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Analytical Data Package Prepared For

Fluor Hanford

Radiochemical Analysis By

TAL Richland TARL

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

Data Package Contains 103 Pages

Report Nbr: 37557

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05243	I07-066	B1PDY6	J7J020155-1	J72371AA	9J723710	7296623
		B1PDY6	J7J020155-1	J72371AC	9J723710	7296624
		B1PDY6	J7J020155-1	J72371AD	9J723710	7296622
		B1PDY6	J7J020155-1	J72372AA	9J723720	7296623
		B1PDY5	J7J020155-2	J724G1AA	9J724G10	7296623
		B1PDY5	J7J020155-2	J724G1AC	9J724G10	7296624
		B1PDY5	J7J020155-2	J724G1AD	9J724G10	7296622
	I07-062	B1P5Y2	J7J020162-1	J725P1AA	9J725P10	7296620
		B1P5X7	J7J020303-1	J74AJ1AA	9J74AJ10	7296620
		B1P5X7	J7J020303-1	J74AJ1AC	9J74AJ10	7296622
		B1P5X7	J7J020303-1	J74AJ1AD	9J74AJ10	7296615
		B1P5X7	J7J020303-1	J74AJ1AE	9J74AJ10	7296614
	S07-007	B1NXB8	J7J020306-1	J74CF1AA	9J74CF10	7296620
	S07-001	B1LP37	J7J020321-1	J74GH1AA	9J74GH10	7296615
	S07-005	B1N3N8	J7J020332-1	J74H61AA	9J74H610	7296620

Comments:

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Report Nbr: 37557

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05243	W07-005	B1N566	J7J030382-1	J77FG1AA	9J77FG10	7296621
		B1N566	J7J030382-1	J77FG1AC	9J77FG10	7296615
	S07-006	B1NKK2	J7J100271-1	J8L8L1AA	9J8L8L10	7296620
		B1NKK3	J7J100271-2	J8L8W1AA	9J8L8W10	7296620
	S07-008	B1P6W4	J7J120328-1	J8WAD1AA	9J8WAD10	7296618
		B1P6W4	J7J120328-1	J8WAD1AC	9J8WAD10	7296620
		B1P6W4	J7J120328-1	J8WAD1AD	9J8WAD10	7296615
		B1P6W4	J7J120328-1	J8WAD1AE	9J8WAD10	7296614
		B1P6W3	J7J120328-2	J8WA21AA	9J8WA210	7296618
		B1P6W3	J7J120328-2	J8WA21AC	9J8WA210	7296620
		B1P6W3	J7J120328-2	J8WA21AD	9J8WA210	7296615
		B1P6W3	J7J120328-2	J8WA21AE	9J8WA210	7296614

Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

November 28, 2007

Attention: Steve Trent

SAF Number	:	I07-066, I07-062, S07-007, S07-001 S07-0052, W07-005, S07-006, S07-008
Date SDG Closed	:	October 22, 2007
Number of Samples	:	Eleven (11)
Sample Type	:	Water
SDG Number	:	W05243
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between October 1, 2007 and October 22, 2007 eleven water samples were received at TestAmerica Laboratories Richland (TALR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Fluor Hanford specific IDs:

PGW ID#	STLR ID#	DATE OF RECEIPT	MATRIX
B1PDY6	J7237	10/1/07	WATER
B1PDY5	J724G	10/1/07	WATER
B1P5Y2	J725P	10/1/07	WATER
B1P5X7	J74AJ	10/2/07	WATER
B1NXB8	J74CF	10/2/07	WATER
B1LP37	J74GH	10/2/07	WATER
B1N3N8	J74H6	10/2/07	WATER
B1N566	J77FG	10/3/07	WATER
B1NKK2	J8L8L	10/9/07	WATER
B1NKK3	J8L8W	10/9/07	WATER
B1P6W4	J8WAD	10/12/07	WATER
B1P6W3	J8WA2	10/12/07	WATER

II. Sample Receipt

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

III. Analytical Results/Methodology

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

The requested analyses were:

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

IV. Quality Control

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

QC and sample results are reported in the same units.

V. Comments

Gas Proportional Counting
Gross Alpha by method RICH-RC-5014:
In the original analysis the sample and duplicate did not match. They were recounted with good results. Except as noted, the LCS, batch blank, samples and sample duplicate (B1PDY6) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:
The samples did not meet CRDL due to reduced aliquots based on weight screens. The results exceed the achieved MDA. Data is accepted. Except as noted, the LCS, batch blank, samples and sample duplicate (B1PDY5) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006

The LCS, batch blank, samples and sample duplicate (B1P5X7) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec by method RICH-RC-5017:

The LCS, batch blank, samples and sample duplicate (B1P6W4) results are within contractual requirements.

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

The LCS, batch blank, samples and sample duplicate (B1NXB8) results are within contractual requirements.

Liquid Scintillation Counting

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

The LCS, batch blank, samples, sample duplicate (B1LP37), and sample matrix spike (B1N566) results are within contractual requirements.

Tritium by method RICH-RC-5007:

The LCS, batch blank, samples and sample duplicate (B1N566) results are within contractual requirements.

Laser Induced Phosphorimetry

Total Uranium by method RICH-RC-5058:

The LCS, batch blank, samples, sample duplicate (B1P5X7), and sample matrix spike (B1P6W4) results are within contractual requirements.

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

Reviewed and approved:

Sherry A. Adam
Project Manager

Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	**Isotope(s)**	**STL Richland's SOP number**
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 00-02	Gross Alpha (Coprecipitation)	RICH-RC-5021
EPA 903.0	Total Alpha Radium (Ra-226)	RICH-RC-5027
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr-89/90	RICH-RC-5006
ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007

Uncertainty Estimation

Test America 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/?n), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

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

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or STL Richland.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) ***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.

11/28/2007 3:52:21 PM

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 37557 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.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:
9J723710	B1PDY6		MW6-SBB-A1	I07-066	W05243					09/30/2007 10:08

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7296623	ALPHA	12587-46-1	6.87E+00	pCi/L	2.3E+00	2.8E+00		2.51E+00	100.0	9310_ALPHABETA	6.65E-02	L	11/19/2007 18:37	I
7296624	BETA	12587-47-2	2.46E+03	pCi/L	3.3E+01	3.9E+02		8.04E+00	100.0	9310_ALPHABETA	4.94E-02	L	11/19/2007 19:14	I
7296622	SR-90	10098-97-2	1.36E+03	pCi/L	8.1E+00	1.9E+02		7.37E-01	68.5	SRISO_SEP_PRE	8.33E-01	L	11/16/2007 06:50	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:
9J723720	B1PDY6		MW6-SBB-A1	I07-066	W05243					09/30/2007 10:08

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7296623	ALPHA	12587-46-1	9.73E+00	pCi/L	2.6E+00	3.5E+00		2.41E+00	100.0	9310_ALPHABETA	6.65E-02	L	11/22/2007 12:45	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J724G10	B1PDY5		MW6-SBB-A1	I07-066	W05243					09/30/2007 10:08

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7296623	ALPHA	12587-46-1	1.07E+01	pCi/L	2.7E+00	3.6E+00		2.04E+00	100.0	9310_ALPHABETA	6.62E-02	L	11/19/2007 18:37	I
7296624	BETA	12587-47-2	2.30E+03	pCi/L	3.2E+01	2.9E+02		7.62E+00	100.0	9310_ALPHABETA	5.18E-02	L	11/19/2007 19:14	I
7296622	SR-90	10098-97-2	1.46E+03	pCi/L	8.7E+00	2.1E+02		7.45E-01	60.7	SRISO_SEP_PRE	1.00E+00	L	11/16/2007 08:28	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:
9J725P10	B1P5Y2		MW6-SBB-A1	I07-062	W05243					09/30/2007 13:32

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7296620	I-129L	15046-84-1	6.21E-02	pCi/L	1.2E-01	1.2E-01	U	2.48E-01	93.8	I129LL_SEP_LEPS	3.8926E+00	L	11/27/2007 17:14	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:
9J74AJ10	B1P5X7		MW6-SBB-A1	I07-062	W05243					10/02/2007 09:12

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7296620	I-129L	15046-84-1	-1.76E-02	pCi/L	1.2E-01	1.2E-01	U	2.26E-01	101.9	I129LL_SEP_LEPS	3.8827E+00	L	11/27/2007 17:14	I
7296622	SR-90	10098-97-2	-8.53E-02	pCi/L	2.2E-01	2.4E-01	U	5.38E-01	75.8	SRISO_SEP_PRE	1.00E+00	L	11/16/2007 06:50	I
7296615	TC-99	14133-76-7	8.41E-01	pCi/L	4.3E+00	6.2E+00	U	1.02E+01	100.0	TC99_ETVDSK_LS	1.254E-01	L	11/15/2007 19:15	I
7296614	Uranium	7440-61-1	6.85E-01	ug/L	7.0E-02	7.0E-02		8.35E-02		UTOT_KPA	2.509E-02	ML	11/26/2007 09:07	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:

TAL 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.

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 37557 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

9J74CF10 B1NXB8 MW6-SBB-A1 S07-007 W05243 10/02/2007 11:24

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7296620	I-129L	15046-84-1	7.64E-02	pCi/L	1.4E-01	1.4E-01	U	2.75E-01	95.4	I129LL_SEP_LEPS	3.8743E+00	L	11/27/2007 17:15	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:
9J74GH10	B1LP37		MW6-SBB-A1	S07-001	W05243					10/02/2007 09:42

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7296615	TC-99	14133-76-7	1.13E+02	pCi/L	7.1E+00	1.3E+01		1.01E+01	100.0	TC99_ETVDSK_LS	1.2589E-01	L	11/15/2007 20:18	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:
9J74H610	B1N3N8		MW6-SBB-A1	S07-005	W05243					10/02/2007 11:43

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7296620	I-129L	15046-84-1	1.92E-01	pCi/L	1.7E-01	1.7E-01	U	3.38E-01	93.0	I129LL_SEP_LEPS	3.8952E+00	L	11/27/2007 18:59	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:
9J77FG10	B1N566		MW6-SBB-A1	W07-005	W05243					10/03/2007 10:40

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7296621	H-3	10028-17-8	5.34E+03	pCi/L	2.7E+02	3.6E+02		3.14E+02	100.0	906.0_H3_LSC	5.00E-03	L	10/27/2007 18:33	I
7296615	TC-99	14133-76-7	7.61E+01	pCi/L	6.3E+00	1.1E+01		1.02E+01	100.0	TC99_ETVDSK_LS	1.2514E-01	L	11/15/2007 22:23	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J8L8L10	B1NKK2		MW6-SBB-A1	S07-006	W05243					10/09/2007 08:46

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7296620	I-129L	15046-84-1	-9.53E-02	pCi/L	1.2E-01	1.2E-01	U	1.98E-01	94.3	I129LL_SEP_LEPS	3.8832E+00	L	11/27/2007 19:00	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:
9J8L8W10	B1NKK3		MW6-SBB-A1	S07-006	W05243					10/09/2007 08:46

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7296620	I-129L	15046-84-1	6.47E-02	pCi/L	1.4E-01	1.4E-01	U	2.78E-01	87.6	I129LL_SEP_LEPS	3.8981E+00	L	11/27/2007 20:46	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:
9J8WA210	B1P6W3		MW6-SBB-A1	S07-008	W05243					10/12/2007 10:44

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7296618	BE-7	13966-02-4	-7.27E+00	pCi/L	1.7E+01	1.7E+01	U	3.01E+01		GAMMALL_GS	1.9995E+00	L	11/21/2007 15:56	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.

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 37557 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

7296618	CO-60	10198-40-0	-1.37E-01	pCi/L	1.6E+00	1.6E+00	U	2.90E+00		GAMMALL_GS	1.9995E+00	L	11/21/2007	15:56	I
7296618	CS-134	13967-70-9	8.45E-01	pCi/L	1.8E+00	1.8E+00	U	3.35E+00		GAMMALL_GS	1.9995E+00	L	11/21/2007	15:56	I
7296618	CS-137	10045-97-3	-1.18E+00	pCi/L	1.6E+00	1.6E+00	U	2.53E+00		GAMMALL_GS	1.9995E+00	L	11/21/2007	15:56	I
7296618	EU-152	14683-23-9	-1.07E+00	pCi/L	3.7E+00	3.7E+00	U	6.49E+00		GAMMALL_GS	1.9995E+00	L	11/21/2007	15:56	I
7296618	EU-154	15585-10-1	2.69E+00	pCi/L	5.1E+00	5.1E+00	U	1.01E+01		GAMMALL_GS	1.9995E+00	L	11/21/2007	15:56	I
7296618	EU-155	14391-16-3	2.53E+00	pCi/L	3.4E+00	3.4E+00	U	6.41E+00		GAMMALL_GS	1.9995E+00	L	11/21/2007	15:56	I
7296618	K-40	13966-00-2	1.49E-01	pCi/L	4.2E+01	4.2E+01	U	2.74E+01		GAMMALL_GS	1.9995E+00	L	11/21/2007	15:56	I
7296618	RU-106	13967-48-1	-1.57E+01	pCi/L	1.5E+01	1.5E+01	U	2.41E+01		GAMMALL_GS	1.9995E+00	L	11/21/2007	15:56	I
7296618	SB-125	14234-35-6	-5.71E-01	pCi/L	3.8E+00	3.8E+00	U	6.54E+00		GAMMALL_GS	1.9995E+00	L	11/21/2007	15:56	I
7296620	I-129L	15046-84-1	2.65E-01	pCi/L	1.8E-01	1.8E-01	U	3.60E-01	105.9	I129LL_SEP_LEPS	3.9124E+00	L	11/27/2007	20:47	I
7296615	TC-99	14133-76-7	7.46E+00	pCi/L	4.5E+00	6.6E+00	U	1.03E+01	100.0	TC99_ETVDSK_LS	1.2516E-01	L	11/16/2007	01:30	I
7296614	Uranium	7440-61-1	3.66E+00	ug/L	3.7E-01	3.7E-01		8.36E-02		UTOT_KPA	2.506E-02	ML	11/26/2007	09:17	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:
9J8WAD10	B1P6W4		MW6-SBB-A1	S07-008	W05243					10/12/2007 07:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7296618	BE-7	13966-02-4	1.84E+01	pCi/L	2.6E+01	2.6E+01	U	4.83E+01		GAMMALL_GS	1.9752E+00	L	11/21/2007	15:55	I
7296618	CO-60	10198-40-0	1.67E+00	pCi/L	1.9E+00	1.9E+00	U	4.03E+00		GAMMALL_GS	1.9752E+00	L	11/21/2007	15:55	I
7296618	CS-134	13967-70-9	1.18E+00	pCi/L	2.0E+00	2.0E+00	U	3.86E+00		GAMMALL_GS	1.9752E+00	L	11/21/2007	15:55	I
7296618	CS-137	10045-97-3	8.59E-02	pCi/L	2.0E+00	2.0E+00	U	3.51E+00		GAMMALL_GS	1.9752E+00	L	11/21/2007	15:55	I
7296618	EU-152	14683-23-9	9.89E-01	pCi/L	5.7E+00	5.7E+00	U	1.01E+01		GAMMALL_GS	1.9752E+00	L	11/21/2007	15:55	I
7296618	EU-154	15585-10-1	2.36E+00	pCi/L	4.6E+00	4.6E+00	U	9.36E+00		GAMMALL_GS	1.9752E+00	L	11/21/2007	15:55	I
7296618	EU-155	14391-16-3	-6.86E-01	pCi/L	4.0E+00	4.0E+00	U	6.96E+00		GAMMALL_GS	1.9752E+00	L	11/21/2007	15:55	I
7296618	K-40	13966-00-2	-3.21E+01	pCi/L	4.8E+01	4.8E+01	U	1.01E+02		GAMMALL_GS	1.9752E+00	L	11/21/2007	15:55	I
7296618	RU-106	13967-48-1	7.51E+00	pCi/L	1.9E+01	1.9E+01	U	3.42E+01		GAMMALL_GS	1.9752E+00	L	11/21/2007	15:55	I
7296618	SB-125	14234-35-6	3.42E+00	pCi/L	5.3E+00	5.3E+00	U	9.62E+00		GAMMALL_GS	1.9752E+00	L	11/21/2007	15:55	I
7296620	I-129L	15046-84-1	2.61E-01	pCi/L	2.6E-01	2.6E-01	U	3.13E-01	88.4	I129LL_SEP_LEPS	3.9281E+00	L	11/27/2007	20:47	I
7296615	TC-99	14133-76-7	1.59E+00	pCi/L	4.3E+00	6.2E+00	U	1.02E+01	100.0	TC99_ETVDSK_LS	1.2572E-01	L	11/16/2007	00:28	I
7296614	Uranium	7440-61-1	0.00E+00	ug/L	0.0E+00	0.0E+00	U	8.34E-02		UTOT_KPA	2.513E-02	ML	11/26/2007	09:10	I

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

Wednesday, November 28, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J9M611AB	**Sdg/Rept Nbr:**	W05243	37557	**Collection Date:** 10/02/2007 11:24
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 10/02/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7296620	I-129L	3.71E-02	pCi/L	1.3E-01	U	2.55E-01	95.1		I129LL_SEP_L	4.0006E+00	11/27/2007				D
BLK	15046-84-1			1.3E-01						L	22:35				

TAL 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.

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Wednesday, November 28, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J9M621AB	**Sdg/Rept Nbr:**	W05243 37557	**Collection Date:**	10/03/2007 10:40
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	10/03/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7296621	H-3	1.21E+02	pCi/L	1.5E+02	U	3.15E+02	100.0		906.0_H3_LSC	5.00E-03	10/27/2007				D
BLK	10028-17-8			1.3E+02						L	13:03				

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

Wednesday, November 28, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J9M621DX	**Sdg/Rept Nbr:**	W05243 37557	**Collection Date:**	10/03/2007 10:40
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	10/03/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7296621	H-3	1.62E+02	pCi/L	1.5E+02	U	3.21E+02	100.0		906.0_H3_LSC	5.00E-03	10/27/2007				D
BLK	10028-17-8			1.4E+02						L	15:48				

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.

Wednesday, November 28, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J9M631AB	**Sdg/Rept Nbr:**	W05243	37557	**Collection Date:** 10/02/2007 09:12
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 10/02/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7296622	SR-90	4.12E-01	pCi/L	2.9E-01	U	5.68E-01	71.9		SRISO_SEP_P	1.00E+00	11/16/2007				D
BLK	10098-97-2			2.8E-01						L	06:50				

TAL 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.

Wednesday, November 28, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J9M641AB	**Sdg/Rept Nbr:**	W05243 37557	**Collection Date:**	09/30/2007 10:08
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	10/01/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7296623	ALPHA	-4.01E-02	pCi/L	1.3E-01	U	3.44E-01	100.0		9310_ALPHAB	2.021E-01	11/19/2007				D
BLK	12587-46-1			1.3E-01						L	18:37				

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.

Wednesday, November 28, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J9M661AB	**Sdg/Rept Nbr:**	W05243 37557	**Collection Date:**	09/30/2007 10:08
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	10/01/2007

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
7296624	BETA	3.73E-01	pCi/L	9.4E-01	U	1.88E+00	100.0		9310_ALPHAB	2.033E-01	11/19/2007				D
BLK	12587-47-2			9.4E-01						L	19:14				

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

Wednesday, November 28, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J9M6N1AB	**Sdg/Rept Nbr:**	W05243 37557	**Collection Date:**	10/02/2007 09:12
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	10/02/2007

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
7296614	Uranium	1.54E-03	ug/L	6.6E-04	U	8.35E-02			UTOT_KPA	2.51E-02	11/26/2007				D
BLK	7440-61-1			6.6E-04						ML	08:43				

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

Wednesday, November 28, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J9M6Q1AB	**Sdg/Rept Nbr:**	W05243 37557	**Collection Date:**	10/02/2007 09:42
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	10/02/2007

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
7296615	TC-99	5.93E+00	pCi/L	6.5E+00	U	1.03E+01	100.0		TC99_ETVDSK	1.2505E-01	11/16/2007				D
BLK	14133-76-7			4.4E+00						L	02:32				

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

Wednesday, November 28, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J9M6W1AB	**Sdg/Rept Nbr:**	W05243	37557	**Collection Date:** 10/12/2007 07:30
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 10/12/2007

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
7296618	BE-7	4.49E-01	pCi/L	1.2E+01	U	2.20E+01			GAMMALL_GS	2.0011E+00	11/21/2007				D
BLK	13966-02-4			1.2E+01						L	15:57				
7296618	CO-60	5.79E-01	pCi/L	1.3E+00	U	2.55E+00			GAMMALL_GS	2.0011E+00	11/21/2007				D
BLK	10198-40-0			1.3E+00						L	15:57				
7296618	CS-134	-1.66E-01	pCi/L	9.8E-01	U	1.77E+00			GAMMALL_GS	2.0011E+00	11/21/2007				D
BLK	13967-70-9			9.8E-01						L	15:57				
7296618	CS-137	7.78E-01	pCi/L	1.0E+00	U	1.97E+00			GAMMALL_GS	2.0011E+00	11/21/2007				D
BLK	10045-97-3			1.0E+00						L	15:57				
7296618	EU-152	1.02E-01	pCi/L	2.5E+00	U	4.47E+00			GAMMALL_GS	2.0011E+00	11/21/2007				D
BLK	14683-23-9			2.5E+00						L	15:57				
7296618	EU-154	-2.45E+00	pCi/L	3.4E+00	U	5.69E+00			GAMMALL_GS	2.0011E+00	11/21/2007				D
BLK	15585-10-1			3.4E+00						L	15:57				
7296618	EU-155	-1.05E+00	pCi/L	2.4E+00	U	4.04E+00			GAMMALL_GS	2.0011E+00	11/21/2007				D
BLK	14391-16-3			2.4E+00						L	15:57				
7296618	K-40	7.58E+01	pCi/L	2.1E+01	U	4.47E+01			GAMMALL_GS	2.0011E+00	11/21/2007				D
BLK	13966-00-2			2.1E+01						L	15:57				
7296618	RU-106	1.32E+00	pCi/L	9.7E+00	U	1.76E+01			GAMMALL_GS	2.0011E+00	11/21/2007				D
BLK	13967-48-1			9.7E+00						L	15:57				
7296618	SB-125	1.11E+00	pCi/L	2.6E+00	U	4.76E+00			GAMMALL_GS	2.0011E+00	11/21/2007				D
BLK	14234-35-6			2.6E+00						L	15:57				

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.

Wednesday, November 28, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J9M611CS	**Sdg/Rept Nbr:**	W05243 37557	**Collection Date:**	10/02/2007 11:24
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	10/02/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7296620	I-129L	8.72E+00	pCi/L	1.1E+00		3.86E-01	95.3	9.51E+00	I129LL_SEP_L	4.0008E+00	11/27/2007			70	D
BS	15046-84-1			1.1E+00				91.7		L	22:36			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.

Wednesday, November 28, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J9M621CS	**Sdg/Rept Nbr:**	W05243 37557	**Collection Date:**	10/03/2007 10:40
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	10/03/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7296621	H-3	2.65E+03	pCi/L	2.6E+02		3.16E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	10/27/2007			70	D
BS	10028-17-8			2.1E+02				97.5		L	14:26			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.

Wednesday, November 28, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J9M621EM	**Sdg/Rept Nbr:**	W05243 37557	**Collection Date:**	10/03/2007 10:40
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	10/03/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7296621	H-3	2.60E+03	pCi/L	2.6E+02		3.17E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	10/27/2007			70	D
BS	10028-17-8			2.1E+02				95.6		L	17:10			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.

Wednesday, November 28, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J9M631CS	**Sdg/Rept Nbr:**	W05243	37557	**Collection Date:** 10/02/2007 09:12
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 10/02/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7296622	SR-90	1.45E+01	pCi/L	2.2E+00		6.38E-01	73.4	1.37E+01	SRISO_SEP_P	1.00E+00	11/16/2007			70	D
BS	10098-97-2			7.9E-01				105.5		L	07:34			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.

Wednesday, November 28, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J9M641CS	**Sdg/Rept Nbr:**	W05243 37557	**Collection Date:**	09/30/2007 10:08
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	10/01/2007

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
7296623	ALPHA	1.71E+01	pCi/L	4.2E+00		3.46E-01	100.0	2.22E+01	9310_ALPHAB	2.048E-01	11/19/2007			70	D
BS	12587-46-1			1.3E+00				77.2		L	18:37			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.

Wednesday, November 28, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id: J9M661CS **Sdg/Rept Nbr:** W05243 37557 **Collection Date:** 09/30/2007 10:08

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 10/01/2007

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
7296624	BETA	2.01E+01	pCi/L	3.0E+00		1.78E+00	100.0	2.27E+01	9310_ALPHAB	1.993E-01	11/19/2007			70	D
BS	12587-47-2			1.7E+00				88.2		L	19:14			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.

Wednesday, November 28, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J9M6N1CS	**Sdg/Rept Nbr:**	W05243 37557	**Collection Date:**	10/02/2007 09:12
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	10/02/2007

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
7296614	Uranium	3.46E+01	ug/L	4.1E+00		8.35E-02		3.61E+01	UTOT_KPA	2.511E-02	11/26/2007			70	D
BS	7440-61-1			4.1E+00				96.0		ML	09:03			130	

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

Wednesday, November 28, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J9M6N1DS	**Sdg/Rept Nbr:**	W05243 37557	**Collection Date:**	10/02/2007 09:12
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	10/02/2007

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
7296614	Uranium	3.52E+00	ug/L	3.6E-01		8.36E-02		3.59E+00	UTOT_KPA	2.508E-02	11/26/2007			70	D
BS	7440-61-1			3.6E-01				98.1		ML	09:05			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.

Wednesday, November 28, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J9M6Q1CS	**Sdg/Rept Nbr:**	W05243 37557	**Collection Date:**	10/02/2007 09:42
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	10/02/2007

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
7296615	TC-99	4.99E+02	pCi/L	3.6E+01		1.03E+01	100.0	5.40E+02	TC99_ETVDSK	1.251E-01	11/16/2007			70	D
BS	14133-76-7			1.3E+01				92.3		L	03:35			130	

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

Wednesday, November 28, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id: J9M6W1CS **Sdg/Rept Nbr:** W05243 37557 **Collection Date:** 10/12/2007 07:30

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 10/12/2007

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
7296618	CO-60	4.07E+01	pCi/L	7.3E+00		2.91E+00		3.82E+01	GAMMALL_GS	1.9996E+00	11/21/2007			75	D
BS	10198-40-0			7.3E+00				106.6		L	15:58			125	
7296618	CS-137	4.90E+01	pCi/L	8.3E+00		3.23E+00		4.92E+01	GAMMALL_GS	1.9996E+00	11/21/2007			70	D
BS	10045-97-3			8.3E+00				99.5		L	15:58			130	
7296618	EU-152	7.80E+01	pCi/L	1.6E+01		8.47E+00		7.67E+01	GAMMALL_GS	1.9996E+00	11/21/2007			70	D
BS	14683-23-9			1.6E+01				101.7		L	15:58			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.

Wednesday, November 28, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J72371ER	**Sdg/Rept Nbr:**	W05243 37557	**Collection Date:**	09/30/2007 10:08
Client Id:	B1PDY6	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	10/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-066	MW6-SBB-A19981								AN	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
7296623	ALPHA	2.14E+01	pCi/L	6.2E+00		2.88E+00	100.0		9310_ALPHAB	6.52E-02	11/19/2007	102.8	3.3		D
DUP	12587-46-1	6.87E+00		3.9E+00						L	18:37	20.0	3		

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

Wednesday, November 28, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J72372ER	**Sdg/Rept Nbr:**	W05243 37557	**Collection Date:**	09/30/2007 10:08
Client Id:	B1PDY6	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	10/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
107-066	MW6-SBB-A19981								AO	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
7296623	ALPHA	8.66E+00	pCi/L	3.2E+00		2.05E+00	100.0		9310_ALPHAB	6.52E-02	11/22/2007	11.6	0.5		D
DUP	12587-46-1	9.73E+00		2.5E+00						L	12:45	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.

Wednesday, November 28, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J724G1ER	**Sdg/Rept Nbr:**	W05243	37557	**Collection Date:** 09/30/2007 10:08
Client Id:	B1PDY5	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 10/01/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-066	MW6-SBB-A19981								AP	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
7296624	BETA	2.58E+03	pCi/L	4.6E+02		8.27E+00	100.0		9310_ALPHAB	4.72E-02	11/19/2007	11.5	0.9		D
DUP	12587-47-2	2.30E+03		3.5E+01						L	19:14	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.

Wednesday, November 28, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J74AJ1FR	**Sdg/Rept Nbr:**	W05243 37557	**Collection Date:**	10/02/2007 09:12
Client Id:	B1P5X7	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	10/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I07-062	MW6-SBB-A19981								AQ	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
7296614	Uranium	6.64E-01	ug/L	6.8E-02		8.37E-02			UTOT_KPA	2.505E-02	11/26/2007	3.0	0.4		D
DUP	7440-61-1	6.85E-01		6.8E-02						ML	09:08	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.

Wednesday, November 28, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J74AJ1GR	**Sdg/Rept Nbr:**	W05243 37557	**Collection Date:**	10/02/2007 09:12
Client Id:	B1P5X7	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	10/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
107-062	MW6-SBB-A19981								AR	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
7296622	SR-90	1.84E-01	pCi/L	2.7E-01	U	5.65E-01	74.7		SRISO_SEP_P	1.00E+00	11/16/2007	546.5	1.4		D
DUP	10098-97-2	-8.53E-02		2.7E-01						L	06:50	20.0	3		

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

Wednesday, November 28, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J74CF1CR	**Sdg/Rept Nbr:**	W05243 37557	**Collection Date:**	10/02/2007 11:24
Client Id:	B1NXB8	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	10/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-007	MW6-SBB-A19981								AS	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
7296620	I-129L	1.40E-01	pCi/L	1.6E-01	U	3.15E-01	97.0		I129LL_SEP_L	3.9107E+00	11/27/2007	58.7	0.6		D
DUP	15046-84-1	7.64E-02		1.6E-01						L	18:58	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.

Wednesday, November 28, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J74GH1CR	**Sdg/Rept Nbr:**	W05243 37557	**Collection Date:**	10/02/2007 09:42
Client Id:	B1LP37	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	10/02/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-001	MW6-SBB-A19981								AT	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
7296615	TC-99	1.19E+02	pCi/L	1.3E+01		1.02E+01	100.0		TC99_ETVDSK	1.253E-01	11/15/2007	4.7	0.6		D
DUP	14133-76-7	1.13E+02		7.2E+00						L	21:20	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.

Wednesday, November 28, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J77FG1ER	**Sdg/Rept Nbr:**	W05243 37557	**Collection Date:**	10/03/2007 10:40
Client Id:	B1N566	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	10/03/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-005	MW6-SBB-A19981								AV	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7296621	H-3	5.63E+03	pCi/L	3.7E+02		3.16E+02	100.0		906.0_H3_LSC	5.00E-03	10/27/2007	5.2	1.1		D
DUP	10028-17-8	5.34E+03		2.8E+02						L	19:55	20.0	3		

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

Wednesday, November 28, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J8WAD1GR	**Sdg/Rept Nbr:**	W05243	37557	**Collection Date:** 10/12/2007 07:30
Client Id:	B1P6W4	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 10/12/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-008	MW6-SBB-A19981								AX	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7296618	BE-7	-1.84E+00	pCi/L	2.1E+01	U	3.61E+01			GAMMALL_GS	1.9219E+00	11/21/2007	244.3	1.4		D
DUP	13966-02-4	1.84E+01		2.1E+01						L	15:55	20.0	3		
7296618	CO-60	5.18E-01	pCi/L	1.8E+00	U	3.38E+00			GAMMALL_GS	1.9219E+00	11/21/2007	105.1	0.9		D
DUP	10198-40-0	1.67E+00		1.8E+00						L	15:55	20.0	3		
7296618	CS-134	-6.21E-02	pCi/L	1.9E+00	U	3.28E+00			GAMMALL_GS	1.9219E+00	11/21/2007	222.1	0.9		D
DUP	13967-70-9	1.18E+00		1.9E+00						L	15:55	20.0	3		
7296618	CS-137	8.77E-01	pCi/L	1.6E+00	U	2.93E+00			GAMMALL_GS	1.9219E+00	11/21/2007	164.3	0.7		D
DUP	10045-97-3	8.59E-02		1.6E+00						L	15:55	20.0	3		
7296618	EU-152	2.46E+00	pCi/L	4.4E+00	U	7.72E+00			GAMMALL_GS	1.9219E+00	11/21/2007	85.3	0.5		D
DUP	14683-23-9	9.89E-01		4.4E+00						L	15:55	20.0	3		
7296618	EU-154	-1.16E+00	pCi/L	4.8E+00	U	8.57E+00			GAMMALL_GS	1.9219E+00	11/21/2007	588.2	1.		D
DUP	15585-10-1	2.36E+00		4.8E+00						L	15:55	20.0	3		
7296618	EU-155	7.65E-01	pCi/L	4.4E+00	U	7.62E+00			GAMMALL_GS	1.9219E+00	11/21/2007	3679.1	0.5		D
DUP	14391-16-3	-6.86E-01		4.4E+00						L	15:55	20.0	3		
7296618	K-40	-1.43E+01	pCi/L	5.3E+01	U	1.09E+02			GAMMALL_GS	1.9219E+00	11/21/2007	0.0	0.5		D
DUP	13966-00-2	-3.21E+01		5.3E+01						L	15:55	20.0	3		
7296618	RU-106	-2.55E+00	pCi/L	1.5E+01	U	2.56E+01			GAMMALL_GS	1.9219E+00	11/21/2007	406.3	1.		D
DUP	13967-48-1	7.51E+00		1.5E+01						L	15:55	20.0	3		
7296618	SB-125	-1.79E+00	pCi/L	4.1E+00	U	6.91E+00			GAMMALL_GS	1.9219E+00	11/21/2007	639.9	1.8		D
DUP	14234-35-6	3.42E+00		4.1E+00						L	15:55	20.0	3		

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

Wednesday, November 28, 2007

TAL Richland Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J77FG1DW	**Sdg/Rept Nbr:**	W05243	37557	**Collection Date:** 10/03/2007 10:40
Client Id:	B1N566	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	MS		**Received Date:** 10/03/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W07-005	MW6-SBB-A19981								AU	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
7296615	TC-99	3.46E+03	pCi/L	2.1E+02		1.03E+01	100.0	3.60E+03	TC99_ETVDSK	1.2536E-01	11/15/2007			60	D
MS	14133-76-7			3.2E+01				96.0		L	23:25			140	

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

Wednesday, November 28, 2007

TAL Richland Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05243.Edd, h:\Reportdb\edd\FeadIV\Rad\37557.Edd

Lab Sample Id:	J8WAD1FW	**Sdg/Rept Nbr:**	W05243	37557	**Collection Date:** 10/12/2007 07:30
Client Id:	B1P6W4	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	MS		**Received Date:** 10/12/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S07-008	MW6-SBB-A19981								AW	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7296614	Uranium	3.44E+01	ug/L	4.1E+00		8.36E-02		3.61E+01	UTOT_KPA	2.508E-02	11/26/2007			60	D
MS	7440-61-1			4.1E+00				95.2		ML	09:15			140	

TAL 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 STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/26/2007 1:12:03 PM

Lot No., Due Date: J7J020155; 12/06/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7296623; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05243; 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:

Recount of duplicate and its sample - NCM

First Level Review [signature] **Date** 11/26/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7296623
W05243

Review Item	Yes (√)	No (√)	NA (√)
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 within contract acceptance criteria?	/		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	/		
7. Do the MS/MSD results and yields meet acceptance criteria?			/
8. Do the duplicate sample results and yields meet acceptance criteria?	/		
C. Other 1. Are all Non-conformances included and noted?	/		
2. Are all required forms filled out?	/		
3. Was the correct methodology used?	/		
4. Was transcription checked?	/		
5. Were all calculations checked at a minimum frequency?	/		
6. Were units checked?	/		

Comments on any "No" response: See NCM

Second Level Review: Cheryl A. Adam Date: 11-26-07

LS-038B, Rev. 10, 9/07

TAL RICHLAND

Clouseau
Nonconformance Memo

TestAmerica

NCM #:	10-11311		
NCM Initiated By:	Steven Wheland	Classification:	**Anomaly**
Date Opened:	11/26/2007	Status:	**GLREVIEW**
Date Closed:		Production Area:	Environmental - Prep
		Tests:	Alpha by GPC-Am
		Lot #'s (Sample #'s):	J7J020155 (1,2), J7J230000 (623),
		QC Batches:	7296623,
Nonconformance:	Dups not within acceptance limits		
Subcategory:	Other (explanation required)		

Problem Description / Root Cause

Name	Date	Description
Steven Wheland	11/26/2007	Initially the duplicate and its sample did not meet acceptance criteria. However they were acceptable upon recounting

Corrective Action

Name	Date	Corrective Action
Steven Wheland	11/26/2007	report 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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/20/2007 11:14:52 AM

Lot No., Due Date: J7J020155; 12/06/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7296624; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05243; WATER

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

6.0 Comments on any No response:
Please see NCM#10-11272

First Level Review John Norton **Date** 11-20-7

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7296624
W05243

Review Item	Yes (√)	No (√)	NA (√)
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 within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances 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. Adam Date: 11-21-07

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-11272**
NCM Initiated By: John Norton
Date Opened: 11/20/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Sep
Tests: Beta by GPC-Sr/Y
Lot #'s (Sample #'s): J7J020155 (1,2), J7J230000 (624),
QC Batches: 7296624,

Nonconformance: MDA not met
Subcategory: Data accepted

Problem Description / Root Cause

Name	Date	Description
John Norton	11/20/2007	The samples did not meet the RDL due to reduced aliquot sizes.

Corrective Action

Name	Date	Corrective Action
John Norton	11/20/2007	The activity detected in the samples was greater than the IDC, the data can be accepted.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note

Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/16/2007 1:39:17 PM

Lot No., Due Date: J7J020155,J7J020303; 12/06/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7296622; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05243; WATER

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

6.0 Comments on any No response:

First Level Review John Hoylan **Date** 11-16-7

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 729622
W05243

Review Item	Yes (√)	No (√)	NA (√)
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 within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances 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: 11-16-07

LS-038B, Rev. 10, 9/07

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/26/2007 2:46:50 PM

Lot No., Due Date: J7J120328; 12/06/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7296618; RGAMMA Gamma by GER

SDG, Matrix: W05243; WATER

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

6.0 Comments on any No response:

First Level Review Steven E. Mikelson **Date** 11/26/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 729661 8
W05243

Review Item	Yes (√)	No (√)	NA (√)
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 within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances 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 W. Adam Date: 11-27-07

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/28/2007 1:34:17 PM

Lot No., Due Date: J7J020162,J7J020303,J7J020306,J7J020332,J7J100271,J7J120328; 12/06/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7296620; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05243; WATER

1.0 COC

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

2.0 QC Batch

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

3.0 QC & Samples

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

4.0 Raw Data

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

5.0 Other

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 11/28/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 72946LD
W05243

Review Item	Yes (√)	No (√)	NA (√)
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 within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Sheryl A Adam Date: 11-28-07

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/23/2007 10:55:39 AM

Lot No., Due Date: J7J020303,J7J020321,J7J030382,J7J120328; 12/06/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7296615; RTC99 Tc-99 by LSC

SDG, Matrix: W05243; 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** 11/23/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7L9615

Review Item	Yes (√)	No (√)	NA (√)
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 within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?	✓		
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Sheryl A. Adam Date: 11-23-07

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/23/2007 10:54:36 AM

Lot No., Due Date: J7J030382; 12/06/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7296621; RTRITIUM H-3 by LSC

SDG, Matrix: W05243; 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 Thomas E. Richland **Date** 11/23/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7296621
W05243

Review Item	Yes (√)	No (√)	NA (√)
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 within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?			✓
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Sheryl A Adams Date: 11-23-07

LS-038B, Rev. 10, 9/07

TAL RICHLAND

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/27/2007 11:42:43 AM

Lot No., Due Date: J7J020303,J7J120328; 12/06/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7296614; RUNAT UNat by KPA

SDG, Matrix: W05243; WATER

1.0 COC

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

2.0 QC Batch

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

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

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

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

3.0 QC & Samples

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

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

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

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

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

4.0 Raw Data

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

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

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

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

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

5.0 Other

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

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

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

5.4 Was transcription checked? Yes ✓ No N/A

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

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

6.0 Comments on any No response:

First Level Review Lisa Christenson **Date** 11/27/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7296614
W05243

Review Item	Yes (√)	No (√)	NA (√)
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 within contract acceptance criteria?	✓		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
7. Do the MS/MSD results and yields meet acceptance criteria?	✓		
8. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Non-conformances 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 Wilson Date: 11-27-07

TAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J7J020155 W05243 Due 11-15-07	C.O.C. # I07-066-48 Page 1 of 1

Collector F. H. Hall Fluor Hanford Inc	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. I07-066	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 100NR2IAM-LOI SEPTEMBER 2007	HNF-N-506 11	Ice Chest No. GRP-03-019 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 samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
All SDG?s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PDY6		W	9/30/07	1006	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1PDY6		W	↓	↓	1x20-mL P	Activity Scan	None
B1PDY6		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						J7237	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F. H. Hall Fluor Hanford Inc			1050 OCT 01 2007	Dave Williamson Fluor Hanford			1050 OCT 01 2007
Dave Williamson Fluor Hanford			1440 OCT 01 2007			S. Smith	1440 OCT 01 2007

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

TAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST JTJ020155 W05243 Due 11.15.07	C.O.C. # I07-066-47 Page 1 of 1

Collector F. H. Hall, Fluor Hanford Inc	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. I07-066	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 100NR2IAM-LOI SEPTEMBER 2007	HNF-N-506 11	Ice Chest No. GRP-03-019 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 samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
All SDG?s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PDY5		W	9/30/07	1008	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1PDY5		W	↓	↓	1x20-mL P	Activity Scan	None
B1PDY5		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						J724G	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F. H. Hall, Fluor Hanford Inc			OCT 01 2007 0930	Dava Williamson, Fluor Hanford			OCT 01 2007 1050
Dava Williamson, Fluor Hanford			OCT 01 2007 1440			S. Smith	OCT 01 2007 1440

Matrix *

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

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10·01·07 1440

Client: PGW SDG #: W05243 NA[ ] SAF #: I07-066 NA [ ]

Work Order Number: JJ020155 Chain of Custody # I07-066-47, 48

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ____ Custody Seals
   - ____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 10·01·07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J020162 W05243 Due 11.15.07

C.O.C. # **I07-062-298**

Page 1 of 1

Collector F. H. Hall ~~Fluor Hanford Inc~~	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I07-062	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2ZP1-LOI, AUGUST 2007	HNF-N-506 11	**Ice Chest No.** GRP-03-019 **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 samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
All SDG?s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1P5Y2		W	4/30/07		1x20-mL P	Activity Scan	None
B1P5Y2		W	↓		2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						J725P	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F. H. Hall, Fluor Hanford Inc			OCT 0 1 2007 1050	Dava Williamson, Fluor Hanford			OCT 0 1 2007 1050
Dava Williamson, Fluor Hanford			OCT 0 1 2007 1440	S. Smith			OCT 0 1 2007 1440
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10-01-07 1440

Client: PGW SDG #: W05243 NA[ ] SAF #: I07-062 NA [ ]

Work Order Number: J7J020162 Chain of Custody # I07-062-298

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   _____ Tape
   _____ Custody Seals
   _____ Hazard Lables
   1 Appropriate Sample Lables
9. Samples are:
   1 In Good Condition
   _____ Broken
   _____ Leaking
   _____ Have Air Bubbles
   (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): Sample time taken from samples

Sample Custodian: L. Smith Date: 10-01-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J020303 W05243 Due 11.16.07

C.O.C. # I07-062-284

Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: 107-062	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2ZP1-LOI, AUGUST 2007	HNF-N-506 5 Pg 39	Ice Chest No.: 595 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 samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.

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

All SDG?s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1P5X7		W	10/2/07	0912	1x20-mL P	Activity Scan	None
B1P5X7		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1P5X7		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1P5X7		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1P5X7		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						J74AJ	

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Fluor Hanford R. T. SICKLE	OCT 02 2007 1230	K. Patterson	OCT 02 2007 1230
K. Patterson	10/2/07 1315	J. L. LWLANE TAL-K	10/2/07 1315

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10-2-07 1315

Client: PGW **SDG #:** W05243 NA[ ] **SAF #:** I07-062 NA [ ]

Work Order Number: J7J020303 **Chain of Custody #** I07-062-284

Shipping Container ID: _____ **Air Bill #** _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ✓ Custody Seals
   - ✓ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: RJ Date: 10-2-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S07-007-104
	JTJ 020306 W05243 Due 11-16-07	Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-007	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV. JULY 2007	HNF-N-506-5 Pg 39	Ice Chest No.: 595 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 samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NXB8		W	10/2/07	1124	1x20-mL P	Activity Scan	None
B1NXB8		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						J74CF	

Relinquished By	Received By
Print: Fluor Hanford R. T. SICKLE Sign: Date/Time: OCT 0 2 2007 1238	Print: R. Hallersa Sign: Date/Time: OCT 0 2 2007 1250
Relinquished By: Date/Time: 10/2/07 1315	Received By: LJLANE TAL-R Date/Time: 10-2-07 1315
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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10-2-07 1315

Client: PGW **SDG #:** W05243 NA[ ] **SAF #:** 507-007 NA [ ]

Work Order Number: J7J020306 **Chain of Custody #** 507-007-104

Shipping Container ID: _____ **Air Bill #** _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ___ Tape
   - ✓ Custody Seals
   - ___ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ___ Broken
   - ___ Leaking
   - ___ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 10-2-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J020321 W05243 Due 11-16-07

C.O.C. # S07-001-354

Page 1 of 1

Collector: Kevin Patterson, Fluor Hanford	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S07-001	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JANUARY 2007	HNF N-506-7	Ice Chest No.: 3TTN6-1 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LP37		W	10-2-07	0942	1x20-mL P	Activity Scan	None
B1LP37		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
						J74GH	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Kevin Patterson, Fluor Hanford			1315 OCT 0 7 2007		LJLANE	TAL-R	1315 OCT 0 7 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

TAL RICHLAND

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10-2-07 1315

Client: PGW **SDG #:** W05243 NA[ ] **SAF #:** S07-001 NA [ ]

Work Order Number: J7J020321 **Chain of Custody #** S07-001-354

Shipping Container ID: _____ **Air Bill #** _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ✓ Custody Seals
   - ✓ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 10-2-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J020332 W05243 Due 11-16-07

C.O.C. # S07-005-122

Page 1 of 1

Collector: Kevin Patterson, Fluor Hanford	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S07-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, MAY 2007	HNF-N-506-7	Ice Chest No.: STING-1 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N3N8		W	10-2-07	1143	1x20-mL P	Activity Scan	None
B1N3N8		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						J74H6	

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Kevin Patterson, Fluor Hanford	OCT 02 2007 1315	LLANE TAL-K	OCT 02 2007 1315

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

TAL RICHLAND

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10-2-07 1315

Client: PGW **SDG #:** W05243 NA[ ] **SAF #:** 507-005 NA [ ]

Work Order Number: J7J020332 **Chain of Custody #** 507-005-122

Shipping Container ID: _____ **Air Bill #** _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ___ Tape
   - ✓ Custody Seals
   - ___ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ___ Broken
   - ___ Leaking
   - ___ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: RJP Date: 10-2-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J050382 W05243 Due 11/14/07

C.O.C. # W07-005-364

Page 1 of 1

Collector: Steve Overdahl, Fluor Hanford	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: W07-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, MAY 2007	HNF-N-506-5	Ice Chest No.: 5-95 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
** **

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N566		W	10.3.07	1040	1x20-mL P	Activity Scan	None
B1N566		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1N566		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						J77FG	

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Steve Overdahl, Fluor Hanford	OCT 03 2007 1253	Kevin Patterson, Fluor Hanford	OCT 03 2007 1353
Kevin Patterson, Fluor Hanford	OCT 03 2007 1450	S. Smith	OCT 03 2007 1450
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liquid	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wire	
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

TAL RICHLAND

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10/03/07 1450

Client: PtW **SDG #:** W05243 NA[ ] **SAF #:** W07-005 NA [ ]

Work Order Number: J7J030382 **Chain of Custody #** W07-005-364

Shipping Container ID: _____ **Air Bill #** _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   _____ Tape
   _____ Custody Seals
   _____ Hazard Lables
   ✓ Appropriate Sample Lables
9. Samples are:
   ✓ In Good Condition
   _____ Broken
   _____ Leaking
   _____ Have Air Bubbles
   (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: L. Smith **Date:** 10/03/07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

FAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J100271 W05343 SS ~~W05246~~ DUE 11-23-07 J8L8L

C.O.C. # S07-006-348

Page 1 of 1

Collector: ~~Fluor Hanford~~ ~~K. B. HULSE~~	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code: FRC96-034 10-4-07
Project Title: SURV. JUNE 2007	HNF-N-506-12	Ice Chest No.: 104 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: SURV	Priority: 45 Days	Offsite Property No.: N/A

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NKK2		W	10/9/07	0846	1x20-mL P	Activity Scan	None
B1NKK2		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
~~Fluor Hanford~~ K. B. HULSE			1315 OCT 09 2007	J.G. Hogan Fluor Hanford			1315 OCT 09 2007
J.G. Hogan ~~Fluor Hanford~~			1420 OCT 09 2007				1420 OCT 09 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J100271 W05246 3 DUE 11-23-07 J8L8W

C.O.C. # S07-006-349

Page 1 of 1

Collector: Fluor Hanford K. B. HULSE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-006	Sampling Origin: Hanford Site	Purchase Order/Charge Code: ERC-96-034 PA 10-9-07
Project Title: SURV. JUNE 2007	HNF-IV-506-12	Ice Chest No.: LO4 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: SURV	Priority: 45 Days	Offsite Property No.: N/A

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1NKK3		W	10/5/07	0846	1x20-mL P	Activity Scan	None
B1NKK3		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K. B. HULSE			1315 OCT 09 2007	J.G. Hogan Fluor Hanford			1315 OCT 09 2007
J.G. Hogan Fluor Hanford			1420 OCT 09 2007				1420 OCT 09 2007

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

TAL RICHLAND

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

DUE 11-23-07

Date/Time Received: 10-9-07 1420

Client: PGW **SDG #:** W0S246 3/4 NA[ ] **SAF #:** 507-006 NA [ ]

Work Order Number: J7J100271 **Chain of Custody #** 507-006-348, -349

Shipping Container ID: _____ **Air Bill #** _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ✓ Custody Seals
   - ____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: KP Date: 10-9-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TAL RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTJ 120328 W05243 Due 11/26/07

C.O.C. # S07-008-25

Page 1 of 1

Collector: Steve Overdahl, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S07-008	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV. AUGUST 2007	HNF-N-506-5	Ice Chest No.: 595 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 samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
All SDG?s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1P6W4		W	101207	0730	1x20-mL P	Activity Scan	None
B1P6W4		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None JTWAD
B1P6W4		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1P6W4		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1P6W4		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

Relinquished By	Date/Time	Received By	Date/Time
Print: Steve Overdahl, Fluor Hanford; Sign: [signature]	OCT 12 2007 1440	Print: [signature]; Sign: [signature]	OCT 12 2007 1440

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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TAL RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S07-008-24
	J7J120328 WO5243 Due 11/26/07	Page 1 of 1

Collector ~~Steve Overdahl~~ Fluor Hanford	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. S07-008	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV. AUGUST 2007	HNF-N-506.5	Ice Chest No. 595 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 samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
All SDG?s are to be sent to Steve Trent, FH

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1P6W3		W	101207		1x20-mL P	Activity Scan	None
B1P6W3		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1P6W3		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2 J8WA2
B1P6W3		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1P6W3		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Steve Overdahl Fluor Hanford		OCT 12 2007	1440		S. Smith	S. Smith OCT 12 2007	1440
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10/12/07 1440

Client: PGW SDG #: W05243 NA[ ] SAF #: S07-008 NA [ ]

Work Order Number: J7J120328 Chain of Custody # S07-008-24,25

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ____ Custody Seals
   - ____ Hazard Lables
   - 1 Appropriate Sample Lables
9. Samples are:
   - 1 In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): No time on COC for sample # B1PGW3 - time taken off sample bottle -

Sample Custodian: L. Smith Date: 10-12-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

11/21/2007 10:43:19 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: 11/15/2007

Sep1 DT/Tm Tech:

Batch: 7296623 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ManisD,AntonsonL

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 J7237-1-AA J7J020155-1-SAMP 09/30/2007 10:08		66.50g,in AmtRec: 20ML,4XLP	#Containers: 5					Scr:	Alpha: 6.00E-04 uCi/Sa	Beta: 4.93E-03 uCi/Sa 7.3E-02L
2 J7237-1-AE-X J7J020155-1-DUP 09/30/2007 10:08		65.20g,in AmtRec: 20ML,4XLP	#Containers: 5					Scr:	Alpha: 6.00E-04 uCi/Sa	Beta: 4.93E-03 uCi/Sa 7.3E-02L
[redacted] J7J020155-1-SAMP 09/30/2007 10:08		66.50g AmtRec: 20ML,4XLP	#Containers: 5	1.5	45.4	200	NA	Scr:	1425 Alpha: 6.00E-04 uCi/Sa	1/22/07 Beta: 4.93E-03 uCi/Sa 7.3E-02L
[redacted] J7J020155-1-DUP 09/30/2007 10:08		65.20g AmtRec: 20ML,4XLP	#Containers: 5		48.1		1.63	Scr:	Alpha: 6.00E-04 uCi/Sa	Beta: 4.93E-03 uCi/Sa 7.3E-02L
5 J724G-1-AA J7J020155-2-SAMP 09/30/2007 10:08		66.20g,in AmtRec: 20ML,4XLP	#Containers: 5					Scr:	Alpha: -1.06E-04 uCi/Sa	Beta: 3.75E-03 uCi/Sa 9.6E-02L
6 J9M64-1-AA-B J7J230000-623-BLK 09/30/2007 10:08		202.10g,in AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:
7 J9M64-1-AC-C J7J230000-623-LCS 09/30/2007 10:08		204.80g,in AmtRec:	ASD4326 10/31/07,pd 06/01/01,r #Containers: 1					Scr:	Alpha:	Beta:

TA 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 ICOC v4.8.29

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TAL RICHLAND

11/17/2007 8:34:13 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 11/15/2007

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

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

Batch: 7296624 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 J7237-1-AC J7J020155-1-SAMP 09/30/2007 10:08		49.40g,in AmtRec: 20ML,4XLP #Containers: 5		1.5	83.7	200	28B	2054	11/19/07 DW	Scr: Alpha: 6.00E-04 uCi/Sa Beta: 4.93E-03 uCi/Sa 7.3E-02L
2 J724G-1-AC J7J020155-2-SAMP 09/30/2007 10:08		51.80g,in AmtRec: 20ML,4XLP #Containers: 5			76.2		28D			Scr: Alpha: -1.06E-04 uCi/Sa Beta: 3.75E-03 uCi/Sa 9.6E-02L
3 J724G-1-AE-X J7J020155-2-DUP 09/30/2007 10:08		47.20g,in AmtRec: 20ML,4XLP #Containers: 5			76.4		31B			Scr: Alpha: -1.06E-04 uCi/Sa Beta: 3.75E-03 uCi/Sa 9.6E-02L
4 J9M66-1-AA-B J7J230000-624-BLK 09/30/2007 10:08		203.30g,in AmtRec: #Containers: 1			0.1	~~50~~ 200 DB 11-19-07	31A			Scr: Alpha: Beta:
5 J9M66-1-AC-C J7J230000-624-LCS 09/30/2007 10:08		199.30g,in AmtRec: #Containers: 1	BESB3157 10/22/07,pd 09/08/06 r		0.5		31D			Scr: Alpha: Beta:

Comments: Reduced due to weight screens
LMA 11/17/07

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

J72371AC-SAMP Constituent List:
BETA RDL:4 pCi/L LCL: UCL: RPD:

11/17/2007 8:34:14 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 11/15/2007

Batch: 7296624 pCi/L
SEQ Batch, Test: None

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

```
J9M661AA-BLK:
  BETA        RDL:4          pCi/L    LCL:       UCL:       RPD:
J9M661AC-LCS:
  Sr-90       RDL:           pCi/L    LCL:70     UCL:130    RPD:20
J72371AC-SAMP Calc Info:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
J9M661AA-BLK:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
J9M661AC-LCS:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

Approved By _____ Date: _____

TAL RICHLAND

11/14/2007 3:59:06 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120373922,1120373922,1120

Pipet #:

AnalyDueDate: 11/15/2007

Sep1 DT/Tm Tech: 11/07/2007 15:16,ManisD

Batch: 7296622 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech: 11/14/2007 09:12,ManisD

SEQ Batch, Test: None

Prep Tech: ManisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J7237-1-AD J7J020155-1-SAMP		833.00g,in	SRTB15451 10/30/07,pd 05/22/07 r		1.5	21.7	100	6A	Clm	11/15	
						11/07/2007 15:16;s1, 11/14/2007		5A	0735	11/16	
09/30/2007 10:08		AmtRec: 20ML,4XLP		#Containers: 5				Scr:	Alpha: 6.00E-04 uCi/Sa	Beta: 4.93E-03 uCi/Sa	7.3E-02L
2 J724G-1-AD J7J020155-2-SAMP		1000.00g,in	SRTB15452 10/30/07,pd 05/22/07 r		1.5	21.9	100	90 6B	~~Clm~~ 0741	11/15	
						11/07/2007 15:16;s1, 11/14/2007		5A	0713	11/16	
09/30/2007 10:08		AmtRec: 20ML,4XLP		#Containers: 5				Scr:	Alpha: -1.06E-04 uCi/Sa	Beta: 3.75E-03 uCi/Sa	9.6E-02L
3 J74AJ-1-AC J7J020303-1-SAMP		1000.03g,in	SRTB15453 10/30/07,pd 05/22/07 r		1.5	22.5	100	6C	Clm	11/15	
						11/07/2007 15:16;s1, 11/14/2007		5B	0735	11/16	
10/02/2007 09:12		AmtRec: 20ML,2X500ML,3XLP,2X4LP		#Containers: 8				Scr:	Alpha: 4.60E-04 uCi/Sa	Beta: -5.40E-04 uCi/Sa	
4 J74AJ-1-AG-X J7J020303-1-DUP		1000.03g,in	SRTB15454 10/30/07,pd 05/22/07 r		1.5	23.4	100	6D	Clm	11/15	
						11/07/2007 15:16;s1, 11/14/2007		5C	0735	11/16	
10/02/2007 09:12		AmtRec: 20ML,2X500ML,3XLP,2X4LP		#Containers: 8				Scr:	Alpha: 4.60E-04 uCi/Sa	Beta: -5.40E-04 uCi/Sa	

TAL RICHLAND

11/14/2007 3:59:07 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:1120373922,1120373922,1120

Pipet #: _____

AnalyDueDate: 11/15/2007

Sep1 DT/Tm Tech: 11/07/2007 15:16,ManisD

Batch: 7296622 pCi/L

Sep2 DT/Tm Tech: 11/14/2007 09:12,ManisD

SEQ Batch, Test: None

Prep Tech: ManisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
5 J9M63-1-AA-B		1000.02g,in	SRTB15455		1.5	22.3	100	5A	0904	11/15/03	
J7J230000-622-BLK			10/30/07,pd								
								5D	0735	11/16/03	
						11/07/2007 15:16;s1, 11/14/2007					
10/02/2007 09:12		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:
6 J9M63-1-AC-C		1000.03g,in	SRSG1396		1.5	23.4	100	5B 6B	0904	11/15/03	
J7J230000-622-LCS			10/22/07,pd								
								11/15 6A	0904	11/16/07 03	
						11/07/2007 15:16;s1, 11/14/2007					
10/02/2007 09:12		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:

Comments:

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

J72371AD-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

J9M631AA-BLK:

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

J9M631AC-LCS:

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

J72371AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J9M631AA-BLK:

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TAL RICHLAND

11/20/2007 5:19:33 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 11/26/2007 W05243

Sep1 DT/Tm Tech:

Batch: 7296618 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ /APA

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J8WAD-1-AA J7J120328-1-SAMP 10/12/2007 07:30		1975.20g,in AmtRec: 20ML,2X500ML,3X4LP #Containers: 6			100mL	200	GH	1915	11/21/07	
								Scr: Alpha: -1.70E-06 uCi/Sa	Beta: 2.09E-06 uCi/Sa	
2 J8WAD-1-AG-X J7J120328-1-DUP 10/12/2007 07:30		1921.90g,in AmtRec: 20ML,2X500ML,3X4LP #Containers: 6					GB			
								Scr: Alpha: -1.70E-06 uCi/Sa	Beta: 2.09E-06 uCi/Sa	
3 J8WA2-1-AA J7J120328-2-SAMP 10/12/2007 10:44		1999.50g,in AmtRec: 20ML,2X500ML,3X4LP #Containers: 6					G 4 11/21/07	1916		
								Scr: Alpha: 1.62E-06 uCi/Sa	Beta: -1.15E-06 uCi/Sa	
4 J9M6W-1-AA-B J7J230000-618-BLK 10/12/2007 07:30		2001.10g,in AmtRec: #Containers: 1					G 11	1917		
								Scr: Alpha:	Beta:	
5 J9M6W-1-AC-C J7J230000-618-LCS 10/12/2007 07:30		1999.60g,in AmtRec: #Containers: 1	qcag1421 10/31/07,pd 03/07/05,r				G5	1918		
								Scr: Alpha:	Beta:	

Comments: pH < 2.0 JB 11-20-07

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

J8WAD1AA-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:

11/23/2007 10:49:35 AM

Sample Preparation/Analysis

Balance Id:2113224201

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 11/15/2007 WO 5243

Sep1 DT/Tm Tech:

Batch: 7296620 WATER pCi/L
SEQ Batch, Test: None All Tests: 7296620 BNTB,

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech: ,ClarkR

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 J725P-1-AA J7J020162-1-SAMP 09/30/2007 13:32	AmtRec: 20ML,2X4LP #Containers: 3	3892.60g,in	ITA6748 11/08/07		34.7	100	L2	1854	11/27/07	Scr: Alpha: -6.54E-05 uCi/Sa Beta: 6.77E-04 uCi/Sa
2 J74AJ-1-AA J7J020303-1-SAMP 10/02/2007 09:12	AmtRec: 20ML,2X500ML,3XLP,2X4LP #Containers: 8	3882.70g,in	ITA6749 11/08/07		37.7		L4	1854		Scr: Alpha: 4.60E-04 uCi/Sa Beta: -5.40E-04 uCi/Sa
3 J74CF-1-AA J7J020306-1-SAMP 10/02/2007 11:24	AmtRec: 20ML,2X4LP #Containers: 3	3874.30g,in	ITA6750 11/08/07		35.3		L5	1855		Scr: Alpha: -9.64E-04 uCi/Sa Beta: 8.51E-04 uCi/Sa
4 J74CF-1-AC-X J7J020306-1-DUP 10/02/2007 11:24	AmtRec: 20ML,2X4LP #Containers: 3	3910.70g,in	ITA6751 11/08/07		35.9		L4	2038		Scr: Alpha: -9.64E-04 uCi/Sa Beta: 8.51E-04 uCi/Sa
5 J74H6-1-AA J7J020332-1-SAMP 10/02/2007 11:43	AmtRec: 20ML,2X4LP #Containers: 3	3895.20g,in	ITA6752 11/08/07		34.4		L5	2039		Scr: Alpha: 8.01E-04 uCi/Sa Beta: 6.78E-04 uCi/Sa
6 J8L8L-1-AA J7J100271-1-SAMP 10/09/2007 08:46	AmtRec: VIAL20,2X4LP #Containers: 3	3883.20g,in	ITA6753 11/08/07		34.9		L2	2040		Scr: Alpha: 5.32E-07 uCi/Sa Beta: -5.31E-07 uCi/Sa
7 J8L8W-1-AA J7J100271-2-SAMP 10/09/2007 08:46	AmtRec: VIAL20,2X4LP #Containers: 3	3898.10g,in	ITA6754 11/08/07		32.4		L2	2223		Scr: Alpha: 5.13E-07 uCi/Sa Beta: -1.40E-06 uCi/Sa

TAL RICHLAND

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11/23/2007 10:49:41 AM

Sample Preparation/Analysis

Balance Id:2113224201

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 11/15/2007

Sep1 DT/Tm Tech:

Batch: 7296620 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,ClarkR

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 J8WAD-1-AC J7J120328-1-SAMP 10/12/2007 07:30	AmtRec: 20ML,2X500ML,3X4LP #Containers: 6	3928.10g,in	ITA6755 11/08/07		32.7	100	L4	2227	11/27/07 DK Scr: Alpha: -1.70E-06 uCi/Sa	Beta: 2.09E-06 uCi/Sa
9 J8WA2-1-AC J7J120328-2-SAMP 10/12/2007 10:44	AmtRec: 20ML,2X500ML,3X4LP #Containers: 6	3912.40g,in	ITA6756 11/08/07		39.2		L5	2227	Scr: Alpha: 1.62E-06 uCi/Sa	Beta: -1.15E-06 uCi/Sa
10 J9M61-1-AA-B J7J230000-620-BLK 10/02/2007 11:24	AmtRec: #Containers: 1	4000.60g,in	ITA6757 11/08/07		35.2		L2	0015	Scr: Alpha:	Beta:
11 J9M61-1-AC-C J7J230000-620-LCS 10/02/2007 11:24	AmtRec: #Containers: 1	4000.80g,in	ISD0791 10/31/07		36.1		L4	0016	Scr: Alpha:	Beta:

Comments: Aliquots Reduced due to ISV RC 11/27/07

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

J725P1AA-SAMP Constituent List:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
J9M611AA-BLK:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
J9M611AC-LCS:
I-129 RDL:5 pCi/L LCL:70 UCL:130 RPD:20
J725P1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TAL RICHLAND
87

11/12/2007 6:58:46 AM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 11/16/2007

Sep1 DT/Tm Tech:

Batch: 7296615 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7296614 DHSS, 7296615 FPS5, 7296620 BNTB, 7296622 CLTL,

Prep Tech: ,Barcotl

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 J74AJ-1-AD J7J020303-1-SAMP 10/02/2007 09:12		AmtRec: 20ML,2X500ML,3XLP,2X4LP #Containers: 8	125.40g,in	125.40g		50	Scr:	Alpha: 4.60E-04 uCi/Sa	Beta: -5.40E-04 uCi/Sa	
2 J74GH-1-AA J7J020321-1-SAMP 10/02/2007 09:42		AmtRec: 20ML,500MLP #Containers: 2	125.89g,in	125.89g			Scr:	Alpha: -2.32E-05 uCi/Sa	Beta: 1.53E-05 uCi/Sa	
3 J74GH-1-AC-X J7J020321-1-DUP 10/02/2007 09:42		AmtRec: 20ML,500MLP #Containers: 2	125.30g,in	125.30g			Scr:	Alpha: -2.32E-05 uCi/Sa	Beta: 1.53E-05 uCi/Sa	
4 J77FG-1-AC J7J030382-1-SAMP 10/03/2007 10:40		AmtRec: 20ML,500ML,LP #Containers: 3	125.14g,in	125.14g			Scr:	Alpha: -2.25E-04 uCi/Sa	Beta: 3.87E-04 uCi/Sa	
5 J77FG-1-AD-S J7J030382-1-MS 10/03/2007 10:40		AmtRec: 20ML,500ML,LP #Containers: 3	125.36g,in	125.36g	TCSG1923 10/02/07,pd 01/10/06,r		Scr:	Alpha: -2.25E-04 uCi/Sa	Beta: 3.87E-04 uCi/Sa	
6 J8WAD-1-AD J7J120328-1-SAMP 10/12/2007 07:30		AmtRec: 20ML,2X500ML,3X4LP #Containers: 6	125.72g,in	125.72g			Scr:	Alpha: -1.70E-06 uCi/Sa	Beta: 2.09E-06 uCi/Sa	
7 J8WA2-1-AD J7J120328-2-SAMP 10/12/2007 10:44		AmtRec: 20ML,2X500ML,3X4LP #Containers: 6	125.16g,in	125.16g			Scr:	Alpha: 1.62E-06 uCi/Sa	Beta: -1.15E-06 uCi/Sa	

TAL RICHLAND

TAL RICHLAND

11/12/2007 6:58:52 AM

Sample Preparation/Analysis

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

Balance Id:1120373922
Pipet #:

AnalyDueDate: 11/16/2007

Sep1 DT/Tm Tech:

Batch: 7296615 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,Barcotl

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 J9M6Q-1-AA-B J7J230000-615-BLK 10/02/2007 09:42		AmtRec:	125.05g,in	125.05g #Containers: 1		60		Scr:	Alpha:	Beta:
9 J9M6Q-1-AC-C J7J230000-615-LCS 10/02/2007 09:42		AmtRec:	125.10g,in	125.10g #Containers: 1	TCSE2174 10/22/07,pd 01/10/06,r			Scr:	Alpha:	Beta:
10 J9M6Q-1-AD-BN J7J230000-615-IBLK 10/02/2007 09:42		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:

Comments:

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

J74AJ1AD-SAMP Constituent List:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
J77FG1AD-MS:

J9M6Q1AA-BLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
J9M6Q1AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
J9M6Q1AD-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:

J74AJ1AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J77FG1AD-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

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11/12/2007 6:58:54 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 11/16/2007

Batch: 7296615 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:

J9M6Q1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J9M6Q1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J9M6Q1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TAL RICHLAND

10/24/2007 1:25:06 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: 11/16/2007 WO5243

Batch: 7296621 WATER pCi/L PM, Quote: SA , 57671

SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 10-26 0700
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 J77FG-1-AA J7J030382-1-SAMP 10/03/2007 10:40	AmtRec: 20ML,500ML,LP	#Containers: 3				Scr:	Alpha: -2.25E-04 uCi/Sa	Beta: 3.87E-04 uCi/Sa
2 J77FG-1-AE-X J7J030382-1-DUP 10/03/2007 10:40	AmtRec: 20ML,500ML,LP	#Containers: 3				Scr:	Alpha: -2.25E-04 uCi/Sa	Beta: 3.87E-04 uCi/Sa
3 J9M62-1-AA-B J7J230000-621-BLK 10/03/2007 10:40	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
4 J9M62-1-AC-C J7J230000-621-LCS 10/03/2007 10:40	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
5 J9M62-1-AD-BX J7J230000-621-MBLK 10/03/2007 10:40	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
6 J9M62-1-AE-CM J7J230000-621-MLCS 10/03/2007 10:40	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
7 J9M62-1-AF-BN J7J230000-621-IBLK 10/03/2007 10:40	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

TAL RICHLAND

10/24/2007 1:25:06 PM

Sample Preparation/Analysis

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

AnalyDueDate: 11/16/2007

Batch: 7296621 pCi/L
SEQ Batch, Test: None

Balance Id: 12495
Pipet #:
Sep1 DT/Tm Tech: 10-26-07 am
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 J9M62-1-AG-BN								
J7J230000-621-IBLK								
10/03/2007 10:40	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments:

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

J77FG1AA-SAMP Constituent List:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
J9M621AA-BLK:

J9M621AC-LCS:

J9M621AD-MBLK:

J9M621AE-MLCS:

J9M621AF-IBLK:

J9M621AG-IBLK:

J77FG1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J9M621AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J9M621AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J9M621AD-MBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J9M621AE-MLCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J9M621AF-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TAL RICHLAND

10/24/2007 1:25:07 PM

Sample Preparation/Analysis

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

AnalyDueDate: 11/16/2007

Batch: 7296621 pCi/L
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 10-26-07 DM
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:

J9M621AG-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TAL RICHLAND

11/14/2007 9:44:27 AM

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:1120373922
Pipet #: _____

AnalyDueDate: 11/16/2007

Sep1 DT/Tm Tech:

Batch: 7296614 WATER ug/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,Barcotl

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 J74AJ-1-AE J7J020303-1-SAMP 10/02/2007 09:12		25.09g,in AmtRec: 20ML,2X500ML,3XLP,2X4LP #Containers: 8				Scr:	Alpha: 4.60E-04 uCi/Sa	Beta: -5.40E-04 uCi/Sa
2 J74AJ-1-AF-X J7J020303-1-DUP 10/02/2007 09:12		25.05g,in AmtRec: 20ML,2X500ML,3XLP,2X4LP #Containers: 8				Scr:	Alpha: 4.60E-04 uCi/Sa	Beta: -5.40E-04 uCi/Sa
3 J8WAD-1-AE J7J120328-1-SAMP 10/12/2007 07:30		25.13g,in AmtRec: 20ML,2X500ML,3X4LP #Containers: 6				Scr:	Alpha: -1.70E-06 uCi/Sa	Beta: 2.09E-06 uCi/Sa
4 J8WAD-1-AF-S J7J120328-1-MS 10/12/2007 07:30		25.08g,in AmtRec: 20ML,2X500ML,3X4LP #Containers: 6	UNSF4043 10/30/07,pd 02/01/86,r			Scr:	Alpha: -1.70E-06 uCi/Sa	Beta: 2.09E-06 uCi/Sa
5 J8WA2-1-AE J7J120328-2-SAMP 10/12/2007 10:44		25.06g,in AmtRec: 20ML,2X500ML,3X4LP #Containers: 6				Scr:	Alpha: 1.62E-06 uCi/Sa	Beta: -1.15E-06 uCi/Sa
6 J9M6N-1-AA-B J7J230000-614-BLK 10/02/2007 09:12		25.10g,in AmtRec: #Containers: 1				Scr:	Alpha:	Beta:
7 J9M6N-1-AC-C J7J230000-614-LCS 10/02/2007 09:12		25.11g,in AmtRec: #Containers: 1	UNSF4044 10/30/07,pd 02/01/86,r			Scr:	Alpha:	Beta:

TA 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 v4.8.29

TAL RICHLAND

11/14/2007 9:44:29 AM

Sample Preparation/Analysis

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

Balance Id:1120373922

Pipet #: _____

AnalyDueDate: 11/16/2007

Sep1 DT/Tm Tech:

Batch: 7296614 ug/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,Barcotl

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:
J9M6N-1-AD-C		25.08g,in	UNSC2019					
J7J230000-614-LCS			10/30/07,pd					
10/02/2007 09:12		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

J74AJ1AE-SAMP Constituent List:

Uranium	RDL:1.44E-01	ug/L	LCL:	UCL:	RPD:

J8WAD1AF-MS:

J9M6N1AA-BLK:

Uranium	RDL:1.44E-01	ug/L	LCL:	UCL:	RPD:

J9M6N1AC-LCS:

Uranium	RDL:0.144343	ug/L	LCL:70	UCL:130	RPD:20

J9M6N1AD-LCS:

Uranium	RDL:0.144343	ug/L	LCL:70	UCL:130	RPD:20

J74AJ1AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J8WAD1AF-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J9M6N1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J9M6N1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J9M6N1AD-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

11/26/2007 1:11:12 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/26/2006, 12/1/2007, Batch: '7296623', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7296623						
AC		CalcC	AntonsonL	11/17/2007 8:24:29		
SC			wagarr	IsBatched	10/24/2007 1:36:37 PM	ICOC_RADCALC v4.8.29
SC			AntonsonL	InPrep	11/17/2007 8:24:29 AM	RICH-RC-5014 Revision 7
SC			AntonsonL	Prep1C	11/17/2007 8:34:25 AM	RICH-RC-5014 REVISION 7
SC			BostedD	Prep2C	11/19/2007 3:05:36 PM	RICH-RC-5014 REVISION 7
SC			DAWKINSO	InCnt1	11/19/2007 5:11:58 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	11/19/2007 11:06:11 PM	RICH-RD-0003 REVISION 5
SC			BlackCL	InCnt1	11/21/2007 12:13:58 PM	RICH-RD-0003 REVISION 5
SC			BlackCL	CalcC	11/23/2007 12:07:50 PM	RICH-RD-0003 REVISION 5
AC			AntonsonL	11/17/2007 8:34:25		
AC			BostedD	11/19/2007 3:05:36		
AC			DAWKINSO	11/19/2007 5:11:58		
AC			DAWKINSO	11/19/2007 6:54:12		
AC			DAWKINSO	11/19/2007 11:06:11		
AC			BlackCL	11/21/2007 12:13:58		
AC			BlackCL	11/23/2007 12:07:50		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 8

ICOCFractions v4.8.30

TAL RICHLAND

11/20/2007 11:10:31 AM

ICOC Fraction Transfer/Status Report

ByDate: 11/20/2006, 11/25/2007, Batch: '7296624', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7296624						
AC		CalcC	AntonsonL	11/17/2007 8:34:34		
SC			wagarr	IsBatched	10/24/2007 1:36:37 PM	ICOC_RADCALC v4.8.29
SC			AntonsonL	Prep1C	11/17/2007 8:34:34 AM	RICH-RC-5014 REVISION 7
SC			BostedD	Prep2C	11/19/2007 3:05:46 PM	RICH-RC-5014 REVISION 7
SC			DAWKINSO	InCnt1	11/19/2007 5:12:39 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	11/19/2007 11:06:17 PM	RICH-RD-0003 REVISION 5
AC			BostedD	11/19/2007 3:05:46		
AC			DAWKINSO	11/19/2007 5:12:39		
AC			DAWKINSO	11/19/2007 11:06:17		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.30

TAL RICHLAND

11/16/2007 1:38:08 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/16/2006, 11/21/2007, Batch: '7296622', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
7296622							
AC			InCnt2	WoodT	10/31/2007 8:15:49		
SC				wagarr	IsBatched	10/24/2007 1:36:37 PM	ICOC_RADCALC v4.8.29
SC				WoodT	InPrep	10/31/2007 8:15:49 AM	RICH-RC-5016 Revision 7
SC				WoodT	Prep1C	10/31/2007 9:48:50 AM	RICH-RC-5016 REVISION 7
SC				ManisD	InSep1	11/1/2007 7:01:00 AM	RICH-RC-5006 REV 7
SC				ManisD	Sep1C	11/7/2007 5:08:43 PM	RICH-RC-5006 REV 7
SC				DAWKINSO	InCnt1	11/7/2007 5:25:18 PM	RICH-RD-0007 REVISION 6
SC				DAWKINSO	Cnt1C	11/7/2007 9:58:50 PM	RICH-RD-0007 REVISION 6
SC				ManisD	InSep2	11/13/2007 6:57:43 AM	RICH-RC-5071 REV 5
SC				ManisD	Sep2C	11/14/2007 4:03:39 PM	RICH-RC-5071 REV 5
SC				DAWKINSO	InCnt2	11/14/2007 4:39:06 PM	RICH-RD-0003 REVISION 5
AC				WoodT	10/31/2007 9:48:50		
AC				ManisD	11/1/2007 7:01:00		
AC				ManisD	11/7/2007 5:08:43 PM		
AC				DAWKINSO	11/7/2007 5:25:18 PM		
AC				DAWKINSO	11/7/2007 9:58:50 PM		
AC				ManisD	11/13/2007 6:57:43		
AC				ManisD	11/14/2007 4:03:39		
AC				DAWKINSO	11/14/2007 4:39:06		
7296622							
AC		rich-rd-	CalcC	BlackCL	11/16/2007 9:46:37		
SC				BlackCL	CalcC	11/16/2007 9:46:37 AM	REVISION 5

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 10

ICOCFractions v4.8.29

TAL RICHLAND

11/26/2007 2:46:22 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/26/2006, 12/1/2007, Batch: '7296618', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7296618						
AC		CalcC	BockJ	11/20/2007 5:09:23		
SC			wagarr	IsBatched	10/24/2007 1:36:36 PM	ICOC_RADCALC v4.8.29
SC			BockJ	InPrep	11/20/2007 5:09:23 PM	RICH-RC-5014 Revision 7
SC			BockJ	Prep1C	11/20/2007 5:19:38 PM	RICH-RC-5017 REVISION 6
SC			AshworthA	Sep2C	11/21/2007 3:32:08 PM	RICH-RC-5017 REVISION 6
SC			AshworthA	Prep2C	11/21/2007 3:32:26 PM	RICH-RC-5017 REVISION 6
SC			DAWKINSO	InCnt1	11/21/2007 4:21:48 PM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	CalcC	11/21/2007 10:04:51 PM	RICH-RD-0007 REVISION 6
AC			BockJ	11/20/2007 5:19:38		
AC			AshworthA	11/21/2007 3:32:08		
AC			AshworthA	11/21/2007 3:32:26		
AC			DAWKINSO	11/21/2007 4:21:48		
AC			DAWKINSO	11/21/2007 10:04:51		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.30

11/28/2007 1:33:51 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/28/2006, 12/3/2007, Batch: '7296620', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7296620						
AC		**CalcC**	**ClarkR**	11/23/2007 10:50:25		
SC			wagarr	IsBatched	10/24/2007 1:36:36 PM	ICOC_RADCALC v4.8.29
SC			ClarkR	InPrep2	11/23/2007 10:50:25 AM	RICHRC5025 REVISION 4
SC			BostedD	Prep2C	11/27/2007 4:27:09 PM	RICHRC5025 REVISION 4
SC			DAWKINSO	InCnt1	11/27/2007 5:24:03 PM	RICH-RD-0007 REVISION 6
SC			BlackCL	CalcC	11/28/2007 5:29:03 AM	RICH-RD-0007 REVISION 6
AC			**BostedD**	11/27/2007 4:27:09		
AC			**DAWKINSO**	11/27/2007 5:24:03		
AC			**BlackCL**	11/28/2007 5:29:03		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.30

11/23/2007 10:55:15 AM

ICOC Fraction Transfer/Status Report

ByDate: 11/23/2006, 11/28/2007, Batch: '7296615', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7296615						
AC		**CalcC**	**FABREM**	11/14/2007 6:43:43		
SC			wagarr	IsBatched	10/24/2007 1:36:36 PM	ICOC_RADCALC v4.8.29
SC			FABREM	Sep1C	11/14/2007 6:43:43 PM	RICH-RC-5065 REVISION 6
SC			DAWKINSO	InCnt1	11/14/2007 8:30:21 PM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	11/16/2007 7:32:07 AM	RICH-RD-0001 REVISION 4
AC			**DAWKINSO**	11/14/2007 8:30:21		
AC			**BlackCL**	11/16/2007 7:32:07		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 3

ICOCFractions v4.8.30

11/23/2007 10:54:16 AM

ICOC Fraction Transfer/Status Report

ByDate: 11/23/2006, 11/28/2007, Batch: '7296621', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7296621						
AC		**CalcC**	**McDowellD**	10/26/2007 12:27:35		
SC			wagarr	IsBatched	10/24/2007 1:36:36 PM	ICOC RADCALC v4.8.29
SC			McDowellD	InSep1	10/26/2007 12:27:35 PM	RICH-RC-5007 REVISION 6
SC			McDowellD	Sep1C	10/26/2007 3:49:33 PM	RICH-RC-5007 REVISION 6
SC			DAWKINSO	InCnt1	10/26/2007 4:29:39 PM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	10/29/2007 6:57:51 AM	RICH-RD-0001 REVISION 4
AC			**McDowellD**	10/26/2007 3:49:33		
AC			**DAWKINSO**	10/26/2007 4:29:39		
AC			**BlackCL**	10/29/2007 6:57:51		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.30

11/27/2007 11:39:31 AM

ICOC Fraction Transfer/Status Report

ByDate: 11/27/2006, 12/2/2007, Batch: '7296614', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7296614						
AC		Cnt1C	Barcotl	11/14/2007 9:46:33		
SC			wagarr	IsBatched	10/24/2007 1:36:36 PM	ICOC_RADCALC v4.8.29
SC			Barcotl	InPrep	11/14/2007 9:46:33 AM	RICH-RC-5015 REVISION 6
SC			Barcotl	Prep1C	11/14/2007 9:46:49 AM	RICH-RC-5015 REVISION 6
SC			BockJ	InPrep2	11/16/2007 8:16:57 AM	RICH-RC-5015 REVISION 6
SC			AshworthA	Prep2C	11/21/2007 4:27:35 PM	RICH-RC-5015 REVISION 6
SC			NelsonT	Cnt1C	11/26/2007 9:51:41 AM	RICH-RC-5058 REV 7
AC			Barcotl	11/14/2007 9:46:49		
AC			BockJ	11/16/2007 8:16:57		
AC			AshworthA	11/21/2007 4:27:35		
AC			NelsonT	11/26/2007 9:51:41		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.30