ice Chest No.** SAWS109 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MPM2		W	4-20-07	1203	1x20-mL P	Activity Scan	None
B1MPM2		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1MPM2		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1MPM2		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						JVF83	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON	D.R. Brewington		APR 20 2007 1450	Eric Darby	E. Darby		APR 20 2007 1450
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

PNNL J7D230120
W05160
Due 06-04-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-004-328

Page 1 of 1

Collector Tidor Hanford B. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, APRIL 2007	HNF-N-506-8	**Ice Chest No.** SAW519 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MR28		W	4-26-07	1300	1x20-mL P	Activity Scan	None
B1MR28		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1MR28		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1MR28		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						JVF9M	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Tidor Hanford B. BREWINGTON			APR 20 2007 1450	Eric Darby			APR 20 2007 1450
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

83

SEVERN TRENT STL

Sample Checklist List

Date/Time Received 4/20/07 1450

Client PGW SDG # W05160 NA [ ] SAF # S07-004

Work Order Number: J7D230120 Chain of Custody # S07-004-308, 314, 328

Shipping Container ID _____

[illegible]

2 Custody seals dated and signed? ✓

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

4 Cooler temperature _____ NA ✓ Yes ✓ No

5 Vermiculite/packing materials is NA ✓

6 Number of samples in shipping container 3

7 Sample holding times exceeded? NA ✓ Yes No

8 Samples have
_____ tape
_____ custody seals
_____ [illegible]
✓ appropriate sample labels

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

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

11 Sample Location, Sample Collector [illegible]
[illegible] Yes ✓

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

13 Description of anomalies (include sample numbers): _____

Sample Custodian [signature] Date 4/20/07 1450

Client Sample ID	Analysis Requested

Client informed on _____ by _____ Person contacted _____

[ ] No action necessary, process as is.

Project Manager _____ Date _____

LS-073 9/03, Rev 5

PNNL J7D230131
W05160
Due 06 04 07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-004-74

Page 1 of 1

Collector: K.B. HULSE	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S07-004	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, APRIL 2007	HNF-N-506 7	Ice Chest No.: BIG 10 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MR32		W	4-20-07	1230	1x20-mL P	Activity Scan	None
B1MR32		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1MR32		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						JVGE6	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
K.B. HULSE			APR 20 2007 1450	Eric Darby			APR 20 2007 1450
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

85

PNNL J7D230131
W05760
Due 06-04-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-004-75**

Page 1 of 1

Collector K.B. HULSE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, APRIL 2007	HNF-N-506 7	**Ice Chest No.** Big 10 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MR33		W	4-20-07	1230	1x20-mL P	Activity Scan	None
B1MR33		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1MR33		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						JVGE7	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
K.B. HULSE	K.B. Hulse		APR 20 2007 1450	Eric Darby	Eric Darby		APR 20 2007 1450
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

PNNL J7D230131
W05160
Due 06-04-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-004-228

Page 1 of 1

Collector: K.B. HULSE	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S07-004	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, APRIL 2007	HNF-N-506 7	Ice Chest No.: Big 10 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MRK1		W	4-20-07	0928	1x20-mL P	Activity Scan	None
B1MRK1		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1MRK1		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1MRK1		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						JVGFA	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
K.B. HULSE			APR 20 2007 1450		Eric Darby		APR 20 2007 1450
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

PNNL J7D23~~0160~~131 SS
W05160
Due 06.04.07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-004-246**

Page 1 of 1

Collector K.B. HULSE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, APRIL 2007	HNF-N-506 7	**Ice Chest No.** Big 10 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MRL3		W	4-20-07	1024	1x20-mL P	Activity Scan	None
B1MRL3		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1MRL3		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1MRL3		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						JVGFH	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
K.B. HULSE	K.B. Hulse		APR 20 2007 1450	Eric Darby	Eric Darby		APR 20 2007 1450
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

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SEVERN TRENT STL

Sample Check-in List

Date/Time Received 4/20/07 1450

Client: ~~PN~~ ED PGW SDG # W05160 NA [ ] SAF # S07-004

Work Order Number: J7D230131 Chain of Custody # S07-004-74,75,228,246

Shipping Container ID: [illegible]

[illegible]

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

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

4 Cooler temperature: _____ NA [✓] 5 Vermiculite/packing materials is NA [illegible]

6 Number of samples in shipping container 4

7 Sample holding times exceeded? NA [✓] [illegible]

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

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

10 Sample pH taken? NA [ ] [illegible] [✓] [illegible] [✓] [illegible]

11 [illegible]
[illegible] No [illegible] Yes [✓]

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

13 Description of anomalies (include sample numbers): _____

Sample Custodian En Darby 4/20/07 1450

Client Sample ID	[illegible]		

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

[illegible] 9/05, Rev. [illegible]

PNNL J7023013 5
W05160
Due 06-04-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I07-038-3

Page 1 of 1

Collector Fluor Hanford F. M. HALL	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. I07-038	Sampling Origin Hanford site	Purchase Order/Charge Code
Project Title 2ZP1-LOL APRIL 2007	HNF-M-506-6	Ice Chest No. ERC Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol CERCLA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MN38		W	4/20/7	1151	1x20-mL P	Activity Scan	None
B1MN38		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1MN38		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						JVGGC	

Relinquished By Fluor Hanford F. M. HALL Print Sign APR 20 2007 Date/Time 1345	Received By Print Sign Eric Darby Date/Time APR 20 2007 1345	Matrix *	
Relinquished By Date/Time	Received By Date/Time	S = Soil, SE = Sediment, SO = Solid, SL = Sludge, W = Water, O = Oil, A = Air	DS = Drum Solid, DL = Drum Liqui, T = Tissue, WI = Wipe, L = Liquid, V = Vegetation, X = Other
Relinquished By Date/Time	Received By Date/Time		
Relinquished By Date/Time	Received By Date/Time		

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

90

PNNL J7D230135
WO 5160
Due 06 04 07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I07-038-2

Page 1 of 1

Collector Fluor Hanford F. M. HALL	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. I07-038	Sampling Origin Hanford site	Purchase Order/Charge Code
Project Title 2ZP1-LOI, APRIL 2007	HHF-M-506-6	Ice Chest No. ERC Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol CERCLA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MN37		W	4/2017	1151	1x20-mL P	Activity Scan	None
B1MN37		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1MN37		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						JVGGD	

Relinquished By	Date/Time	Received By	Date/Time
Fluor Hanford F. M. HALL Print Sign	APR 20 2007 1345	Eric Dunlap Print Sign	APR 20 2007 1345
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

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

STL RICHLAND

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SEVERN TRENT STL

Sample Check-in List

Date/Time Received 4/20/07 1345

Client PGW SDG # W05160 NA ( ) SAF # I07-038

Work Order Number J70230135 Chain of Custody # I07-038-2,3

Shipping Container ID _____ Air Bill # _____

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

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

3 Chain of Custody record present? Yes ✓ No

4 Cooler temperature _____ NA ✓ (Vermicuh erpacking materials is NA ✓

6 Number of samples in shipping container 2

7 Sample holding times exceeded? NA ✓ Yes No

8 Samples have
____ tape
____ custody seals
____ [illegible]
✓ [illegible]

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

10 Sample pH taken? NA ( ) pH<2 ✓ pH>2 ✓ pH>3 ( )

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

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

13 Description of anomalies (include sample numbers) _____

Sample Custodian Eric Darby Date 4/20/07 1345

Client Sample ID	Analysis Requested	Cond No.	

[illegible] by _____ Person contacted _____

( ) No action necessary; process as is.

Project Manager _____ Date _____

LS-023 9/03, Rev. 5

PNNL J7D230138
W05160
Due 06-04-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # A07-003-12

Collector Fluor Hanford F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. A07-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title LLWMA(3)-PA, MARCH 2007	HNF-M-506-6	**Ice Chest No.** ERC **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol Other	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MCV2		W	4/20/7	0730	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1MCV2		W	↓	↓	1x20-mL P	Activity Scan	None
B1MCV2		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1MCV2		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1MCV2		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JVGER	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F. M. HALL			APR 20 2007 1345	Eric Darby			APR 20 2007 1345
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

PNNL J7D230138
W05160
Due 06-09-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # A07-003-11

Page 1 of 1

Collector Fluor Hanford E.M. HALL	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. A07-003	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title LLWMA(3)-PA, MARCH 2007	HNF-N-506-6	Ice Chest No. ERC Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol Other	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MCV1		W	4/20/7	0915	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1MCV1		W			1x20-mL P	Activity Scan	None
B1MCV1		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1MCV1		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1MCV1		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JVGGX	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford E.M. HALL			APR 20 2007 1345	Eric Durby		E. Durby	APR 20 2007 1345
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

SEVERN TRENT STL

Sample Check-in List

Date/Time Received 4/20/07

Client PGW SDG # W05160 NA [illegible] # A07-003

Work Order Number J70230138 Chain of Custody # A07-003-11,12

Shipping Container ID _____ Air Bill # _____

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

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

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

4 Cooler temperature _____ NA [ ] [illegible] Yes [✓] No [ ]

6 Number of samples in shipping container 2

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

5 Samples have
_____ tape
_____ custody seals
_____ [illegible] labels
[✓] appropriate sample [illegible]

7 Samples are
[✓] in good condition
_____ broken
_____ leaking
_____ [illegible] bubbles
(Only for samples requiring [illegible])

10 Sample pH taken? NA [ ] pH 2 [✓] pH 2 [✓] pH 2 [ ]

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

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

13 Description of anomalies (include sample numbers) _____

Sample Custodian Em Darby Date 4/20/07 1345

Client Sample ID	Analysis Requested	Condition

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary, process as is

Project Manager _____ Date _____

[illegible] 9/03 Rev. 5

PNNL JTD240112
W05160
Due 06-07-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W07-004-154**

Page 1 of 1

Collector Fluor Hanford K. B. HULSE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. W07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, APRIL 2007	HNF-N-506-7	**Ice Chest No.** 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 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
B1MNM3		W	4-23-07	1117	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1MNM3		W	↓	↓	1x20-mL P	Activity Scan	None
						JVHLE	
						4-23-07	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K. B. HULSE			1508 APR 23 2007		Eric Dardy		1508 APR 23 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

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STL

Sample Check-in List

Date/Time Received 4/23/07 1508

Client: PGW SDG # W05160 NA [ ] SAF # W07-004

Work Order Number J7D240112 Chain of Custody # W07-004-154

[illegible]

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

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

4 Cooler temperature _____ NA [✓] Yes [✓] No

5 Number of samples in shipping [illegible] ✓

[illegible]

[illegible] ✓

_____ tape

_____ custody seals

_____ haz. d labels

✓ appropriate samples labels

9 Samples are

✓ in good condition

_____ broken

_____ leaking

_____ have air bubbles

(Only for samples requiring [illegible])

10 Sample pH taken? NA [ ] pH [✓] [illegible]

Sample [illegible]

*For documentation only. No [illegible] Yes [✓] No

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

13 Description of anomalies (include sample numbers) _____

Sample Custodian Er Darby 4/23/07 1508

[illegible] Sample ID [illegible]

Client informed on _____ by _____ Person contacted _____

[ ] No action necessary, process as is.

Project Manager _____ Date _____

LS-023 9/03 Rev. 5

PNNL J7D240116
W05760
Due 06-07-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # A07-004-1

Page 1 of 1

Collector Fluor Hanford	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. K. B. HULSE A07-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title LLWMA(2)-PA, APRIL 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 Other	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MMF2		W	4-23-07	1230	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1MMF2		W			1x20-mL P	Activity Scan	None
B1MMF2		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1MMF2		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1MMF2		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JVHL3	

DP 4-23-07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K. B. HULSE	K B Hulse		1508 APR 23 2007	Eric Darby	E Darby		1508 APR 23 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

PNNL J7D240116
W05760
Due 06-07-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # A07-004-4

Page 1 of 1

Collector: K. B. HULSE	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: A07-004	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: LLWMA(2)-PA, APRIL 2007	LNF-W-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: Other	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MMF5		W	4-23-07	1117	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1MMF5		W			1x20-mL P	Activity Scan	None
B1MMF5		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1MMF5		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1MMF5		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
						JVHMA	
						4-23-07	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K. B. HULSE			1508 APR 23 2007	Eric Darby			1508 APR 23 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

99

STL

Sample Check-in List

Date/Time Received 4/23/07 1508

Client: PGN SDG # W05760 NA [ ] SAF # A07-004

Work Order Number J70240116 A07-004-1.4

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 _____ No ✓

Number of samples [illegible] 2

Sample holding time exceeded NA ✓ Yes No

Samples have
____ tape
____ custody seals
____ hazard labels
✓ appropriate samples labels

9 Samples are
✓ in good condition
____ broken
____ leaking
____ have air bubbles
[illegible]

10 Sample pH taken? No [illegible] ✓ [illegible] ✓ [illegible]

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

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

13 Description of anomalies (include sample numbers) _____

Sample Custodian: Eric Darby 4/23/07 1508

Client Sample ID	Analysis Requested	[illegible]	[illegible]

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary, process as is.

Project Manager _____ Date _____

[illegible] 9/03, Rev. 5

PNNL J7D240127
W05160
Due 06 07 07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-004-82

Collector: Fluor Hanford F. M. HALL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S07-004	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, APRIL 2007	HNF-N-506-6	Ice Chest No.: ERC Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MR42		W	4/23/07	1246	1x20-mL P	Activity Scan	None
B1MR42		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1MR42		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1MR42		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						JVHPC	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F. M. HALL			APR 23 2007 1508		Eric Darby	Eric Darby	APR 23 2007 1508
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

SHL RICHLAND

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STL

Sample Check-in List

Date/Time Received 4/23/07 1508

Client PGW SDG # W05160 NA [ ] SAF # S07-004

Work Order Number J7D240127 Chain of Custody # S07-004.82

Shipping Container ID: [illegible]

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

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

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

4 Cooler temperature _____ NA [✓] [illegible] [✓]

5 Number of samples in shipping container 1

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

8 Samples have
____ tape
____ custody seals
____ hazard labels
[✓] appropriate sample labels

9 Samples are
[✓] in good condition
____ broken
____ [illegible]
____ [illegible]
(Only for [illegible])

10 Sample pH taken? NA [ ] pH 2 [✓] pH 2 [ ] pH 3

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

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

13 Description of anomalies (include sample number)

Sample Custodian Eu Darby Date 4/23/07 1508

Client Sample ID	Analysis Requested	Condition	Comments

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary, process as is.

Project Manager _____ Date _____

LN 025 9/03, Rev. 5

PNNL J7D240130
W05760
Due 06-07-07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-004-130**

Page 1 of 1

Collector Fluor Hanford L. D. WALL	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. S07-004	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV, APRIL 2007	HAF-N-506-9	Ice Chest No. 4-23-07 SKINS Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MR99		W	4-23-07	1023	1x20-mL P	Activity Scan	None
B1MR99		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1MR99		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						JVHQJ	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L. D. WALL	L. D. Wall		1508 APR 23 2007	Eric Darby	Eric Darby		1508 APR 23 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

STL RICHLAND

PNNL J7D240130
W05760
Due 06-07-07

Fluor Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-004-138

Page 1 of 1

Collector: L. D. WALL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S07-004	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV. APRIL 2007	HAF-N-5069	Ice Chest No. SKFNS Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.

WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MRB4		W	4-23-07	1324	1x20-mL P	Activity Scan	None
B1MRB4		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1MRB4		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1MRB4		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						J VHGT	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L. D. WALL	L. D. Wall	L. D. Wall	APR 23 2007 1508	Eric Daly	Eric Daly	E. Daly	APR 23 2007 1508
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

SHI RICHLAND

STL

Sample Check-in List

Date/Time Received 4/23/07

Client: PGW SDG # W05160 NA [ ] SAF # S07-004

Work Order Number J7D240130 Chain of Custody # S07-004-130, 138

Shipping Container ID: [illegible]

[illegible]

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

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

4 Cooler temperature _____ NA [ ] [illegible] Yes ✓ No

6 Number of samples in shipping container 2

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

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

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

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

Sample Location: Sample collection [illegible]
*For documentation only. No [illegible] Yes ✓ No

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

13 Description of anomalies (include sample numbers) _____

Sample Custodian Er Darby Date 4/23/07 1508

Client Sample ID	Analysis Requested	[illegible]	[illegible]

Client informed on _____ by _____ Person contacted _____

[ ] No action necessary, process as is.

Project Manager _____ Date _____

LS-023 9/03, Rev. 5

PNNL JTD300133 WO5160 Due 06 11 07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S07-004-336

Page 1 of 1

Collector: Fluor Hanford F. M. HALL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S07-004	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, APRIL 2007	HNF-M-506-6	Ice Chest No.: ERC Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MPN0		W	4/26/7	1153	1x20-mL P	Activity Scan	None
B1MPN0		W	↓	↓	3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
						JVXTX	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F.M. HALL		APR 2 6 2007	1230	Eric Dirby		APR 2 6 2007	1230
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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STL

Sample Checklist

Date/Time Received 4/26/07 1230

Client PGW SDG # W05760 NA [ ] SAF # 807-004

Work Order Number J7D 300133 Chain of Custody # 807-004-336

Shipping Container [illegible]

[illegible]

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

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

4 Cooler temperature _____ NA [✓] Vermiculite/packing [illegible] Yes [✓] No

6 Number of samples in shipping container 1 [✓]

7 Sample holding time exceeded [illegible] NA [✓] Yes [illegible] 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 [illegible])

10 Sample pH taken? NA [ ] pH [illegible] pH 2 [✓] pH [illegible]

11 Sample Location, Sample Collector Listed
(For documentation only. No corrective [illegible] needed) Yes [✓] No

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

13 Description of anomalies (include sample numbers) _____

Sample Custodian Er Darby Date 4/26/07 1230

Client Sample ID	Analysis Requested		

Client informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

[illegible] 9/03 Rev. 5

PNNL J7D300136
W05760
Due 06 11 07

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S07-003-327**

Page 1 of 1

Collector Fluor Hanford R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S07-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, MARCH 2007	HNF-N-506-7	**Ice Chest No.** SML 562 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MF88		W	4-26-07	1248	1x20-mL P	Activity Scan	None
B1MF88		W	↓	↓	3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
						JVXT5	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			APR 26 2007 1325	Eric Darby	E Day		APR 26 2007 1325
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

SEVERN TRENT STL

Sample Checklist Log

Date/Time Received 4/26/07 1325

Client PGW SDG # W05160 NA ( ) SAF # S07-003

Work Order Number J7D300136 Chain of Custody # S07-003-327

Shipping Container ID _____ Yes ( ) No ( )

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 ✓ Thermal cell packing [illegible] ✓

6 Number of samples in shipping container _____ / _____

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

8 Samples have:
_____ tape
_____ custody seals
_____ [illegible]
✓ [illegible]

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

10 Sample pH taken? NA ( ) pH-2 ( ) pH-2 ✓ pH-3 ( )

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

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

13 Description of anomalies (include sample numbers) _____

Sample Custodian Eu Darby Date 4/26/07 1325

Client Sample ID	Analysis Requested	[illegible]	

Client informed on _____ by _____ Person contacted _____

( ) No action necessary - process as is.

Project Manager _____ Date _____

LS 023 9/03 Rev. 5

STL RICHLAND

6/6/2007 9:47:34 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 06/04/2007

Sep1 DT/Tm Tech:

Batch: 7156527 **WATER** **pCi/L** **PM, Quote: SA , 57671**

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: BockJ/APA

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JVC7V-1-AK-X J7D200303-1-DUP 04/19/2007 10:45		7.40g,in AmtRec: 20ML,125ML,2X500ML,2XLP #Containers: 6		1.5	45.2	200	10A	1334	6/7/07 R Scr: Alpha: 4.84E-03 uCi/Sa 1.2E-01L Beta: -6.56E-05 uCi/Sa	
2 JVC7V-2-AJ J7D200303-1-SAMP 04/19/2007 10:45		7.80g,in AmtRec: 20ML,125ML,2X500ML,2XLP #Containers: 6			57.5		10B		Scr: Alpha: 4.84E-03 uCi/Sa 1.2E-01L Beta: -6.56E-05 uCi/Sa	
3 JVF8V-2-AC J7D230120-1-SAMP 04/20/2007 11:04		199.30g,in AmtRec: 20ML,5XLP,2X4LP #Containers: 8			37.4	.50	10A	1438	6/7/07 R Scr: Alpha: -1.36E-03 uCi/Sa Beta: 1.29E-03 uCi/Sa	
4 JVF83-2-AC J7D230120-2-SAMP 04/20/2007 12:03		197.90g,in AmtRec: 20ML,2XLP,2X4LP #Containers: 5			24.7		10B		Scr: Alpha: 6.45E-04 uCi/Sa Beta: -6.33E-04 uCi/Sa	
5 JVGFA-2-AC J7D230131-3-SAMP 04/20/2007 09:28		200.50g,in AmtRec: 20ML,2XLP,2X4LP #Containers: 5			22.2		10C		Scr: Alpha: -2.90E-04 uCi/Sa Beta: 1.56E-05 uCi/Sa	
6 JVGFH-2-AC J7D230131-4-SAMP 04/20/2007 10:24		198.40g,in AmtRec: 20ML,2XLP,2X4LP #Containers: 5			43.7		10d		Scr: Alpha: 6.70E-04 uCi/Sa Beta: -5.26E-05 uCi/Sa	
7 JVHLE-2-AA J7D240112-1-SAMP 04/23/2007 11:17		178.70g,in AmtRec: 20ML,LP #Containers: 2			42.8		10F		Scr: Alpha: 1.27E-04 uCi/Sa Beta: -7.44E-05 uCi/Sa	

110

STL RICHLAND

6/6/2007 9:47:36 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 06/04/2007

Sep1 DT/Tm Tech:

Batch: 7156527 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 J0CL8-1-AA-B J7F050000-527-BLK 04/19/2007 10:45	AmtRec:	200.50g,in	#Containers: 1	1.5	0.6	200	10c Scr:	1334 Alpha:	6/7/07 R Beta:	
9 J0CL8-1-AC-C J7F050000-527-LCS 04/19/2007 10:45	AmtRec:	201.10g,in	ASD4205 05/17/07,pd 02/09/06,r #Containers: 1		0.6		10d Scr:	Alpha:	Beta:	

Comments: JVC7V-DUP "Comments. Aliquots reduced due to weight screens. JB 06/06/07"

PH<2.0 JB 6-6-07

#1 JVC7V, out of sample. Had used rest of it for a gamma pop-up. Used sample intended for uranium. JB 6-6-07

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

JVC7V1AK-DUP Constituent List:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
J0CL81AA-BLK:					
ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
J0CL81AC-LCS:					
Am-241	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

JVC7V1AK-DUP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J0CL81AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J0CL81AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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5/30/2007 5:24:43 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: _____

AnalyDueDate: 06/04/2007

Sep1 DT/Tm Tech:

Batch: 7121249 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JVC7V-1-AD J7D200303-1-SAMP 04/19/2007 10:45		9.90g,in AmtRec: 20ML,125ML,2X500ML,2XLP	#Containers: 6	1.5	78.1	200	28A	2109	5/30/07 CK Scr: Alpha: 4.84E-03 uCi/Sa 1.2E-01L	Beta: -6.56E-05 uCi/Sa
2 JVF8V-1-AD J7D230120-1-SAMP 04/20/2007 11:04		201.10g,in AmtRec: 20ML,5XLP,2X4LP	#Containers: 8	1.5	63	100	32D	2100	Scr: Alpha: -1.36E-03 uCi/Sa	Beta: 1.29E-03 uCi/Sa
3 JVF83-1-AD J7D230120-2-SAMP 04/20/2007 12:03		198.70g,in AmtRec: 20ML,2XLP,2X4LP	#Containers: 5	1.5	45	100	31A		Scr: Alpha: 6.45E-04 uCi/Sa	Beta: -6.33E-04 uCi/Sa
4 JVGFA-1-AD J7D230131-3-SAMP 04/20/2007 09:28		201.60g,in AmtRec: 20ML,2XLP,2X4LP	#Containers: 5	1.5	41.1	100	31B		Scr: Alpha: -2.90E-04 uCi/Sa	Beta: 1.56E-05 uCi/Sa
5 JVGFH-1-AD J7D230131-4-SAMP 04/20/2007 10:24		199.90g,in AmtRec: 20ML,2XLP,2X4LP	#Containers: 5	1.5	54.9	100	31C		Scr: Alpha: 6.70E-04 uCi/Sa	Beta: -5.26E-04 uCi/Sa
6 JVHLE-1-AC J7D240112-1-SAMP 04/23/2007 11:17		198.60g,in AmtRec: 20ML,LP	#Containers: 2	1.5	80.2	100	31D		Scr: Alpha: 1.27E-04 uCi/Sa	Beta: -7.44E-05 uCi/Sa
7 JVHLE-1-AE-X J7D240112-1-DUP 04/23/2007 11:17		198.20g,in AmtRec: 20ML,LP	#Containers: 2	1.5	80.3	100	26B	0754	5/30/07 Scr: Alpha: 1.27E-04 uCi/Sa	Beta: -7.44E-05 uCi/Sa

STL RICHLAND

T12

5/30/2007 5:24:44 PM

Sample Preparation/Analysis

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

Balance Id:1120482733
Pipet #:

AnalyDueDate: 06/04/2007

Sep1 DT/Tm Tech:

Batch: 7121249 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JV1X5-1-AA-B J7E010000-249-BLK		201.50g,in		1.5	0.2	200	28C	2109	5/30/07 OK	
04/23/2007 11:17		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:
9 JV1X5-1-AC-C J7E010000-249-LCS		200.10g,in	BESB3058 03/23/07,pd 08/08/06,r	1.5	0.6	200	28D			
04/23/2007 11:17		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:

Comments:

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

JVC7V1AD-SAMP Constituent List:

BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
JV1X51AA-BLK:					
BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
JV1X51AC-LCS:					
Sr-90	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

JVC7V1AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JV1X51AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JV1X51AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

5/29/2007 6:40:20 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 06/04/2007

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

Batch: 7121255 **WATER** **pCi/L** **PM, Quote: SA , 57671**
SEQ Batch, Test: None

Balance Id:1120482733,1120482733,1120
Pipet #:
Sep1 DT/Tm Tech: 05/22/2007 13:59,ManisD
Sep2 DT/Tm Tech: 05/29/2007 09:40,ManisD
Prep Tech: ManisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JVF8V-1-AF J7D230120-1-SAMP		1002.10g,in	srtb14756 05/07/07,pd 09/11/06,r		1.0	24.3	100	7A 7A	0747 0735	5/30/07 5/31/07	
						~~05/22/2007 13:59,s1, 05/29/2007~~					
04/20/2007 11:04		AmtRec: 20ML,5XLP,2X4LP	#Containers: 8					Scr:	Alpha: -1.36E-03 uCi/Sa	Beta: 1.29E-03 uCi/Sa	
2 JVGE6-1-AC J7D230131-1-SAMP		1002.70g,in	srtb14757 05/07/07,pd 09/11/06,r		1.0	25.3	100	7B 7B	0747 0735	5/30/07 5/31/07	
						~~05/22/2007 13:59,s1, 05/29/2007~~					
04/20/2007 12:30		AmtRec: 20ML,3XLP,4LP	#Containers: 5					Scr:	Alpha: 1.21E-03 uCi/Sa	Beta: -1.13E-03 uCi/Sa	
3 JVGE7-1-AC J7D230131-2-SAMP		992.50g,in	srtb14758 05/07/07,pd 09/11/06,r		1.0	24.7	100	7C 7C	0747 0735	5/30/07 5/31/07	
						~~05/22/2007 13:59,s1, 05/29/2007~~					
04/20/2007 12:30		AmtRec: 20ML,3XLP,4LP	#Containers: 5					Scr:	Alpha: -5.95E-04 uCi/Sa	Beta: 6.15E-04 uCi/Sa	
4 JVGGC-1-AC J7D230135-1-SAMP		1002.50g,in	srtb14759 05/07/07,pd 09/11/06,r		1.0	24.7	100	1A 1A	0747 0735	5/30/07 5/31/07	
						~~05/22/2007 13:59,s1, 05/29/2007~~					
04/20/2007 11:51		AmtRec: 20ML,3XLP,2X4LP	#Containers: 6					Scr:	Alpha: -2.29E-03 uCi/Sa	Beta: 1.33E-03 uCi/Sa	

5/29/2007 6:40:21 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 06/04/2007

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

Balance Id:1120482733,1120482733,1120

Pipet #: _____

Sep1 DT/Tm Tech: 05/22/2007 13:59,ManisD

Sep2 DT/Tm Tech: 05/29/2007 09:40,ManisD

Prep Tech: ,ManisD

Batch: 7121255 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
5 JVGGD-1-AC J7D230135-2-SAMP		1005.00g,in	srtb14760 05/07/07,pd 09/11/06,r		1.0	24.9	100	1B	0742	5/30/07	
						~~05/22/2007 13:59,s1, 05/29/2007~~		1B	0735	5/31/07	
04/20/2007 11:51		AmtRec: 20ML,3XLP,2X4LP	#Containers: 6					Scr:	Alpha: 1.88E-03 uCi/Sa	Beta: -2.36E-03 uCi/Sa	
6 JVGGD-1-AD-X J7D230135-2-DUP		982.90g,in	srtb14761 05/07/07,pd 09/11/06,r		1.0	24.5	100	1C	0747	5/30/07	
						~~05/22/2007 13:59,s1, 05/29/2007~~		1C	0735	5/31/07	
04/20/2007 11:51		AmtRec: 20ML,3XLP,2X4LP	#Containers: 6					Scr:	Alpha: 1.88E-03 uCi/Sa	Beta: -2.36E-03 uCi/Sa	
7 JVHP0-1-AC J7D240127-1-SAMP		1006.40g,in	srtb14762 05/07/07,pd 09/11/06,r		1.0	25	100	1D	0747	5/30/07	
						~~05/22/2007 13:59,s1, 05/29/2007~~		1D	0735	5/31/07	
04/23/2007 12:46		AmtRec: 20ML,500ML,3XLP,4LP	#Containers: 6					Scr:	Alpha: 2.97E-04 uCi/Sa	Beta: 4.97E-04 uCi/Sa	
8 JVHQT-1-AD J7D240130-2-SAMP		1005.40g,in	srtb14763 05/07/07,pd 09/11/06,r		1.0	24.8	100	2A	0747	5/30/07	
						~~05/22/2007 13:59,s1, 05/29/2007~~		2A	0831	5/31/07	
04/23/2007 13:24		AmtRec: 20ML,4XLP,2X4LP	#Containers: 7					Scr:	Alpha: 1.67E-03 uCi/Sa	Beta: -2.42E-04 uCi/Sa	

STL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2 ISV - Insufficient Volume for Analysis WO Cnt: 8
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.26

5/29/2007 6:40:22 PM

Sample Preparation/Analysis

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

Balance Id:1120482733,1120482733,1120

Pipet #: _____

AnalyDueDate: 06/04/2007

Sep1 DT/Tm Tech: 05/22/2007 13:59,ManisD

Batch: 7121255 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech: 05/29/2007 09:40,ManisD

Prep Tech: ManisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
9 JV106-1-AA-B J7E010000-255-BLK		999.70g,in	srtb14764 05/07/07,pd 09/11/06,r		1.0	24.8	100	2B 2B	0747 0831	5/30/07 5/31/07	
						~~05/22/2007 13:59,s1, 05/29/2007~~					
04/20/2007 11:51		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:
10 JV106-1-AC-C J7E010000-255-LCS		998.50g,in	srsg1344 04/19/07,pd 09/11/06,r		1.0	25	100	2C 2C	0747 0831	5/30/07 5/31/07	
						~~05/22/2007 13:59,s1, 05/29/2007~~					
04/20/2007 11:51		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:

Comments:

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

JVF8V1AF-SAMP Constituent List:

Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:70	UCL:130	RPD:20
JV1061AA-BLK:											
Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:	UCL:	RPD:
JV1061AC-LCS:											
Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:70	UCL:130	RPD:20

JVF8V1AF-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JV1061AA-BLK:

STL RICHLAND

Sample Preparation/Analysis

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

Balance Id:1120482733
Pipet #: _____

AnalyDueDate: 06/04/2007

Batch: 7121255 pCi/L
SEQ Batch, Test: None

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

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

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

JV1061AC-LCS:

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

Approved By _____ Date: _____

STL RICHLAND

5/24/2007 11:05:53 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

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

AnalyDueDate: 06/04/2007 W05160

Batch: 7121252 **WATER** **pCi/L** **PM, Quote: SA , 57671**
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JVC7V-1-AE J7D200303-1-SAMP 04/19/2007 10:45		1920.60g,in AmtRec: 20ML,125ML,2X500ML,2XLP #Containers: 6			100mL	100	G15	1830	5/31/07 CR Scr: Alpha: 4.84E-03 uCi/Sa 1.2E-01L Beta: -6.56E-05 uCi/Sa	
2 JVF9M-1-AA J7D230120-3-SAMP 04/20/2007 13:00		2000.40g,in AmtRec: 20ML,500MLP,3X4LP #Containers: 5					G14	1833	Scr: Alpha: 1.88E-03 uCi/Sa Beta: 2.18E-03 uCi/Sa	
3 JVGE6-1-AA J7D230131-1-SAMP 04/20/2007 12:30		2000.70g,in AmtRec: 20ML,3XLP,4LP #Containers: 5					G13	1834	Scr: Alpha: 1.21E-03 uCi/Sa Beta: -1.13E-03 uCi/Sa	
4 JVGE7-1-AA J7D230131-2-SAMP 04/20/2007 12:30		1996.40g,in AmtRec: 20ML,3XLP,4LP #Containers: 5					G12	1835	Scr: Alpha: -5.95E-04 uCi/Sa Beta: 6.15E-04 uCi/Sa	
5 JVHP0-1-AA J7D240127-1-SAMP 04/23/2007 12:46		1991.00g,in AmtRec: 20ML,500ML,3XLP,4LP #Containers: 6					G4	1835	Scr: Alpha: 2.97E-04 uCi/Sa Beta: 4.97E-04 uCi/Sa	
6 JVHP0-1-AE-X J7D240127-1-DUP 04/23/2007 12:46		1989.10g,in AmtRec: 20ML,500ML,3XLP,4LP #Containers: 6					G5	1831	Scr: Alpha: 2.97E-04 uCi/Sa Beta: 4.97E-04 uCi/Sa	
7 JV10C-1-AA-B J7E010000-252-BLK 04/23/2007 12:46		1998.10g,in AmtRec: #Containers: 1					G11	1836	Scr: Alpha: Beta:	

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

STL RICHLAND

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STL RICHLAND

5/24/2007 11:05:57 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #:

AnalyDueDate: 06/04/2007

Sep1 DT/Tm Tech:

Batch: 7121252 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JV10C-1-AC-C J7E010000-252-LCS 04/23/2007 12:46		1995.60g,in	QCAG1363 03/23/07,pd 03/07/05,r		1000mL	100	G7	2026	5/31/07	

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

Comments: pH <2.0 JB 5-24-07
Client only sent 1 bottle (1,000 mls) for gamma. Used rest of Alpha/Beta sampler. OK'D by Sherryl A. JB 5-24-07

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

JVC7V1AE-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:

JV10C1AA-BLK:

Co-60	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:6.00E+00	pCi/L	LCL:	UCL:	RPD:	Cs-137DA	RDL:6.00E+00	pCi/L	LCL:	UCL:	RPD:
Eu-154	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Eu-155	RDL:.00E+00	pCi/L	LCL:	UCL:	RPD:
K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Sb-125	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:

JV10C1AC-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						

JVC7V1AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JV10C1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JV10C1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

SEVERN TRENT STL

*** RE-COUNT REQUEST ***

DUE DATE 6/4/07

CUSTOMER PGW

ANALYSIS Gamma

MATRIX Water

LOT NUMBER ~~J7C7V1A2~~ J7D200303 UMA 6/5/07

SAMPLE DELIVERY GROUP

OLD BATCH NUMBER 712 1252

	LAB SAMPLE ID 6/5/07 UMA	REASON FOR REQUEST & ANALYSIS COMMENTS
1)	~~J7C7V1A2~~	Recount MDA
2)	JVC7V1A2	
3)		
4)		
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20)		

6/5/2007 4:18:41 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #:

AnalyDueDate: 06/04/2007

Sep1 DT/Tm Tech:

Batch: 7121252 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JVC7V-1-AE J7D200303-1-SAMP 04/19/2007 10:45		1920.60g,in AmtRec: 20ML,125ML,2X500ML,2XLP #Containers: 6						Scr: Alpha: 4.84E-03 uCi/Sa	1.2E-01L	Beta: -6.56E-05 uCi/Sa
[redacted] J7D200303-1-SAMP 04/19/2007 10:45		1920.60g AmtRec: 20ML,125ML,2X500ML,2XLP #Containers: 6		100ml		200min		G7 Scr: Alpha: 4.84E-03 uCi/Sa	2013 6/5/07 1.2E-01L	Beta: -6.56E-05 uCi/Sa
3 JVF9M-1-AA J7D230120-3-SAMP 04/20/2007 13:00		2000.40g,in AmtRec: 20ML,500MLP,3X4LP #Containers: 5						Scr: Alpha: 1.88E-03 uCi/Sa		Beta: 2.18E-03 uCi/Sa
4 JVGE6-1-AA J7D230131-1-SAMP 04/20/2007 12:30		2000.70g,in AmtRec: 20ML,3XLP,4LP #Containers: 5						Scr: Alpha: 1.21E-03 uCi/Sa		Beta: -1.13E-03 uCi/Sa
5 JVGE7-1-AA J7D230131-2-SAMP 04/20/2007 12:30		1996.40g,in AmtRec: 20ML,3XLP,4LP #Containers: 5						Scr: Alpha: -5.95E-04 uCi/Sa		Beta: 6.15E-04 uCi/Sa
6 JVHP0-1-AA J7D240127-1-SAMP 04/23/2007 12:46		1991.00g,in AmtRec: 20ML,500ML,3XLP,4LP #Containers: 6						Scr: Alpha: 2.97E-04 uCi/Sa		Beta: 4.97E-04 uCi/Sa
7 JVHP0-1-AE-X J7D240127-1-DUP 04/23/2007 12:46		1989.10g,in AmtRec: 20ML,500ML,3XLP,4LP #Containers: 6						Scr: Alpha: 2.97E-04 uCi/Sa		Beta: 4.97E-04 uCi/Sa

STL RICHLAND

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Sample Preparation/Analysis

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

Balance Id:1120482733
Pipet #:

AnalyDueDate: 06/04/2007

Sep1 DT/Tm Tech:

Batch: 7121252 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JV10C-1-AA-B J7E010000-252-BLK 04/23/2007 12:46		1998.10g,in AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:
9 JV10C-1-AC-C J7E010000-252-LCS 04/23/2007 12:46		1995.60g,in AmtRec:	QCAG1363 03/23/07,pd 03/07/05,r #Containers: 1					Scr:	Alpha:	Beta:

Comments:

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

JVC7V1AE-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:

JV10C1AA-BLK:

Co-60	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:6.00E+00	pCi/L	LCL:	UCL:	RPD:	Cs-137DA	RDL:6.00E+00	pCi/L	LCL:	UCL:	RPD:
Eu-154	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Eu-155	RDL:.00E+00	pCi/L	LCL:	UCL:	RPD:
K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Sb-125	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:

JV10C1AC-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						

JVC7V1AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JV10C1AA-BLK:

STL RICHLAND

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 06/04/2007

Sep1 DT/Tm Tech:

Batch: 7121252 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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

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

JV10C1AC-LCS:

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

Approved By _____ Date: _____

STL RICHLAND

5/29/2007 11:52:13 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #:

AnalyDueDate: 06/04/2007 W05160

Batch: 7121257 **WATER** **pCi/L**
SEQ Batch, Test: None

PM, Quote: SA , 57671

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

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JVF8V-1-AE J7D230120-1-SAMP 04/20/2007 11:04		3946.70g,in AmtRec: 20ML,5XLP,2X4LP	ita6266 05/08/07 #Containers: 8		37.9	100	L2	1416 Scr: Alpha: -1.36E-03 uCi/Sa	6/8/07 K Beta: 1.29E-03 uCi/Sa	
2 JVF83-1-AE J7D230120-2-SAMP 04/20/2007 12:03		3952.40g,in AmtRec: 20ML,2XLP,2X4LP	ita6267 05/08/07 #Containers: 5		36.5		L4	1419 Scr: Alpha: 6.45E-04 uCi/Sa	6/8/07 K Beta: -6.33E-04 uCi/Sa	
3 JVF9M-1-AC J7D230120-3-SAMP 04/20/2007 13:00		3920.10g,in AmtRec: 20ML,500MLP,3X4LP	ita6268 05/08/07 #Containers: 5		36.7		L5	1420 Scr: Alpha: 1.88E-03 uCi/Sa	6/8/07 K Beta: 2.18E-03 uCi/Sa	
4 JVGFA-1-AE J7D230131-3-SAMP 04/20/2007 09:28		3896.90g,in AmtRec: 20ML,2XLP,2X4LP	ita6269 05/08/07 #Containers: 5		35.8		L2	1619 Scr: Alpha: -2.90E-04 uCi/Sa	6/8/07 K Beta: 1.56E-05 uCi/Sa	
5 JVGFH-1-AE J7D230131-4-SAMP 04/20/2007 10:24		3956.40g,in AmtRec: 20ML,2XLP,2X4LP	ita6270 05/08/07 #Containers: 5		37.1		L4	1621 Scr: Alpha: 6.70E-04 uCi/Sa	6/8/07 K Beta: -5.26E-04 uCi/Sa	
6 JVGGC-1-AA J7D230135-1-SAMP 04/20/2007 11:51		3950.70g,in AmtRec: 20ML,3XLP,2X4LP	ita6271 05/08/07 #Containers: 6		38.8		L5	1623 Scr: Alpha: -2.29E-03 uCi/Sa	6/8/07 K Beta: 1.33E-03 uCi/Sa	
7 JVGGC-1-AD-X J7D230135-1-DUP 04/20/2007 11:51		3904.10g,in AmtRec: 20ML,3XLP,2X4LP	ita6272 05/08/07 #Containers: 6		37.8		L2	1812 Scr: Alpha: -2.29E-03 uCi/Sa	6/8/07 DD Beta: 1.33E-03 uCi/Sa	

STL RICHLAND

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STL RICHLAND

5/29/2007 11:52:16 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 06/04/2007

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

Balance Id:1120482733

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Batch: 7121257 **WATER** **pCi/L** **PM, Quote: SA , 57671**
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JVGGD-1-AA J7D230135-2-SAMP 04/20/2007 11:51	AmtRec: 20ML,3XLP,2X4LP #Containers: 6	3906.20g,in	ita6273 05/08/07		38.8	100	L4	1815	6/8/07	Scr: Alpha: 1.88E-03 uCi/Sa Beta: -2.36E-03 uCi/Sa
9 JVGGR-1-AC J7D230138-1-SAMP 04/20/2007 07:30	AmtRec: 20ML,2X500ML,LP,2X4LP #Containers: 6	3947.50g,in	ita6274 05/08/07		36.1		L5	1816		Scr: Alpha: -4.19E-04 uCi/Sa Beta: 8.80E-04 uCi/Sa
10 JVGGX-1-AC J7D230138-2-SAMP 04/20/2007 09:15	AmtRec: 20ML,2X500ML,LP,2X4LP #Containers: 6	3944.00g,in	ita6275 05/08/07		36.3		L2	2004		Scr: Alpha: -6.40E-04 uCi/Sa Beta: -9.29E-05 uCi/Sa
11 JVHL3-1-AC J7D240116-1-SAMP 04/23/2007 12:30	AmtRec: 20ML,2X500MLP,LP,2X4LP #Containers: 6	3925.50g,in	ita6276 05/08/07		37.1		L4	2006		Scr: Alpha: 1.20E-03 uCi/Sa Beta: -9.30E-05 uCi/Sa
12 JVHMA-1-AC J7D240116-2-SAMP 04/23/2007 11:17	AmtRec: 20ML,2X500MLP,LP,2X4LP #Containers: 6	3863.40g,in	ita6277 05/08/07		36.6		L5	2007		Scr: Alpha: 1.25E-03 uCi/Sa Beta: -1.28E-03 uCi/Sa
13 JVHQJ-1-AC J7D240130-1-SAMP 04/23/2007 10:23	AmtRec: 20ML,LP,2X4LP #Containers: 4	3943.00g,in	ita6278 05/08/07		36.5		L2	2147		Scr: Alpha: 5.40E-04 uCi/Sa Beta: 1.12E-04 uCi/Sa
14 JVHQT-1-AC J7D240130-2-SAMP 04/23/2007 13:24	AmtRec: 20ML,4XLP,2X4LP #Containers: 7	3954.30g,in	ita6279 05/08/07		35.9		L4	2150		Scr: Alpha: 1.67E-03 uCi/Sa Beta: -2.42E-04 uCi/Sa

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5/29/2007 11:52:17 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 06/04/2007

Sep1 DT/Tm Tech:

Batch: 7121257 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 JV11P-1-AA-B J7E010000-257-BLK		3975.10g,in	ita6280 05/08/07		37.5	100	L5	2150	6/8/07 ohl	
04/20/2007 11:51		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:
16 JV11P-1-AC-C J7E010000-257-LCS		3982.60g,in	isd0748 04/25/07,pd 04/11/07,r		38.7	↓	L2	2334	✓	
04/20/2007 11:51		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:

Comments: PH - neutral JB 5-29-07

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

JVF8V1AE-SAMP Constituent List:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
JV11P1AA-BLK:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
JV11P1AC-LCS:
I-129 RDL:5 pCi/L LCL:70 UCL:130 RPD:20
JVF8V1AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JV11P1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JV11P1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

7149236

SEVERN TRENT STL

*** RE-COUNT REQUEST ***

DUE DATE 6/11/07

CUSTOMER PGW

ANALYSIS H-3EE

MATRIX Water

LOT NUMBER J7D300133, J7D300136

SAMPLE DELIVERY GROUP W05160

OLD BATCH NUMBER 7121259

	LAB SAMPLE ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1)	All	high blk
2)		
3)		
4)		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		
13)		
14)		
15)		
16)		
17)		
18)		
19)		
20)		

STL RICHLAND

5/29/2007 9:22:06 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:
Pipet #:

AnalyDueDate: 06/11/2007

Sep1 DT/Tm Tech:

Batch: 7149236 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JVXTX-2-AA J7D300133-1-SAMP 04/26/2007 11:53		AmtRec: 20ML,3XLP	#Containers: 4			Scr:	Alpha: 5.41E-06 uCi/Sa	Beta: 5.62E-04 uCi/Sa
2 JVXTX-2-AC-X J7D300133-1-DUP 04/26/2007 11:53		AmtRec: 20ML,3XLP	#Containers: 4			Scr:	Alpha: 5.41E-06 uCi/Sa	Beta: 5.62E-04 uCi/Sa
3 JVXT5-2-AA J7D300136-1-SAMP 04/26/2007 12:48		AmtRec: 20ML,3XLP	#Containers: 4			Scr:	Alpha: 4.14E-04 uCi/Sa	Beta: -3.18E-04 uCi/Sa
4 JV12A-2-AA-B J7E010000-259-BLK 04/26/2007 11:53		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
5 JV12A-2-AC-C J7E010000-259-LCS 04/26/2007 11:53		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 JV12A-2-AG-B J7E010000-259-BLK 04/26/2007 11:53		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

5/29/2007 9:22:12 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 06/11/2007

Batch: 7149236 pCi/L
SEQ Batch, Test: None

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

Comments:

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

JVXTX2AA-SAMP Constituent List:
H-3 RDL:1.00E+01 pCi/L LCL:70 UCL:130 RPD:20
JV12A2AA-BLK:
H-3 RDL:10 pCi/L LCL: UCL: RPD:
JV12A2AC-LCS:
H-3 RDL:10 pCi/L LCL:70 UCL:130 RPD:20
JV12A2AG-BLK:
H-3 RDL:10 pCi/L LCL: UCL: RPD:

JVXTX2AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JV12A2AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JV12A2AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JV12A2AG-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

SEVERN TRENT STL

*** RE-COUNT REQUEST ***

DUE DATE 6/11/07

CUSTOMER PGW

ANALYSIS TC99

MATRIX water

LOT NUMBER J7D260303

SAMPLE DELIVERY GROUP

OLD BATCH NUMBER 7121254

LAB SAMPLE ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1) all	TSIR out - please shake,
2)	wipe & recount.
3)	
4)	
5)	
6)	
7)	
8)	
9)	
10)	
11)	
12)	
13)	
14)	
15)	
16)	
17)	
18)	
19)	
20)	

5/31/2007 12:40:54 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 06/04/2007

Batch: 7151386 **WATER** **pCi/L** **PM, Quote: SA , 57671**

SEQ Batch, Test: None

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

Work Order, Lot, Sample 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 JVC7V-2-AF J7D200303-1-SAMP 04/19/2007 10:45	AmtRec: 20ML,125ML,2X500ML,2XLP #Containers: 6							Scr: Alpha: 4.84E-03 uCi/Sa 1.2E-01L		Beta: -6.56E-05 uCi/Sa
2 JVF9M-2-AD J7D230120-3-SAMP 04/20/2007 13:00	AmtRec: 20ML,500MLP,3X4LP #Containers: 5							Scr: Alpha: 1.88E-03 uCi/Sa		Beta: 2.18E-03 uCi/Sa
3 JVGGR-2-AD J7D230138-1-SAMP 04/20/2007 07:30	AmtRec: 20ML,2X500ML,LP,2X4LP #Containers: 6							Scr: Alpha: -4.19E-04 uCi/Sa		Beta: 8.80E-04 uCi/Sa
4 JVGGR-2-AF-X J7D230138-1-DUP 04/20/2007 07:30	AmtRec: 20ML,2X500ML,LP,2X4LP #Containers: 6							Scr: Alpha: -4.19E-04 uCi/Sa		Beta: 8.80E-04 uCi/Sa
5 JVGGX-2-AD J7D230138-2-SAMP 04/20/2007 09:15	AmtRec: 20ML,2X500ML,LP,2X4LP #Containers: 6							Scr: Alpha: -6.40E-04 uCi/Sa		Beta: -9.29E-05 uCi/Sa
6 JVGGX-2-AF-S J7D230138-2-MS 04/20/2007 09:15	AmtRec: 20ML,2X500ML,LP,2X4LP #Containers: 6							Scr: Alpha: -6.40E-04 uCi/Sa		Beta: -9.29E-05 uCi/Sa
7 JVHL3-2-AD J7D240116-1-SAMP 04/23/2007 12:30	AmtRec: 20ML,2X500MLP,LP,2X4LP #Containers: 6							Scr: Alpha: 1.20E-03 uCi/Sa		Beta: -9.30E-05 uCi/Sa

STL RICHLAND

5/31/2007 12:40:57 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:
Pipet #:

AnalyDueDate: 06/04/2007

Batch: 7151386 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

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

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JVHMA-2-AD J7D240116-2-SAMP 04/23/2007 11:17	AmtRec: 20ML,2X500MLP,LP,2X4LP #Containers: 6							Scr:	Alpha: 1.25E-03 uCi/Sa	Beta: -1.28E-03 uCi/Sa
9 JVHP0-2-AD J7D240127-1-SAMP 04/23/2007 12:46	AmtRec: 20ML,500ML,3XLP,4LP #Containers: 6							Scr:	Alpha: 2.97E-04 uCi/Sa	Beta: 4.97E-04 uCi/Sa
10 JV10H-2-AA-B J7E010000-254-BLK 04/20/2007 07:30	AmtRec: #Containers: 1							Scr:	Alpha:	Beta:
11 JV10H-2-AC-C J7E010000-254-LCS 04/20/2007 07:30	AmtRec: #Containers: 1							Scr:	Alpha:	Beta:
12 JV10H-2-AD-B J7E010000-254-BLK 04/20/2007 07:30	AmtRec: #Containers: 1							Scr:	Alpha:	Beta:

Comments:

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

JVC7V2AF-SAMP Constituent List:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20

STL RICHLAND

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Sample Preparation/Analysis

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

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

AnalyDueDate: 06/04/2007

Batch: 7151386 pCi/L
SEQ Batch, Test: None

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

```
JVGGX2AF-MS:

JV10H2AA-BLK:
  Tc-99        RDL:15          pCi/L     LCL:        UCL:        RPD:
JV10H2AC-LCS:
  Tc-99        RDL:15          pCi/L     LCL:70      UCL:130     RPD:20
JV10H2AD-BLK:
  Tc-99        RDL:15          pCi/L     LCL:        UCL:        RPD:
JVC7V2AF-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JVGGX2AF-MS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JV10H2AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JV10H2AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
JV10H2AD-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

STL RICHLAND

7145450

SEVERN TRENT STL

*** RE-COUNT REQUEST ***

DUE DATE 6/4/07

CUSTOMER PGW

ANALYSIS H-3

MATRIX Water

LOT NUMBER JTD240130

SAMPLE DELIVERY GROUP WO5160

OLD BATCH NUMBER 7121260

	LAB SAMPLE ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1)	JVHQTIAA	Dups out
2)	JVHQTIAD	
3)	JV12TIAA	
4)	JV12TIAC	
5)	JV12TIAD	
6)	JV12TIAE	
7)	JV12TIAF	
8)		
9)		
10)		
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18)		
19)		
20)		

STL RICHLAND

5/25/2007 2:54:17 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 06/07/2007 W05160

Batch: 7145450 **WATER** **pCi/L** **PM, Quote: SA , 57671**
SEQ Batch, Test: None

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

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JVHQJ-2-AA J7D240130-1-SAMP 04/23/2007 10:23		AmtRec: 20ML,LP,2X4LP	#Containers: 4			Scr:	Alpha: 5.40E-04 uCi/Sa	Beta: 1.12E-04 uCi/Sa
2 JVHQJ-2-AD-X J7D240130-1-DUP 04/23/2007 10:23		AmtRec: 20ML,LP,2X4LP	#Containers: 4			Scr:	Alpha: 5.40E-04 uCi/Sa	Beta: 1.12E-04 uCi/Sa
3 JV12J-2-AA-B J7E010000-260-BLK 04/23/2007 10:23		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
4 JV12J-2-AC-C J7E010000-260-LCS 04/23/2007 10:23		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
5 JV12J-2-AD-B J7E010000-260-BLK 04/23/2007 10:23		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 JV12J-2-AE-C J7E010000-260-LCS 04/23/2007 10:23		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
7 JV12J-2-AF-B J7E010000-260-BLK 04/23/2007 10:23		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

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5/25/2007 2:54:25 PM

Sample Preparation/Analysis

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

Balance Id:

Pipet #:

AnalyDueDate: 06/07/2007

Sep1 DT/Tm Tech:

Batch: 7145450 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech:

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

Comments:

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

JVHQJ2AA-SAMP Constituent List:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
JV12J2AA-BLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
JV12J2AC-LCS:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
JV12J2AD-BLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
JV12J2AE-LCS:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
JV12J2AF-BLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:

JVHQJ2AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JV12J2AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JV12J2AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JV12J2AD-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JV12J2AE-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JV12J2AF-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

5/24/2007 1:46:27 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:I4 A

Pipet #: _____

AnalyDueDate: 06/04/2007 W05160

Sep1 DT/Tm Tech:

Batch: 7121251 WATER ug/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JVC7V-1-AG J7D200303-1-SAMP Warm use Cavitron 04/19/2007 10:45		25.70g,in AmtRec: 20ML,125ML,2X500ML,2XLP #Containers: 6				Scr: Alpha: 4.84E-03 uCi/Sa 1.2E-01L	Beta: -6.56E-05 uCi/Sa	
2 JVC7V-1-AH-X J7D200303-1-DUP 04/19/2007 10:45		26.10g,in AmtRec: 20ML,125ML,2X500ML,2XLP #Containers: 6				Scr: Alpha: 4.84E-03 uCi/Sa 1.2E-01L	Beta: -6.56E-05 uCi/Sa	
3 JVGGR-1-AE J7D230138-1-SAMP 04/20/2007 07:30		25.00g,in AmtRec: 20ML,2X500ML,LP,2X4LP #Containers: 6				Scr: Alpha: -4.19E-04 uCi/Sa	Beta: 8.80E-04 uCi/Sa	
4 JVGGX-1-AE J7D230138-2-SAMP 04/20/2007 09:15		27.80g,in AmtRec: 20ML,2X500ML,LP,2X4LP #Containers: 6				Scr: Alpha: -6.40E-04 uCi/Sa	Beta: -9.29E-05 uCi/Sa	
5 JVHL3-1-AE J7D240116-1-SAMP 04/23/2007 12:30		25.20g,in AmtRec: 20ML,2X500MLP,LP,2X4LP #Containers: 6				Scr: Alpha: 1.20E-03 uCi/Sa	Beta: -9.30E-05 uCi/Sa	
6 JVHL3-1-AF-S J7D240116-1-MS 04/23/2007 12:30		25.10g,in AmtRec: 20ML,2X500MLP,LP,2X4LP #Containers: 6	UNSF3738 05/09/07,pd 01/23/07,r			Scr: Alpha: 1.20E-03 uCi/Sa	Beta: -9.30E-05 uCi/Sa	
7 JVHMA-1-AE J7D240116-2-SAMP 04/23/2007 11:17		24.70g,in AmtRec: 20ML,2X500MLP,LP,2X4LP #Containers: 6				Scr: Alpha: 1.25E-03 uCi/Sa	Beta: -1.28E-03 uCi/Sa	

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

STL RICHLAND

5/24/2007 1:46:31 PM

Sample Preparation/Analysis

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

Balance Id:I4 A

Pipet #: _____

AnalyDueDate: 06/04/2007

Sep1 DT/Tm Tech:

Batch: 7121251 ug/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JV1X8-1-AA-B J7E010000-251-BLK 04/19/2007 10:45		25.60g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
9 JV1X8-1-AC-C J7E010000-251-LCS 04/19/2007 10:45		25.40g,in AmtRec:	UNSF3739 05/09/07,pd 01/23/07,r #Containers: 1			Scr:	Alpha:	Beta:
10 JV1X8-1-AD-C J7E010000-251-LCS 04/19/2007 10:45		25.10g,in AmtRec:	UNSC1690 05/17/07,pd 04/28/06,r #Containers: 1			Scr:	Alpha:	Beta:

Comments: PH < 2.0 JB 5-24-07

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

JVC7V1AG-SAMP Constituent List:

Uranium	RDL:1.44E-01	ug/L	LCL:	UCL:	RPD:

JVHL31AF-MS:

JV1X81AA-BLK:

Uranium	RDL:1.44E-01	ug/L	LCL:	UCL:	RPD:

JV1X81AC-LCS:

Uranium	RDL:0.144343	ug/L	LCL:70	UCL:130	RPD:20

JV1X81AD-LCS:

Uranium	RDL:0.144343	ug/L	LCL:70	UCL:130	RPD:20

JVC7V1AG-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JVHL31AF-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

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5/24/2007 1:46:35 PM

Sample Preparation/Analysis

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

Balance Id:I4 A

Pipet #:

AnalyDueDate: 06/04/2007

Sep1 DT/Tm Tech:

Batch: 7121251 ug/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BockJ

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

JV1X81AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JV1X81AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JV1X81AD-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

6/7/2007 3:19:51 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/7/2006, 6/12/2007, Batch: '7156527', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7156527						
AC		CalcC	BockJ	6/6/2007 9:47:39 AM		
SC			antonsonl	IsBatched	6/5/2007 4:01:07 PM	ICOC_RADCALC v4.8.26
SC			BockJ	Prep1C	6/6/2007 9:47:39 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	InPrep2	6/6/2007 9:55:26 AM	RICH-RC-5014 REVISION 6
SC			AshworthA	Prep2C	6/7/2007 9:53:16 AM	RICH-RC-5014 REVISION 6
SC			StringerR	InCnt1	6/7/2007 9:57:07 AM	RICH-RD-0003 REVISION 4
SC			StringerR	CalcC	6/7/2007 2:57:02 PM	RICH-RD-0003 REVISION 4
AC			AshworthA	6/6/2007 9:55:26 AM		
AC			AshworthA	6/7/2007 9:53:16 AM		
AC			StringerR	6/7/2007 9:57:07 AM		
AC			StringerR	6/7/2007 2:57:02 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.26

5/31/2007 2:26:05 PM

ICOC Fraction Transfer/Status Report

ByDate: 5/31/2006, 6/5/2007, Batch: '7121249', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7121249						
AC		**Rev1C**	**BockJ**	5/21/2007 8:48:24		
SC			wagarr	IsBatched	5/1/2007 10:31:54 AM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	5/21/2007 8:48:24 AM	RICH-RC-5014 Revision 6
SC			BockJ	Prep1C	5/21/2007 8:57:39 AM	RICH-RC-5014 REVISION 6
SC			ManisD	InPrep2	5/30/2007 10:22:20 AM	RICH-RC-5014 REV 6
SC			ManisD	Sep1C	5/30/2007 5:26:01 PM	RICH-RC-5014 REV 6
SC			DAWKINSO	InCnt1	5/30/2007 5:57:21 PM	RICH-RD-0003 REVISION 4
SC			StringerR	CalcC	5/31/2007 9:07:26 AM	RICH-RD-0003 REVISION 4
SC			NortonJ	Rev1C	5/31/2007 11:43:12 AM	RICHRC0002 REV7
AC			**BockJ**	5/21/2007 8:57:39		
AC			**ManisD**	5/30/2007 10:22:20		
AC			**ManisD**	5/30/2007 5:26:01 PM		
AC			**DAWKINSO**	5/30/2007 5:57:21 PM		
AC			**StringerR**	5/31/2007 9:07:26		
AC			**StringerR**	5/31/2007 9:08:03		
AC			**NortonJ**	5/31/2007 11:43:12		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 8

ICOCFractions v4.8.26

5/31/2007 2:41:18 PM

ICOC Fraction Transfer/Status Report

ByDate: 5/31/2006, 6/5/2007, Batch: '7121255', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7121255						
AC		CalcC	BockJ	5/18/2007 7:44:28		
SC			wagarr	IsBatched	5/1/2007 10:31:54 AM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	5/18/2007 7:44:28 AM	rich-rc-5016 rEVISION 6
SC			BockJ	Prep1C	5/18/2007 8:06:48 AM	RICH-RC-5016 REVISION 6
SC			ManisD	InSep1	5/18/2007 8:12:13 AM	RICH-RC-5006 REVISION 6
SC			ManisD	Sep1C	5/22/2007 5:30:52 PM	RICH-RC-5006 REVISION 6
SC			DAWKINSO	InCnt1	5/22/2007 5:38:35 PM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	Cnt1C	5/22/2007 8:45:18 PM	RICH-RD-0007 REVISION 5
SC			ManisD	Sep2C	5/29/2007 7:00:51 PM	RICH-RC-5071 REVISION 4
SC			DAWKINSO	InCnt2	5/29/2007 7:46:54 PM	RICH-RD-0003 REVISION 4
SC			StringerR	CalcC	5/31/2007 9:07:13 AM	RICH-RD-0003 REVISION 4
AC			**BockJ**	5/18/2007 8:06:48		
AC			**ManisD**	5/18/2007 8:12:13		
AC			**ManisD**	5/22/2007 5:30:52 PM		
AC			**DAWKINSO**	5/22/2007 5:38:35 PM		
AC			**DAWKINSO**	5/22/2007 8:45:18 PM		
AC			**ManisD**	5/29/2007 7:00:51 PM		
AC			**DAWKINSO**	5/29/2007 7:46:54 PM		
AC			**StringerR**	5/31/2007 9:07:13		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 9

ICOCFractions v4.8.26

6/6/2007 8:49:44 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/6/2006, 6/11/2007, Batch: '7121252', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7121252						
AC		**CalcC**	**BockJ**	5/24/2007 10:48:54		
SC			wagarr	IsBatched	5/1/2007 10:31:54 AM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	5/24/2007 10:48:54 AM	rich-rc-5014 rEVISION 6
SC			BockJ	Prep1C	5/24/2007 11:04:53 AM	RICH-RC-5017 REVISION 5
SC			AshworthA	InPrep2	5/30/2007 11:42:13 AM	RICH-RC-5017 REVISION 4
SC			AshworthA	Prep2C	5/31/2007 4:19:51 PM	RICH-RC-5017 REVISION 4
SC			DAWKINSO	InCnt1	5/31/2007 5:02:50 PM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	CalcC	5/31/2007 10:31:17 PM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	InCnt1	6/5/2007 4:52:57 PM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	CalcC	6/5/2007 9:11:13 PM	RICH-RD-0007 REVISION 5
AC			**BockJ**	5/24/2007 11:04:53		
AC			**AshworthA**	5/30/2007 11:42:13		
AC			**AshworthA**	5/31/2007 4:19:51 PM		
AC			**DAWKINSO**	5/31/2007 5:02:50 PM		
AC			**DAWKINSO**	5/31/2007 10:31:17		
AC			**DAWKINSO**	6/5/2007 4:52:57 PM		
AC			**DAWKINSO**	6/5/2007 9:11:13 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 8

ICOCFractions v4.8.26

6/11/2007 1:31:50 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/11/2006, 6/16/2007, Batch: '7121257', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7121257						
AC		CalcC	BockJ	5/29/2007 10:28:26		
SC			wagarr	isBatched	5/1/2007 10:31:54 AM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	5/29/2007 10:28:26 AM	RICH-RC-5016 Revision 6
SC			BostedD	InPrep2	5/30/2007 10:43:04 AM	RICHRC5025 REV3
SC			BostedD	Prep2C	6/8/2007 12:13:15 PM	RICHRC5025 REV3
SC			StringerR	InCnt1	6/8/2007 12:36:48 PM	RICH-RD-0007 REVISION 6
SC			StringerR	CalcC	6/9/2007 2:02:28 PM	RICH-RD-0007 REVISION 6
AC			BostedD	5/30/2007 10:43:04		
AC			BostedD	6/8/2007 12:13:15 PM		
AC			StringerR	6/8/2007 12:36:48 PM		
AC			StringerR	6/9/2007 2:02:28 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.26

5/30/2007 3:31:30 PM

ICOC Fraction Transfer/Status Report

ByDate: 5/30/2006, 6/4/2007, Batch: '7149236', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7149236						
AC		**CalcC**	**BlackCL**	5/29/2007 9:28:06		
SC			BlackCL	InCnt1	5/29/2007 9:28:06 AM	REVISION 3
SC			BlackCL	CalcC	5/30/2007 6:22:14 AM	RICH-RD-0001 REVISION 3
AC			**BlackCL**	5/30/2007 6:22:14		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 2

ICOCFractions v4.8.26

6/4/2007 3:32:30 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/4/2006, 6/9/2007, Batch: '7151386', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7151386						
AC		**CalcC**	**BlackCL**	6/1/2007 12:43:53 PM		
SC			BlackCL	InCnt1	6/1/2007 12:43:53 PM	RICH-RD-0001 REVISION 3
SC			StringerR	CalcC	6/3/2007 12:11:44 PM	RICH-RD-0001 REVISION 3
AC			**StringerR**	6/3/2007 12:11:44 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 2

ICOCFractions v4.8.26

5/29/2007 8:25:39 AM

ICOC Fraction Transfer/Status Report

ByDate: 5/29/2006, 6/3/2007, Batch: '7145450', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7145450						
AC		**CalcC**	**DAWKINSO**	5/25/2007 4:57:18 PM		
SC			DAWKINSO	InCnt1	5/25/2007 4:57:18 PM	RICH-RD-0001 REVISION 3
SC			BlackCL	CalcC	5/28/2007 7:47:33 AM	RICH-RD-0091 REVISION 3
AC			**BlackCL**	5/28/2007 7:47:33		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 2

ICOCFractions v4.8.26

6/5/2007 9:39:51 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/5/2006, 6/10/2007, Batch: '7121251', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7121251						
AC		**Cnt1C**	**BockJ**	5/24/2007 1:38:09 PM		
SC			wagarr	IsBatched	5/1/2007 10:31:54 AM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep	5/24/2007 1:38:09 PM	rich-rc-5014 rEVISION 6
SC			BockJ	Prep1C	5/24/2007 1:46:30 PM	RICH-RC-5015 REVISION 4
SC			AshworthA	InPrep2	5/30/2007 10:30:12 AM	RICH-RC-5015 REVISION 4
SC			AshworthA	Prep2C	5/31/2007 2:27:21 PM	RICH-RC-5015 REVISION 4
SC			NelsonT	Cnt1C	5/31/2007 3:45:09 PM	RICH-RC-5058 REV 7
AC			**BockJ**	5/24/2007 1:46:30 PM		
AC			**AshworthA**	5/30/2007 10:30:12		
AC			**AshworthA**	5/31/2007 2:27:21 PM		
AC			**NelsonT**	5/31/2007 3:45:09 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.26