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 116 Pages

Report Nbr: 38072

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JUN 11 2008
EDMC

RECEIVED JANUARY 23, 2008

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05265	I08-008	B1R357	J7K080383-1	KAVDV1AA	9KAVDV10	7324670
		B1R351	J7K080383-2	KAVDW1AA	9KAVDW10	7324670
	W08-011	B1R651	J7K090108-1	KAVWW1A	9KAVWW10	7324670
		B1R659	J7K090108-2	KAVWX1AA	9KAVWX10	7324661
		B1R659	J7K090108-2	KAVWX1AD	9KAVWX10	7324668
		B1R659	J7K090108-2	KAVWX3AC	9KAVWX30	8014157
		B1R655	J7K090108-3	KAVW11AA	9KAVW110	7324661
		B1R655	J7K090108-3	KAVW11AD	9KAVW110	7324668
		B1R655	J7K090108-3	KAVW11AE	9KAVW110	7324670
		B1R655	J7K090108-3	KAVW13AC	9KAVW130	8014157
		B1R647	J7K090110-1	KAVW41AA	9KAVW410	7324670
		B1R665	J7K090110-2	KAVW61AA	9KAVW610	7324661
		B1R665	J7K090110-2	KAVW62AC	9KAVW620	7355417
		B1R665	J7K090110-2	KAVW64AC	9KAVW640	8014157
		B1R639	J7K090110-3	KAVW71AA	9KAVW710	7324661

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Comments:

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Report Nbr: 38072

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05265	W08-011	B1R639	J7K090110-3	KAVW71AD	9KAVW710	7324668
		B1R639	J7K090110-3	KAVW73AC	9KAVW730	8014157
		B1R675	J7K090110-4	KAVW81AA	9KAVW810	7324661
		B1R675	J7K090110-4	KAVW81AD	9KAVW810	7324668
		B1R675	J7K090110-4	KAVW83AC	9KAVW830	8014157
		B1R643	J7K090110-5	KAVW91AA	9KAVW910	7324661
		B1R643	J7K090110-5	KAVW91AD	9KAVW910	7324668
		B1R643	J7K090110-5	KAVW91AE	9KAVW910	7324670
		B1R643	J7K090110-5	KAVW93AC	9KAVW930	8014157
		B1R670	J7K090110-6	KAVXD1AA	9KAVXD10	7324661
		B1R670	J7K090110-6	KAVXD1AD	9KAVXD10	7324668
		B1R670	J7K090110-6	KAVXD1AE	9KAVXD10	7324670
		B1R670	J7K090110-6	KAVXD3AC	9KAVXD30	8014157
		B1R669	J7K090110-7	KAVXE1AA	9KAVXE10	7324661
		B1R669	J7K090110-7	KAVXE1AD	9KAVXE10	7324668
		B1R669	J7K090110-7	KAVXE1AE	9KAVXE10	7324670
		B1R669	J7K090110-7	KAVXE3AC	9KAVXE30	8014157
		B1R631	J7K090110-8	KAVXG1AA	9KAVXG10	7324661
		B1R631	J7K090110-8	KAVXG1AD	9KAVXG10	7324668
		B1R631	J7K090110-8	KAVXG1AE	9KAVXG10	7324670
		B1R631	J7K090110-8	KAVXG1AG	9KAVXG10	7324671
		B1R631	J7K090110-8	KAVXG2AF	9KAVXG20	8002374
		B1R631	J7K090110-8	KAVXG3AC	9KAVXG30	8014157
	G08-011	B1R142	J7K120212-1	KA3354AA	9KA33540	8014157
	I08-005	B1R179	J7K120214-1	KA34F1AA	9KA34F10	7324661
		B1R179	J7K120214-1	KA34F4AC	9KA34F40	8014157

Comments:

Report Nbr: 38072

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05265	I08-005	B1R177	J7K120214-2	KA34M1AA	9KA34M10	7324661
		B1R177	J7K120214-2	KA34M3AC	9KA34M30	8014157
	W08-011	B1R595	J7K130305-1	KA6171AA	9KA61710	7324661
		B1R595	J7K130305-1	KA6171AD	9KA61710	7324668
		B1R595	J7K130305-1	KA6173AC	9KA61730	8014157
		B1R591	J7K130305-2	KA62C1AA	9KA62C10	7324661
		B1R591	J7K130305-2	KA62C1AD	9KA62C10	7324668
		B1R591	J7K130305-2	KA62C3AC	9KA62C30	8014157
		B1R579	J7K130305-3	KA62F1AA	9KA62F10	7324661
		B1R579	J7K130305-3	KA62F1AD	9KA62F10	7324668
		B1R579	J7K130305-3	KA62F1AE	9KA62F10	7324646
		B1R579	J7K130305-3	KA62F3AC	9KA62F30	8014157
		B1R580	J7K130305-4	KA62K1AA	9KA62K10	7324661
		B1R580	J7K130305-4	KA62K1AD	9KA62K10	7324668
		B1R580	J7K130305-4	KA62K1AE	9KA62K10	7324646
		B1R580	J7K130305-4	KA62K3AC	9KA62K30	8014157

Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

January 18, 2008

Attention: Steve Trent

SAF Number	:	I08-008, W08-011, G08-011, I08-005
Date SDG Closed	:	November 13, 2007
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05265
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between November 8, 2007 and November 13, 2007 twenty water samples were received at TestAmerica 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#	TALR ID#	DATE OF RECEIPT	MATRIX
B1R357	KAVDV	11/08/07	WATER
B1R351	KAVDW	11/08/07	WATER
B1R651	KAVWW	11/08/07	WATER
B1R659	KAVWX	11/08/07	WATER
B1R655	KAVW1	11/08/07	WATER
B1R647	KAVW4	11/08/07	WATER
B1R665	KAVW6	11/08/07	WATER
B1R639	KAVW7	11/08/07	WATER
B1R675	KAVW8	11/08/07	WATER
B1R643	KAVW9	11/08/07	WATER
B1R670	KAVXD	11/08/07	WATER
B1R669	KAVXE	11/08/07	WATER
B1R631	KAVXG	11/08/07	WATER

B1R142	KA335	11/12/07	WATER
B1R179	KA34F	11/12/07	WATER
B1R177	KA34M	11/12/07	WATER
B1R595	KA617	11/13/07	WATER
B1R591	KA62C	11/13/07	WATER
B1R579	KA62F	11/13/07	WATER
B1R580	KA62K	11/13/07	WATER

II. Sample Receipt

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

III. Analytical Results/Methodology

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

The requested analyses were:

Gas Proportional Counting
Gross Alpha by method RICH-RC-5014
Gross Beta by method RICH-RC-5014
Strontium-90 by method RICH-RC-5006
Gamma Spectroscopy
Gamma Spec (LL) by method RICH-RC-5017
Iodine-129 (LL) by method RICH-RC-5025
Liquid Scintillation Counting
Technetium-99 by method RICH-RC-5078
Nickel-63 by method RICH-RC-5069

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:

Samples B1R179, B1R177, B1R595, B1R591, B1R579, B1R580, B1R655, B1R665, B1R639, B1R675, B1R643, B1R659, B1R670, B1R669, B1R631 and B1R595 DUP were analyzed with reduced aliquots based on weight screens. Sample B1R591 did not meet the CRDL. It was counted the maximum of 200 minutes. Sample B1R595 and B1R595 DUP did not meet the CRDL but the results exceeded the achieved MDA. Except as noted, the LCS, batch blank, samples and sample duplicate (B1R595) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:

The achieved MDAs for samples B1R142, B1R142 DUP, B1R595, B1R591, B1R579, B1R580, B1R643 and B1R631 are greater than the CRDL due to sample matrix effects; reduced volumes were analyzed based on an elevated screen results. The detected activities exceed the achieved MDAs. The LCS, batch blank, samples and sample duplicate (B1R142) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006

The LCS, batch blank, samples and sample duplicate (B1R631) results are within contractual requirements.

Gamma Spectroscopy

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

The LCS, batch blank, samples and sample duplicate (B1R639) results are within contractual requirements.

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

The LCS, batch blank, samples and sample duplicate (B1R357) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by method RICH-RC-5078:

The LCS had a low recovery of 70%. The matrix spike (B1R580) had a recovery of 90%. The data was accepted based on that result. Except as noted, the batch blank, samples, sample duplicate (B1R579), and sample matrix spike (B1R580) results are within contractual requirements.

Nickel-63 by method RICH-RC-5069:

The TSIE was out on the instrument blank. The Ni63 carrier had not been added. A new instrument blank was made that included the Ni63 carrier. All the samples in batch 7324672 were recounted and had acceptable results. The recount batch number is 8002374. Except as noted, the LCS, batch blank, sample and sample duplicate (B1R631) results are within contractual requirements.

Fluor Hanford
January 18, 2008

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:

Sandra Seger
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.

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 38072 File Name: h:\Reportdb\edd\FeadIV\Rad\W05265.Edd, h:\Reportdb\edd\FeadIV\Rad\38072.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:
9KA33540	B1R142		MW6-SBB-A1	G08-011	W05265					11/12/2007 09:36

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8014157	BETA	12587-47-2	1.49E+04	pCi/L	5.8E+01	1.9E+03		4.16E+00	100.0	9310_ALPHABETA	9.91E-02	L	01/15/2008 08:03	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KA34F10	B1R179		MW6-SBB-A1	I08-005	W05265					11/12/2007 10:53

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324661	ALPHA	12587-46-1	1.87E+00	pCi/L	1.5E+00	1.6E+00	U	1.96E+00	100.0	9310_ALPHABETA	1.724E-01	L	12/24/2007 18:35	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KA34F40	B1R179		MW6-SBB-A1	I08-005	W05265					11/12/2007 10:53

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8014157	BETA	12587-47-2	6.38E+00	pCi/L	1.7E+00	2.0E+00		2.86E+00	100.0	9310_ALPHABETA	2.003E-01	L	01/14/2008 19:33	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KA34M10	B1R177		MW6-SBB-A1	I08-005	W05265					11/12/2007 12:06

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324661	ALPHA	12587-46-1	1.21E+00	pCi/L	5.9E-01	6.5E-01		6.98E-01	100.0	9310_ALPHABETA	1.924E-01	L	12/25/2007 11:01	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:
9KA34M30	B1R177		MW6-SBB-A1	I08-005	W05265					11/12/2007 12:06

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8014157	BETA	12587-47-2	6.15E+01	pCi/L	3.8E+00	8.6E+00		2.88E+00	100.0	9310_ALPHABETA	2.001E-01	L	01/14/2008 19:33	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KA61710	B1R595		MW6-SBB-A1	W08-011	W05265					11/13/2007 09:31

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324661	ALPHA	12587-46-1	1.44E+02	pCi/L	1.2E+01	3.6E+01		3.94E+00	100.0	9310_ALPHABETA	4.46E-02	L	12/24/2007 16:13	I
7324668	BE-7	13966-02-4	6.53E+00	pCi/L	2.4E+01	2.4E+01	U	4.38E+01		GAMMALL_GS	2.00E+00	L	12/29/2007 14:49	I
7324668	CO-60	10198-40-0	5.74E+01	pCi/L	1.1E+01	1.1E+01		3.10E+00		GAMMALL_GS	2.00E+00	L	12/29/2007 14:49	I
7324668	CS-134	13967-70-9	7.04E-01	pCi/L	2.4E+00	2.4E+00	U	4.29E+00		GAMMALL_GS	2.00E+00	L	12/29/2007 14:49	I
7324668	CS-137	10045-97-3	7.77E-01	pCi/L	1.9E+00	1.9E+00	U	3.54E+00		GAMMALL_GS	2.00E+00	L	12/29/2007 14:49	I
7324668	EU-152	14683-23-9	-3.89E+00	pCi/L	4.1E+00	4.1E+00	U	6.52E+00		GAMMALL_GS	2.00E+00	L	12/29/2007 14:49	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.

7324668	EU-154	15585-10-1	-2.28E+00	pCi/L	5.2E+00	5.2E+00	U	8.92E+00		GAMMALL_GS	2.00E+00	L	12/29/2007	14:49	I
7324668	EU-155	14391-16-3	9.53E-01	pCi/L	2.9E+00	2.9E+00	U	5.24E+00		GAMMALL_GS	2.00E+00	L	12/29/2007	14:49	I
7324668	K-40	13966-00-2	6.43E-01	pCi/L	4.1E+01	4.1E+01	U	2.93E+01		GAMMALL_GS	2.00E+00	L	12/29/2007	14:49	I
7324668	RU-106	13967-48-1	-4.74E+00	pCi/L	1.8E+01	1.8E+01	U	3.13E+01		GAMMALL_GS	2.00E+00	L	12/29/2007	14:49	I
7324668	SB-125	14234-35-6	-8.16E-01	pCi/L	4.3E+00	4.3E+00	U	7.48E+00		GAMMALL_GS	2.00E+00	L	12/29/2007	14:49	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KA61730	B1R595		MW6-SBB-A1	W08-011	W05265					11/13/2007 09:31

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8014157	BETA	12587-47-2	3.48E+03	pCi/L	3.6E+01	4.5E+02		6.42E+00	100.0	9310_ALPHABETA	5.92E-02	L	01/15/2008 08:03	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KA62C10	B1R591		MW6-SBB-A1	W08-011	W05265					11/13/2007 12:13

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324661	ALPHA	12587-46-1	3.18E+00	pCi/L	2.6E+00	2.7E+00	U	4.34E+00	100.0	9310_ALPHABETA	3.17E-02	L	12/24/2007 16:13	I
7324668	BE-7	13966-02-4	-8.34E+00	pCi/L	2.0E+01	2.0E+01	U	3.53E+01		GAMMALL_GS	2.00E+00	L	12/31/2007 07:01	I
7324668	CO-60	10198-40-0	5.82E+00	pCi/L	2.6E+00	2.6E+00	U	5.56E+00		GAMMALL_GS	2.00E+00	L	12/31/2007 07:01	I
7324668	CS-134	13967-70-9	2.02E-01	pCi/L	1.7E+00	1.7E+00	U	3.08E+00		GAMMALL_GS	2.00E+00	L	12/31/2007 07:01	I
7324668	CS-137	10045-97-3	1.47E-01	pCi/L	1.6E+00	1.6E+00	U	2.91E+00		GAMMALL_GS	2.00E+00	L	12/31/2007 07:01	I
7324668	EU-152	14683-23-9	-1.98E+00	pCi/L	3.9E+00	3.9E+00	U	6.60E+00		GAMMALL_GS	2.00E+00	L	12/31/2007 07:01	I
7324668	EU-154	15585-10-1	5.43E-01	pCi/L	4.6E+00	4.6E+00	U	8.84E+00		GAMMALL_GS	2.00E+00	L	12/31/2007 07:01	I
7324668	EU-155	14391-16-3	1.41E+00	pCi/L	3.5E+00	3.5E+00	U	6.32E+00		GAMMALL_GS	2.00E+00	L	12/31/2007 07:01	I
7324668	K-40	13966-00-2	-2.88E+01	pCi/L	4.2E+01	4.2E+01	U	8.69E+01		GAMMALL_GS	2.00E+00	L	12/31/2007 07:01	I
7324668	RU-106	13967-48-1	-8.76E+00	pCi/L	1.5E+01	1.5E+01	U	2.42E+01		GAMMALL_GS	2.00E+00	L	12/31/2007 07:01	I
7324668	SB-125	14234-35-6	-7.83E-01	pCi/L	4.0E+00	4.0E+00	U	6.90E+00		GAMMALL_GS	2.00E+00	L	12/31/2007 07:01	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:
9KA62C30	B1R591		MW6-SBB-A1	W08-011	W05265					11/13/2007 12:13

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8014157	BETA	12587-47-2	3.81E+02	pCi/L	1.2E+01	5.0E+01		6.09E+00	100.0	9310_ALPHABETA	6.09E-02	L	01/15/2008 08:03	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KA62F10	B1R579		MW6-SBB-A1	W08-011	W05265					11/13/2007 10:54

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: 38072 File Name: h:\Reportdb\edd\FeadIV\Rad\W05265.Edd, h:\Reportdb\edd\FeadIV\Rad\38072.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324661	ALPHA	12587-46-1	9.00E+01	pCi/L	8.5E+00	2.3E+01		2.83E+00	100.0	9310_ALPHABETA	6.08E-02	L	12/24/2007 16:13	I
7324668	BE-7	13966-02-4	-1.68E+01	pCi/L	2.4E+01	2.4E+01	U	3.85E+01		GAMMALL_GS	1.9999E+00	L	12/31/2007 07:03	I
7324668	CO-60	10198-40-0	2.16E+01	pCi/L	5.4E+00	5.4E+00		3.38E+00		GAMMALL_GS	1.9999E+00	L	12/31/2007 07:03	I
7324668	CS-134	13967-70-9	2.09E+00	pCi/L	2.1E+00	2.1E+00	U	4.04E+00		GAMMALL_GS	1.9999E+00	L	12/31/2007 07:03	I
7324668	CS-137	10045-97-3	-5.73E-01	pCi/L	1.7E+00	1.7E+00	U	2.89E+00		GAMMALL_GS	1.9999E+00	L	12/31/2007 07:03	I
7324668	EU-152	14683-23-9	2.25E+00	pCi/L	4.6E+00	4.6E+00	U	8.29E+00		GAMMALL_GS	1.9999E+00	L	12/31/2007 07:03	I
7324668	EU-154	15585-10-1	-8.85E-01	pCi/L	4.2E+00	4.2E+00	U	7.78E+00		GAMMALL_GS	1.9999E+00	L	12/31/2007 07:03	I
7324668	EU-155	14391-16-3	-5.14E-01	pCi/L	3.6E+00	3.6E+00	U	6.07E+00		GAMMALL_GS	1.9999E+00	L	12/31/2007 07:03	I
7324668	K-40	13966-00-2	-1.65E+01	pCi/L	3.7E+01	3.7E+01	U	7.36E+01		GAMMALL_GS	1.9999E+00	L	12/31/2007 07:03	I
7324668	RU-106	13967-48-1	-1.99E+00	pCi/L	1.6E+01	1.6E+01	U	2.83E+01		GAMMALL_GS	1.9999E+00	L	12/31/2007 07:03	I
7324668	SB-125	14234-35-6	-3.34E+00	pCi/L	4.3E+00	4.3E+00	U	7.12E+00		GAMMALL_GS	1.9999E+00	L	12/31/2007 07:03	I
7324646	TC-99	14133-76-7	7.07E+03	pCi/L	4.6E+01	4.2E+02		1.02E+01	100.0	TC99_SEP_LSC	1.2503E-01	L	12/20/2007 09:02	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:
9KA62F30	B1R579		MW6-SBB-A1	W08-011	W05265					11/13/2007 10:54

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8014157	BETA	12587-47-2	1.97E+03	pCi/L	2.7E+01	2.5E+02		6.31E+00	100.0	9310_ALPHABETA	6.13E-02	L	01/15/2008 08:03	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KA62K10	B1R580		MW6-SBB-A1	W08-011	W05265					11/13/2007 10:54

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324661	ALPHA	12587-46-1	1.01E+02	pCi/L	8.8E+00	2.5E+01		2.28E+00	100.0	9310_ALPHABETA	5.68E-02	L	12/24/2007 16:13	I
7324668	BE-7	13966-02-4	8.36E+00	pCi/L	2.2E+01	2.2E+01	U	4.03E+01		GAMMALL_GS	2.0001E+00	L	12/31/2007 07:03	I
7324668	CO-60	10198-40-0	2.23E+01	pCi/L	5.5E+00	5.5E+00		3.33E+00		GAMMALL_GS	2.0001E+00	L	12/31/2007 07:03	I
7324668	CS-134	13967-70-9	2.93E-01	pCi/L	1.7E+00	1.7E+00	U	3.08E+00		GAMMALL_GS	2.0001E+00	L	12/31/2007 07:03	I
7324668	CS-137	10045-97-3	-7.80E-01	pCi/L	1.8E+00	1.8E+00	U	3.14E+00		GAMMALL_GS	2.0001E+00	L	12/31/2007 07:03	I
7324668	EU-152	14683-23-9	-4.28E-01	pCi/L	3.9E+00	3.9E+00	U	6.85E+00		GAMMALL_GS	2.0001E+00	L	12/31/2007 07:03	I
7324668	EU-154	15585-10-1	6.67E-01	pCi/L	4.8E+00	4.8E+00	U	9.28E+00		GAMMALL_GS	2.0001E+00	L	12/31/2007 07:03	I
7324668	EU-155	14391-16-3	2.16E+00	pCi/L	3.9E+00	3.9E+00	U	6.98E+00		GAMMALL_GS	2.0001E+00	L	12/31/2007 07:03	I
7324668	K-40	13966-00-2	-6.07E+00	pCi/L	3.9E+01	3.9E+01	U	7.94E+01		GAMMALL_GS	2.0001E+00	L	12/31/2007 07:03	I
7324668	RU-106	13967-48-1	1.00E+01	pCi/L	1.5E+01	1.5E+01	U	2.92E+01		GAMMALL_GS	2.0001E+00	L	12/31/2007 07:03	I
7324668	SB-125	14234-35-6	8.64E-01	pCi/L	4.1E+00	4.1E+00	U	7.48E+00		GAMMALL_GS	2.0001E+00	L	12/31/2007 07:03	I

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

7324646	TC-99	14133-76-7	7.02E+03	pCi/L	4.6E+01	4.2E+02		1.02E+01	100.0	TC99_SEP_LSC	1.2502E-01	L	12/20/2007 09:02	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:
9KA62K30	B1R580		MW6-SBB-A1	W08-011	W05265					11/13/2007 10:54

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8014157	BETA	12587-47-2	2.10E+03	pCi/L	2.9E+01	3.7E+02		6.74E+00	100.0	9310_ALPHABETA	5.84E-02	L	01/15/2008 08:03	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KAVDV10	B1R357		MW6-SBB-A1	I08-008	W05265					11/08/2007 10:22

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324670	I-129L	15046-84-1	3.30E-02	pCi/L	1.5E-01	1.5E-01	U	2.88E-01	99.5	I129LL_SEP_LEPS	3.9001E+00	L	12/27/2007 16:01	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:
9KAVDW10	B1R351		MW6-SBB-A1	I08-008	W05265					11/08/2007 09:27

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324670	I-129L	15046-84-1	5.45E-02	pCi/L	1.5E-01	1.5E-01	U	2.73E-01	97.0	I129LL_SEP_LEPS	3.892E+00	L	12/27/2007 16:02	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:
9KAVW110	B1R655		MW6-SBB-A1	W08-011	W05265					11/08/2007 11:07

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324661	ALPHA	12587-46-1	3.66E+00	pCi/L	1.6E+00	1.8E+00		1.66E+00	100.0	9310_ALPHABETA	1.428E-01	L	12/24/2007 13:22	I
7324668	BE-7	13966-02-4	1.25E+01	pCi/L	2.8E+01	2.8E+01	U	5.04E+01		GAMMALL_GS	1.9999E+00	L	12/29/2007 14:42	I
7324668	CO-60	10198-40-0	-3.20E+00	pCi/L	2.4E+00	2.4E+00	U	3.59E+00		GAMMALL_GS	1.9999E+00	L	12/29/2007 14:42	I
7324668	CS-134	13967-70-9	1.87E-01	pCi/L	2.2E+00	2.2E+00	U	3.92E+00		GAMMALL_GS	1.9999E+00	L	12/29/2007 14:42	I
7324668	CS-137	10045-97-3	9.99E-01	pCi/L	2.1E+00	2.1E+00	U	3.88E+00		GAMMALL_GS	1.9999E+00	L	12/29/2007 14:42	I
7324668	EU-152	14683-23-9	-2.29E-01	pCi/L	5.1E+00	5.1E+00	U	8.87E+00		GAMMALL_GS	1.9999E+00	L	12/29/2007 14:42	I
7324668	EU-154	15585-10-1	-2.00E+00	pCi/L	5.2E+00	5.2E+00	U	9.19E+00		GAMMALL_GS	1.9999E+00	L	12/29/2007 14:42	I
7324668	EU-155	14391-16-3	3.37E+00	pCi/L	4.1E+00	4.1E+00	U	7.25E+00		GAMMALL_GS	1.9999E+00	L	12/29/2007 14:42	I
7324668	K-40	13966-00-2	-2.69E+01	pCi/L	4.9E+01	4.9E+01	U	1.00E+02		GAMMALL_GS	1.9999E+00	L	12/29/2007 14:42	I
7324668	RU-106	13967-48-1	1.23E+01	pCi/L	2.0E+01	2.0E+01	U	3.68E+01		GAMMALL_GS	1.9999E+00	L	12/29/2007 14:42	I
7324668	SB-125	14234-35-6	-2.30E-01	pCi/L	5.5E+00	5.5E+00	U	9.55E+00		GAMMALL_GS	1.9999E+00	L	12/29/2007 14:42	I
7324670	I-129L	15046-84-1	1.91E-01	pCi/L	1.5E-01	1.5E-01	U	3.07E-01	101.9	I129LL_SEP_LEPS	3.9419E+00	L	12/27/2007 17:46	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:

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.

9KAVW130 B1R655 MW6-SBB-A1 W08-011 W05265 11/08/2007 11:07

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8014157	BETA	12587-47-2	1.27E+02	pCi/L	5.5E+00	1.7E+01		2.96E+00	100.0	9310_ALPHABETA	2.00E-01	L	01/14/2008 19:33	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KAVW410	B1R647		MW6-SBB-A1	W08-011	W05265					11/08/2007 10:21

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324670	I-129L	15046-84-1	7.93E-02	pCi/L	1.2E-01	1.2E-01	U	2.47E-01	99.2	I129LL_SEP_LEPS	3.9113E+00	L	12/27/2007 17:46	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:
9KAVW610	B1R665		MW6-SBB-A1	W08-011	W05265					11/08/2007 09:27

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324661	ALPHA	12587-46-1	7.37E-01	pCi/L	1.2E+00	1.2E+00	U	2.40E+00	100.0	9310_ALPHABETA	1.613E-01	L	12/24/2007 18:35	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KAVW620	B1R665		MW6-SBB-A1	W08-011	W05265					11/08/2007 09:27

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7355417	BETA	12587-47-2	3.28E+01	pCi/L	3.2E+00	5.7E+00		3.18E+00	100.0	9310_ALPHABETA	1.724E-01	L	12/27/2007 17:58	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KAVW640	B1R665		MW6-SBB-A1	W08-011	W05265					11/08/2007 09:27

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8014157	BETA	12587-47-2	3.35E+01	pCi/L	3.2E+00	5.6E+00		3.15E+00	100.0	9310_ALPHABETA	1.723E-01	L	01/14/2008 19:33	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KAVW710	B1R639		MW6-SBB-A1	W08-011	W05265					11/08/2007 12:42

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324661	ALPHA	12587-46-1	1.64E+00	pCi/L	1.4E+00	1.4E+00	U	2.04E+00	100.0	9310_ALPHABETA	1.784E-01	L	12/24/2007 18:35	I
7324668	BE-7	13966-02-4	1.39E+00	pCi/L	2.0E+01	2.0E+01	U	3.58E+01		GAMMALL_GS	1.9999E+00	L	12/29/2007 14:43	I
7324668	CO-60	10198-40-0	-7.12E-01	pCi/L	1.8E+00	1.8E+00	U	3.06E+00		GAMMALL_GS	1.9999E+00	L	12/29/2007 14:43	I
7324668	CS-134	13967-70-9	6.77E-01	pCi/L	1.7E+00	1.7E+00	U	3.29E+00		GAMMALL_GS	1.9999E+00	L	12/29/2007 14:43	I
7324668	CS-137	10045-97-3	-1.46E+00	pCi/L	1.6E+00	1.6E+00	U	2.59E+00		GAMMALL_GS	1.9999E+00	L	12/29/2007 14:43	I
7324668	EU-152	14683-23-9	3.60E+00	pCi/L	3.8E+00	3.8E+00	U	7.30E+00		GAMMALL_GS	1.9999E+00	L	12/29/2007 14:43	I
7324668	EU-154	15585-10-1	-5.10E-01	pCi/L	4.5E+00	4.5E+00	U	8.25E+00		GAMMALL_GS	1.9999E+00	L	12/29/2007 14:43	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.

7324668	EU-155	14391-16-3	5.32E-01	pCi/L	3.5E+00	3.5E+00	U	6.30E+00		GAMMALL_GS	1.9999E+00	L	12/29/2007	14:43	I
7324668	K-40	13966-00-2	-3.45E+01	pCi/L	4.1E+01	4.1E+01	U	8.55E+01		GAMMALL_GS	1.9999E+00	L	12/29/2007	14:43	I
7324668	RU-106	13967-48-1	-1.02E+01	pCi/L	1.5E+01	1.5E+01	U	2.37E+01		GAMMALL_GS	1.9999E+00	L	12/29/2007	14:43	I
7324668	SB-125	14234-35-6	-2.57E+00	pCi/L	4.1E+00	4.1E+00	U	6.77E+00		GAMMALL_GS	1.9999E+00	L	12/29/2007	14:43	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KAVW730	B1R639		MW6-SBB-A1	W08-011	W05265					11/08/2007 12:42

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8014157	BETA	12587-47-2	3.38E+01	pCi/L	2.9E+00	5.9E+00		2.76E+00	100.0	9310_ALPHABETA	2.001E-01	L	01/14/2008 19:33	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KAVW810	B1R675		MW6-SBB-A1	W08-011	W05265					11/08/2007 10:22

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324661	ALPHA	12587-46-1	2.00E+00	pCi/L	1.2E+00	1.3E+00		1.73E+00	100.0	9310_ALPHABETA	1.515E-01	L	12/24/2007 13:22	I
7324668	BE-7	13966-02-4	1.46E+01	pCi/L	2.6E+01	2.6E+01	U	4.66E+01		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:45	I
7324668	CO-60	10198-40-0	1.30E+00	pCi/L	1.7E+00	1.7E+00	U	3.47E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:45	I
7324668	CS-134	13967-70-9	-8.28E-01	pCi/L	1.8E+00	1.8E+00	U	3.03E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:45	I
7324668	CS-137	10045-97-3	-1.02E+00	pCi/L	1.8E+00	1.8E+00	U	3.05E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:45	I
7324668	EU-152	14683-23-9	3.07E-01	pCi/L	4.3E+00	4.3E+00	U	7.61E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:45	I
7324668	EU-154	15585-10-1	3.85E+00	pCi/L	4.9E+00	4.9E+00	U	9.90E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:45	I
7324668	EU-155	14391-16-3	2.32E+00	pCi/L	3.0E+00	3.0E+00	U	5.42E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:45	I
7324668	K-40	13966-00-2	-8.40E+01	pCi/L	3.9E+01	3.9E+01	U	7.45E+01		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:45	I
7324668	RU-106	13967-48-1	-6.63E+00	pCi/L	1.6E+01	1.6E+01	U	2.79E+01		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:45	I
7324668	SB-125	14234-35-6	2.66E-01	pCi/L	4.3E+00	4.3E+00	U	7.66E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:45	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:
9KAVW830	B1R675		MW6-SBB-A1	W08-011	W05265					11/08/2007 10:22

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8014157	BETA	12587-47-2	1.81E+01	pCi/L	2.7E+00	3.6E+00		3.57E+00	100.0	9310_ALPHABETA	1.667E-01	L	01/14/2008 19:33	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KAVW910	B1R643		MW6-SBB-A1	W08-011	W05265					11/08/2007 11:52

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324661	ALPHA	12587-46-1	1.71E+00	pCi/L	1.3E+00	1.3E+00	U	1.92E+00	100.0	9310_ALPHABETA	1.136E-01	L	12/24/2007 13:22	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.

7324668	BE-7	13966-02-4	6.43E+00	pCi/L	2.1E+01	2.1E+01	U	3.86E+01		GAMMALL_GS	2.0003E+00	L	12/29/2007	14:45	I
7324668	CO-60	10198-40-0	1.16E+00	pCi/L	2.2E+00	2.2E+00	U	4.23E+00		GAMMALL_GS	2.0003E+00	L	12/29/2007	14:45	I
7324668	CS-134	13967-70-9	-8.34E-01	pCi/L	1.9E+00	1.9E+00	U	3.27E+00		GAMMALL_GS	2.0003E+00	L	12/29/2007	14:45	I
7324668	CS-137	10045-97-3	3.31E-01	pCi/L	1.5E+00	1.5E+00	U	2.75E+00		GAMMALL_GS	2.0003E+00	L	12/29/2007	14:45	I
7324668	EU-152	14683-23-9	-2.17E+00	pCi/L	4.2E+00	4.2E+00	U	7.18E+00		GAMMALL_GS	2.0003E+00	L	12/29/2007	14:45	I
7324668	EU-154	15585-10-1	1.69E+00	pCi/L	4.5E+00	4.5E+00	U	9.00E+00		GAMMALL_GS	2.0003E+00	L	12/29/2007	14:45	I
7324668	EU-155	14391-16-3	3.47E+00	pCi/L	3.4E+00	3.4E+00	U	6.10E+00		GAMMALL_GS	2.0003E+00	L	12/29/2007	14:45	I
7324668	K-40	13966-00-2	4.16E+00	pCi/L	3.8E+01	3.8E+01	U	2.70E+01		GAMMALL_GS	2.0003E+00	L	12/29/2007	14:45	I
7324668	RU-106	13967-48-1	-5.83E+00	pCi/L	1.7E+01	1.7E+01	U	2.91E+01		GAMMALL_GS	2.0003E+00	L	12/29/2007	14:45	I
7324668	SB-125	14234-35-6	-3.23E+00	pCi/L	4.1E+00	4.1E+00	U	6.72E+00		GAMMALL_GS	2.0003E+00	L	12/29/2007	14:45	I
7324670	I-129L	15046-84-1	8.95E+00	pCi/L	1.1E+00	1.1E+00		3.96E-01	96.8	I129LL_SEP_LEPS	3.9058E+00	L	12/27/2007	19:29	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KAVW930	B1R643		MW6-SBB-A1	W08-011	W05265					11/08/2007 11:52

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8014157	BETA	12587-47-2	6.94E+02	pCi/L	1.6E+01	9.1E+01		4.64E+00	100.0	9310_ALPHABETA	1.264E-01	L	01/14/2008 19:33	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KAVWW10	B1R651		MW6-SBB-A1	W08-011	W05265					11/08/2007 09:35

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324670	I-129L	15046-84-1	1.51E-01	pCi/L	1.5E-01	1.5E-01	U	2.90E-01	97.3	I129LL_SEP_LEPS	3.8976E+00	L	12/27/2007 17:45	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:
9KAVWX10	B1R659		MW6-SBB-A1	W08-011	W05265					11/08/2007 12:33

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324661	ALPHA	12587-46-1	1.05E+00	pCi/L	9.7E-01	1.0E+00	U	1.65E+00	100.0	9310_ALPHABETA	1.514E-01	L	12/24/2007 13:22	I
7324668	BE-7	13966-02-4	-2.23E+00	pCi/L	1.4E+01	1.4E+01	U	2.46E+01		GAMMALL_GS	2.00E+00	L	12/29/2007 14:42	I
7324668	CO-60	10198-40-0	8.48E-02	pCi/L	1.2E+00	1.2E+00	U	2.32E+00		GAMMALL_GS	2.00E+00	L	12/29/2007 14:42	I
7324668	CS-134	13967-70-9	1.01E-01	pCi/L	1.2E+00	1.2E+00	U	2.13E+00		GAMMALL_GS	2.00E+00	L	12/29/2007 14:42	I
7324668	CS-137	10045-97-3	-4.95E-01	pCi/L	9.9E-01	9.9E-01	U	1.68E+00		GAMMALL_GS	2.00E+00	L	12/29/2007 14:42	I
7324668	EU-152	14683-23-9	-5.79E-01	pCi/L	2.5E+00	2.5E+00	U	4.30E+00		GAMMALL_GS	2.00E+00	L	12/29/2007 14:42	I
7324668	EU-154	15585-10-1	7.08E-02	pCi/L	2.7E+00	2.7E+00	U	5.23E+00		GAMMALL_GS	2.00E+00	L	12/29/2007 14:42	I
7324668	EU-155	14391-16-3	1.34E+00	pCi/L	2.2E+00	2.2E+00	U	4.14E+00		GAMMALL_GS	2.00E+00	L	12/29/2007 14:42	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.

7324668	K-40	13966-00-2	-1.97E+01	pCi/L	2.4E+01	2.4E+01	U	4.72E+01		GAMMALL_GS	2.00E+00	L	12/29/2007	14:42	I
7324668	RU-106	13967-48-1	9.75E+00	pCi/L	9.9E+00	9.9E+00	U	1.93E+01		GAMMALL_GS	2.00E+00	L	12/29/2007	14:42	I
7324668	SB-125	14234-35-6	-1.14E+00	pCi/L	2.4E+00	2.4E+00	U	4.15E+00		GAMMALL_GS	2.00E+00	L	12/29/2007	14:42	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KAVWX30	B1R659		MW6-SBB-A1	W08-011	W05265					11/08/2007 12:33

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8014157	BETA	12587-47-2	1.08E+02	pCi/L	5.1E+00	1.4E+01		2.88E+00	100.0	9310_ALPHABETA	2.00E-01	L	01/14/2008 19:33	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KAVXD10	B1R670		MW6-SBB-A1	W08-011	W05265					11/08/2007 13:34

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324661	ALPHA	12587-46-1	5.63E-01	pCi/L	1.1E+00	1.1E+00	U	2.53E+00	100.0	9310_ALPHABETA	1.612E-01	L	12/24/2007 18:35	I
7324668	BE-7	13966-02-4	7.50E+00	pCi/L	1.8E+01	1.8E+01	U	3.34E+01		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:46	I
7324668	CO-60	10198-40-0	8.55E-01	pCi/L	1.7E+00	1.7E+00	U	3.49E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:46	I
7324668	CS-134	13967-70-9	-1.45E+00	pCi/L	1.8E+00	1.8E+00	U	2.86E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:46	I
7324668	CS-137	10045-97-3	-2.34E-01	pCi/L	1.5E+00	1.5E+00	U	2.67E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:46	I
7324668	EU-152	14683-23-9	-2.24E+00	pCi/L	3.6E+00	3.6E+00	U	5.87E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:46	I
7324668	EU-154	15585-10-1	2.15E+00	pCi/L	3.8E+00	3.8E+00	U	7.88E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:46	I
7324668	EU-155	14391-16-3	-6.20E-01	pCi/L	2.7E+00	2.7E+00	U	4.59E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:46	I
7324668	K-40	13966-00-2	-6.38E+00	pCi/L	2.1E+01	2.1E+01	U	3.98E+01		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:46	I
7324668	RU-106	13967-48-1	3.32E+00	pCi/L	1.4E+01	1.4E+01	U	2.54E+01		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:46	I
7324668	SB-125	14234-35-6	-1.87E+00	pCi/L	3.3E+00	3.3E+00	U	5.65E+00		GAMMALL_GS	2.0001E+00	L	12/29/2007 14:46	I
7324670	I-129L	15046-84-1	1.52E-01	pCi/L	1.5E-01	1.5E-01	U	3.06E-01	97.0	I129LL_SEP_LEPS	3.8968E+00	L	12/27/2007 19:30	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KAVXD30	B1R670		MW6-SBB-A1	W08-011	W05265					11/08/2007 13:34

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8014157	BETA	12587-47-2	3.55E+02	pCi/L	9.1E+00	4.7E+01		2.97E+00	100.0	9310_ALPHABETA	1.923E-01	L	01/14/2008 19:33	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KAVXE10	B1R669		MW6-SBB-A1	W08-011	W05265					11/08/2007 13:34

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324661	ALPHA	12587-46-1	3.38E-01	pCi/L	8.6E-01	8.6E-01	U	2.07E+00	100.0	9310_ALPHABETA	1.611E-01	L	12/24/2007 18:35	I

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

7324668	BE-7	13966-02-4	-7.14E+00	pCi/L	2.1E+01	2.1E+01	U	3.53E+01		GAMMALL_GS	1.9999E+00	L	12/29/2007	14:47	I
7324668	CO-60	10198-40-0	1.82E+00	pCi/L	1.9E+00	1.9E+00	U	3.66E+00		GAMMALL_GS	1.9999E+00	L	12/29/2007	14:47	I
7324668	CS-134	13967-70-9	4.54E-01	pCi/L	1.7E+00	1.7E+00	U	3.15E+00		GAMMALL_GS	1.9999E+00	L	12/29/2007	14:47	I
7324668	CS-137	10045-97-3	6.40E-01	pCi/L	1.6E+00	1.6E+00	U	2.87E+00		GAMMALL_GS	1.9999E+00	L	12/29/2007	14:47	I
7324668	EU-152	14683-23-9	1.41E+00	pCi/L	4.3E+00	4.3E+00	U	7.37E+00		GAMMALL_GS	1.9999E+00	L	12/29/2007	14:47	I
7324668	EU-154	15585-10-1	-1.15E+00	pCi/L	5.0E+00	5.0E+00	U	8.78E+00		GAMMALL_GS	1.9999E+00	L	12/29/2007	14:47	I
7324668	EU-155	14391-16-3	-1.19E+00	pCi/L	4.4E+00	4.4E+00	U	7.37E+00		GAMMALL_GS	1.9999E+00	L	12/29/2007	14:47	I
7324668	K-40	13966-00-2	-3.06E+01	pCi/L	4.9E+01	4.9E+01	U	1.02E+02		GAMMALL_GS	1.9999E+00	L	12/29/2007	14:47	I
7324668	RU-106	13967-48-1	-2.14E+00	pCi/L	1.5E+01	1.5E+01	U	2.61E+01		GAMMALL_GS	1.9999E+00	L	12/29/2007	14:47	I
7324668	SB-125	14234-35-6	2.54E+00	pCi/L	4.2E+00	4.2E+00	U	7.46E+00		GAMMALL_GS	1.9999E+00	L	12/29/2007	14:47	I
7324670	I-129L	15046-84-1	2.17E-01	pCi/L	1.2E-01	1.2E-01	U	2.69E-01	97.6	I129LL_SEP_LEPS	3.9479E+00	L	12/27/2007	19:30	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KAVXE30	B1R669		MW6-SBB-A1	W08-011	W05265					11/08/2007 13:34

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8014157	BETA	12587-47-2	3.94E+02	pCi/L	9.4E+00	5.1E+01		2.74E+00	100.0	9310_ALPHABETA	2.00E-01	L	01/14/2008 19:33	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KAVXG10	B1R631		MW6-SBB-A1	W08-011	W05265					11/08/2007 10:59

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7324661	ALPHA	12587-46-1	1.75E+00	pCi/L	1.2E+00	1.3E+00		1.62E+00	100.0	9310_ALPHABETA	1.25E-01	L	12/24/2007 13:22	I
7324668	BE-7	13966-02-4	3.94E+00	pCi/L	1.7E+01	1.7E+01	U	3.15E+01		GAMMALL_GS	2.0002E+00	L	12/29/2007 14:48	I
7324668	CO-60	10198-40-0	1.71E+00	pCi/L	1.7E+00	1.7E+00	U	3.30E+00		GAMMALL_GS	2.0002E+00	L	12/29/2007 14:48	I
7324668	CS-134	13967-70-9	7.88E-01	pCi/L	1.4E+00	1.4E+00	U	2.67E+00		GAMMALL_GS	2.0002E+00	L	12/29/2007 14:48	I
7324668	CS-137	10045-97-3	1.32E+00	pCi/L	1.3E+00	1.3E+00	U	2.52E+00		GAMMALL_GS	2.0002E+00	L	12/29/2007 14:48	I
7324668	EU-152	14683-23-9	1.42E+00	pCi/L	3.5E+00	3.5E+00	U	6.17E+00		GAMMALL_GS	2.0002E+00	L	12/29/2007 14:48	I
7324668	EU-154	15585-10-1	5.45E-01	pCi/L	3.3E+00	3.3E+00	U	6.28E+00		GAMMALL_GS	2.0002E+00	L	12/29/2007 14:48	I
7324668	EU-155	14391-16-3	7.97E-01	pCi/L	3.0E+00	3.0E+00	U	5.31E+00		GAMMALL_GS	2.0002E+00	L	12/29/2007 14:48	I
7324668	K-40	13966-00-2	5.28E+00	pCi/L	2.5E+01	2.5E+01	U	2.45E+01		GAMMALL_GS	2.0002E+00	L	12/29/2007 14:48	I
7324668	RU-106	13967-48-1	4.97E+00	pCi/L	1.3E+01	1.3E+01	U	2.31E+01		GAMMALL_GS	2.0002E+00	L	12/29/2007 14:48	I
7324668	SB-125	14234-35-6	1.88E+00	pCi/L	3.2E+00	3.2E+00	U	5.97E+00		GAMMALL_GS	2.0002E+00	L	12/29/2007 14:48	I
7324670	I-129L	15046-84-1	1.56E+01	pCi/L	1.8E+00	1.8E+00		5.12E-01	95.4	I129LL_SEP_LEPS	3.89E+00	L	12/27/2007 21:16	I
7324671	SR-90	10098-97-2	-2.03E-01	pCi/L	1.9E-01	1.9E-01	U	4.85E-01	74.5	SRISO_SEP_PRE	1.0016E+00	L	12/23/2007 10:41	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.

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 38072 File Name: h:\Reportdb\edd\FeadIV\Rad\W05265.Edd, h:\Reportdb\edd\FeadIV\Rad\38072.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:
9KAVXG20	B1R631		MW6-SBB-A1	W08-011	W05265					11/08/2007 10:59

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8002374	Ni-63	13981-37-8	1.22E+02	pCi/L	3.6E+00	9.2E+00		3.90E+00	90.1	NI63_LSC	4.00E-01	L	01/03/2008 07:39	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KAVXG30	B1R631		MW6-SBB-A1	W08-011	W05265					11/08/2007 10:59

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8014157	BETA	12587-47-2	7.72E+02	pCi/L	1.6E+01	9.9E+01		4.26E+00	100.0	9310_ALPHABETA	1.266E-01	L	01/14/2008 19:33	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.

Thursday, January 17, 2008

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05265.Edd, h:\Reportdb\edd\FeadIV\Rad\38072.Edd

Lab Sample Id:	KCNMA1AB	**Sdg/Rept Nbr:**	W05265 38072	**Collection Date:**	11/13/2007 10:54
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	11/13/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7324646	TC-99	-1.48E-02	pCi/L	6.0E+00	U	1.02E+01	100.0		TC99_SEP_LS	1.2503E-01	12/20/2007				D
BLK	14133-76-7			4.2E+00						L	09:02				

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

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05265.Edd, h:\Reportdb\edd\FeadIV\Rad\38072.Edd

Lab Sample Id:	KCNP61AB	**Sdg/Rept Nbr:**	W05265	38072	**Collection Date:** 11/08/2007 12:42
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 11/08/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7324668	BE-7	1.53E+01	pCi/L	1.8E+01	U	3.38E+01			GAMMALL_GS	2.0005E+00	12/31/2007				D
BLK	13966-02-4			1.8E+01						L	07:04				
7324668	CO-60	5.06E-01	pCi/L	1.4E+00	U	2.66E+00			GAMMALL_GS	2.0005E+00	12/31/2007				D
BLK	10198-40-0			1.4E+00						L	07:04				
7324668	CS-134	6.69E-01	pCi/L	1.3E+00	U	2.48E+00			GAMMALL_GS	2.0005E+00	12/31/2007				D
BLK	13967-70-9			1.3E+00						L	07:04				
7324668	CS-137	-8.53E-01	pCi/L	1.2E+00	U	1.99E+00			GAMMALL_GS	2.0005E+00	12/31/2007				D
BLK	10045-97-3			1.2E+00						L	07:04				
7324668	EU-152	1.83E+00	pCi/L	3.4E+00	U	6.23E+00			GAMMALL_GS	2.0005E+00	12/31/2007				D
BLK	14683-23-9			3.4E+00						L	07:04				
7324668	EU-154	3.44E+00	pCi/L	3.6E+00	U	7.37E+00			GAMMALL_GS	2.0005E+00	12/31/2007				D
BLK	15585-10-1			3.6E+00						L	07:04				
7324668	EU-155	-6.15E-01	pCi/L	2.8E+00	U	4.81E+00			GAMMALL_GS	2.0005E+00	12/31/2007				D
BLK	14391-16-3			2.8E+00						L	07:04				
7324668	K-40	-2.04E+01	pCi/L	1.9E+01	U	3.52E+01			GAMMALL_GS	2.0005E+00	12/31/2007				D
BLK	13966-00-2			1.9E+01						L	07:04				
7324668	RU-106	1.11E+01	pCi/L	1.2E+01	U	2.35E+01			GAMMALL_GS	2.0005E+00	12/31/2007				D
BLK	13967-48-1			1.2E+01						L	07:04				
7324668	SB-125	-3.96E-01	pCi/L	3.3E+00	U	5.65E+00			GAMMALL_GS	2.0005E+00	12/31/2007				D
BLK	14234-35-6			3.3E+00						L	07:04				

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 QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05265.Edd, h:\Reportdb\edd\FeadIV\Rad\38072.Edd

Lab Sample Id:	KCNPG1AB	**Sdg/Rept Nbr:**	W05265 38072	**Collection Date:**	11/13/2007 09:31
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	11/13/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7324661	ALPHA	6.06E-02	pCi/L	1.8E-01	U	3.92E-01	100.0		9310_ALPHAB	2.004E-01	12/25/2007				D
BLK	12587-46-1			1.8E-01						L	11:01				

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 QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05265.Edd, h:\Reportdb\edd\FeadIV\Rad\38072.Edd

Lab Sample Id:	KCNPT3AB	**Sdg/Rept Nbr:**	W05265 38072	**Collection Date:**	11/12/2007 10:53
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	11/12/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8014157	BETA	4.89E-01	pCi/L	9.0E-01	U	1.78E+00	100.0		9310_ALPHAB	2.001E-01	01/15/2008				D
BLK	12587-47-2			9.0E-01						L	08:03				

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

Thursday, January 17, 2008

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05265.Edd, h:\Reportdb\edd\FeadIV\Rad\38072.Edd

Lab Sample Id:	KCNQ71AB	**Sdg/Rept Nbr:**	W05265 38072	**Collection Date:**	11/08/2007 10:59
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	11/08/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7324671	SR-90	-6.01E-02	pCi/L	2.3E-01	U	5.24E-01	73.2		SRISO_SEP_P	1.0003E+00	12/23/2007				D
BLK	10098-97-2			2.3E-01						L	10:41				

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 QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05265.Edd, h:\Reportdb\edd\FeadIV\Rad\38072.Edd

Lab Sample Id:	KCNQQ1AB	**Sdg/Rept Nbr:**	W05265	38072	**Collection Date:**	11/08/2007 10:22
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:**	11/08/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7324670	I-129L	-8.77E-02	pCi/L	1.6E-01	U	2.70E-01	93.2		I129LL_SEP_L	3.8591E+00	12/27/2007				D
BLK	15046-84-1			1.6E-01						L	21:17				

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 QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05265.Edd, h:\Reportdb\edd\FeadIV\Rad\38072.Edd

Lab Sample Id:	KCNRC2AB	**Sdg/Rept Nbr:**	W05265	38072	**Collection Date:** 11/08/2007 10:59
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 11/08/2007

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

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
8002374	NI-63	4.34E+00	pCi/L	2.6E+00		3.70E+00	92.0		NI63_LSC	4.00E-01	01/03/2008				D
BLK	13981-37-8			1.6E+00						L	11:04				

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 QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05265.Edd, h:\Reportdb\edd\FeadIV\Rad\38072.Edd

Lab Sample Id:	KEPFP1AB	**Sdg/Rept Nbr:**	W05265 38072	**Collection Date:**	11/08/2007 09:27
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	11/08/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7355417	BETA	9.13E-01	pCi/L	1.3E+00	U	2.62E+00	100.0		9310_ALPHAB	2.001E-01	12/27/2007				D
BLK	12587-47-2			1.2E+00						L	17:58				

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

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05265.Edd, h:\Reportdb\edd\FeadIV\Rad\38072.Edd

Lab Sample Id:	KCNMA1CS	**Sdg/Rept Nbr:**	W05265 38072	**Collection Date:**	11/13/2007 10:54
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	11/13/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7324646	TC-99	3.83E+02	pCi/L	2.8E+01		1.02E+01	100.0	5.45E+02	TC99_SEP_LS	1.2504E-01	12/20/2007			70	D
BS	14133-76-7			1.1E+01				70.4		L	09:02			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.

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05265.Edd, h:\Reportdb\edd\FeadIV\Rad\38072.Edd

Lab Sample Id:	KCNP61CS	**Sdg/Rept Nbr:**	W05265	38072	**Collection Date:** 11/08/2007 12:42
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 11/08/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7324668	CO-60	4.58E+01	pCi/L	7.5E+00		2.06E+00		3.79E+01	GAMMALL_GS	2.0002E+00	12/31/2007			70	D
BS	10198-40-0			7.5E+00				121.0		L	07:05			130	
7324668	CS-137	5.26E+01	pCi/L	7.7E+00		2.20E+00		5.00E+01	GAMMALL_GS	2.0002E+00	12/31/2007			70	D
BS	10045-97-3			7.7E+00				105.3		L	07:05			130	
7324668	EU-152	7.46E+01	pCi/L	1.3E+01		6.54E+00		7.65E+01	GAMMALL_GS	2.0002E+00	12/31/2007			70	D
BS	14683-23-9			1.3E+01				97.5		L	07:05			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.

Thursday, January 17, 2008

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05265.Edd, h:\Reportdb\edd\FeadIV\Rad\38072.Edd

Lab Sample Id:	KCNPG1CS	**Sdg/Rept Nbr:**	W05265 38072	**Collection Date:**	11/13/2007 09:31
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	**BS**	**Received Date:**	11/13/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7324661	ALPHA	1.78E+01	pCi/L	4.3E+00		3.63E-01	100.0	2.26E+01	9310_ALPHAB	2.004E-01	12/25/2007			70	D
BS	12587-46-1			1.4E+00				78.9		L	11:01			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.

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05265.Edd, h:\Reportdb\edd\FeadIV\Rad\38072.Edd

Lab Sample Id:	KCNPT3CS	**Sdg/Rept Nbr:**	W05265 38072	**Collection Date:**	11/12/2007 10:53
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	11/12/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8014157	BETA	2.35E+01	pCi/L	3.5E+00		1.74E+00	100.0	2.26E+01	9310_ALPHAB	2.00E-01	01/15/2008			70	D
BS	12587-47-2			1.7E+00				103.9		L	08:03			130	

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

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05265.Edd, h:\Reportdb\edd\FeadIV\Rad\38072.Edd

Lab Sample Id:	KCNQ71CS	**Sdg/Rept Nbr:**	W05265 38072	**Collection Date:**	11/08/2007 10:59
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	11/08/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Alid Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7324671	SR-90	1.47E+01	pCi/L	2.3E+00		5.21E-01	71.3	1.38E+01	SRISO_SEP_P	1.0002E+00	12/23/2007			70	D
BS	10098-97-2			8.8E-01				106.3		L	10:41			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.

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05265.Edd, h:\Reportdb\edd\FeadIV\Rad\38072.Edd

Lab Sample Id:	KCNQQ1CS	**Sdg/Rept Nbr:**	W05265 38072	**Collection Date:**	11/08/2007 10:22
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	11/08/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7324670	I-129L	9.75E+00	pCi/L	1.2E+00		3.64E-01	96.1	9.78E+00	I129LL_SEP_L	3.9031E+00	12/27/2007			70	D
BS	15046-84-1			1.2E+00				99.7		L	21:17			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.

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05265.Edd, h:\Reportdb\edd\FeadIV\Rad\38072.Edd

Lab Sample Id:	KCNRC2CS	**Sdg/Rept Nbr:**	W05265 38072	**Collection Date:**	11/08/2007 10:59
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	11/08/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8002374	NI-63	3.41E+02	pCi/L	2.2E+01		3.93E+00	88.7	3.80E+02	NI63_LSC	4.0002E-01	01/03/2008			70	D
BS	13981-37-8			5.6E+00				89.6		L	12:46			130	

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

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05265.Edd, h:\Reportdb\edd\FeadIV\Rad\38072.Edd

Lab Sample Id:	KEPFP1CS	Sdg/Rept Nbr:	W05265	38072	Collection Date: 11/08/2007 09:27
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BS		Received Date: 11/08/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7355417	BETA	2.08E+01	pCi/L	4.0E+00		2.29E+00	100.0	2.27E+01	9310_ALPHAB	1.999E-01	12/27/2007			70	D
BS	12587-47-2			2.2E+00				91.7		L	17:58			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.

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05265.Edd, h:\Reportdb\edd\FeadIV\Rad\38072.Edd

Lab Sample Id:	KA3351CR	**Sdg/Rept Nbr:**	W05265 38072	**Collection Date:**	11/12/2007 09:36
Client Id:	B1R142	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	11/12/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
G08-011	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
8014157	BETA	1.51E+04	pCi/L	2.0E+03		4.40E+00	100.0		9310_ALPHAB	9.90E-02	01/15/2008	1.2	0.1		D
DUP	12587-47-2	1.49E+04		5.8E+01						L	08:03	20.0	3		

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

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05265.Edd, h:\Reportdb\edd\FeadIV\Rad\38072.Edd

Lab Sample Id:	KA6171ER	**Sdg/Rept Nbr:**	W05265	38072	**Collection Date:** 11/13/2007 09:31
Client Id:	B1R595	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 11/13/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W08-011	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
7324661	ALPHA	1.44E+02	pCi/L	3.5E+01		3.88E+00	100.0		9310_ALPHAB	4.45E-02	12/24/2007	.3	0.		D
DUP	12587-46-1	1.44E+02		1.2E+01						L	16:13	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.

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05265.Edd, h:\Reportdb\edd\FeadIV\Rad\38072.Edd

Lab Sample Id:	KA62F1FR	**Sdg/Rept Nbr:**	W05265 38072	**Collection Date:**	11/13/2007 10:54
Client Id:	B1R579	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	11/13/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W08-011	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
7324646	TC-99	6.63E+03	pCi/L	3.9E+02		1.02E+01	100.0		TC99_SEP_LS	1.2503E-01	12/20/2007	6.5	1.6		D
DUP	14133-76-7	7.07E+03		4.4E+01						L	09:02	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.

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05265.Edd, h:\Reportdb\edd\FeadIV\Rad\38072.Edd

Lab Sample Id:	KAVDV1CR	**Sdg/Rept Nbr:**	W05265 38072	**Collection Date:**	11/08/2007 10:22
Client Id:	B1R357	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	11/08/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-008	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
7324670	I-129L	1.07E-01	pCi/L	1.3E-01	U	2.66E-01	100.5		I129LL_SEP_L	3.8842E+00	12/27/2007	106.0	0.8		D
DUP	15046-84-1	3.30E-02		1.3E-01						L	16:01	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.

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05265.Edd, h:\Reportdb\edd\FeadIV\Rad\38072.Edd

Lab Sample Id: KAVW71ER **Sdg/Rept Nbr:** W05265 38072 **Collection Date:** 11/08/2007 12:42
Client Id: B1R639 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 11/08/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W08-011	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
7324668	BE-7	-2.69E+01	pCi/L	2.3E+01	U	3.55E+01			GAMMALL_GS	1.8596E+00	12/29/2007	0.0	1.7		D
DUP	13966-02-4	1.39E+00		2.3E+01						L	14:44	20.0	3		
7324668	CO-60	4.68E-01	pCi/L	1.8E+00	U	3.48E+00			GAMMALL_GS	1.8596E+00	12/29/2007	0.0	0.9		D
DUP	10198-40-0	-7.12E-01		1.8E+00						L	14:44	20.0	3		
7324668	CS-134	6.39E-01	pCi/L	1.9E+00	U	3.64E+00			GAMMALL_GS	1.8596E+00	12/29/2007	5.8	0.		D
DUP	13967-70-9	6.77E-01		1.9E+00						L	14:44	20.0	3		
7324668	CS-137	-7.29E-01	pCi/L	1.6E+00	U	2.80E+00			GAMMALL_GS	1.8596E+00	12/29/2007	0.0	0.6		D
DUP	10045-97-3	-1.46E+00		1.6E+00						L	14:44	20.0	3		
7324668	EU-152	3.43E+00	pCi/L	4.7E+00	U	8.58E+00			GAMMALL_GS	1.8596E+00	12/29/2007	4.7	0.		D
DUP	14683-23-9	3.60E+00		4.7E+00						L	14:44	20.0	3		
7324668	EU-154	-6.68E-01	pCi/L	4.7E+00	U	8.66E+00			GAMMALL_GS	1.8596E+00	12/29/2007	0.0	0.		D
DUP	15585-10-1	-5.10E-01		4.7E+00						L	14:44	20.0	3		
7324668	EU-155	7.41E-01	pCi/L	3.4E+00	U	6.08E+00			GAMMALL_GS	1.8596E+00	12/29/2007	32.9	0.1		D
DUP	14391-16-3	5.32E-01		3.4E+00						L	14:44	20.0	3		
7324668	K-40	6.74E+00	pCi/L	4.4E+01	U	3.19E+01			GAMMALL_GS	1.8596E+00	12/29/2007	0.0	1.3		D
DUP	13966-00-2	-3.45E+01		4.4E+01						L	14:44	20.0	3		
7324668	RU-106	-5.20E+00	pCi/L	1.7E+01	U	2.90E+01			GAMMALL_GS	1.8596E+00	12/29/2007	0.0	0.4		D
DUP	13967-48-1	-1.02E+01		1.7E+01						L	14:44	20.0	3		
7324668	SB-125	-4.73E-01	pCi/L	4.2E+00	U	7.50E+00			GAMMALL_GS	1.8596E+00	12/29/2007	0.0	0.7		D
DUP	14234-35-6	-2.57E+00		4.2E+00						L	14:44	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.

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05265.Edd, h:\Reportdb\edd\FeadIV\Rad\38072.Edd

Lab Sample Id:	KAVXG1HR	**Sdg/Rept Nbr:**	W05265 38072	**Collection Date:**	11/08/2007 10:59
Client Id:	B1R631	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	11/08/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W08-011	MW6-SBB-A19981								BR	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7324671	SR-90	6.66E-02	pCi/L	2.3E-01	U	5.14E-01	66.5		SRISO_SEP_P	1.0016E+00	12/23/2007	0.0	1.6		D
DUP	10098-97-2	-2.03E-01		2.1E-01						L	10:41	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.

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05265.Edd, h:\Reportdb\edd\FeadIV\Rad\38072.Edd

Lab Sample Id:	KAVXG2JR	**Sdg/Rept Nbr:**	W05265 38072	**Collection Date:**	11/08/2007 10:59
Client Id:	B1R631	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	11/08/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W08-011	MW6-SBB-A19981								BS	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8002374	NI-63	1.13E+02	pCi/L	8.6E+00		3.73E+00	92.8		NI63_LSC	4.0001E-01	01/03/2008	7.7	1.5		D
DUP	13981-37-8	1.22E+02		3.4E+00						L	09:22	20.0	3		

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

Thursday, January 17, 2008

TAL Richland Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05265.Edd, h:\Reportdb\edd\FeadIV\Rad\38072.Edd

Lab Sample Id: KA62K1FW **Sdg/Rept Nbr:** W05265 38072 **Collection Date:** 11/13/2007 10:54

Client Id: B1R580 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** MS **Received Date:** 11/13/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W08-011	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
7324646	TC-99	3.30E+03	pCi/L	7.4E+02		1.02E+01	100.0	3.66E+03	TC99_SEP_LS	1.2503E-01	12/20/2007			60	D
MS	14133-76-7			5.5E+01				90.1		L	09:02			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.

Lot No., Due Date: J7K120214,J7K130305,J7K090108,J7K090110; 12/31/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7324661; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05265; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used Analysis Volume => KAVWX1AA 151.40<200.00 KAVW11AA 142.80<200.00 KAVW61AA 161.30<200.00 KAVW71AA 178.40<200.00 KAVW81AA 151.50<200.00 KAVW91AA 113.60<200.00 KAVXD1AA 161.20<200.00 KAVXE1AA 161.10<200.00 KAVXG1AA 125.00<200.00 KA34F1AA 172.40<200.00 KA6171AA 44.60<200.00 KA62C1AA 31.70<200.00 KA62F1AA 60.80<200.00 KA62K1AA 56.80<200.00 Q:VB		✓	
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. MDC/MDA > CRDL => KA6171AA ALPHA 3.9E+00>3.0E+00 KA6171AE ALPHA 3.9E+00>3.0E+00 KA62C1AA ALPHA 4.3E+00>3.0E+00 Q:C1		✓	
8.2 Comments:			

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

No Limit Specified!

8.22 Result < Mdc, Activity Not Detected, U Flag. Yes No ✓ N/A

Batch Positive Result =>
KAVW11AA ALPHA 3.7E+00 L:1.7E+00
KAVW81AA ALPHA 2.0E+00 L:1.7E+00
KAVXG1AA ALPHA 1.7E+00 L:1.6E+00
KA34M1AA ALPHA 1.2E+00 L:7.0E-01
KA6171AA ALPHA 1.4E+02 L:3.9E+00
KA62F1AA ALPHA 9.0E+01 L:2.8E+00
KA62K1AA ALPHA 1.0E+02 L:2.3E+00

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

OK; No Action Level Found => ALPHA

OK; No Callin Level Found => ALPHA

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

OK

8.25 Counting Spectrum are within FWHM Limits. Yes No N/A ✓

No FWHM found in Batch Data!

8.26 Instruments have Current Calibrations. Yes No N/A

8.27 Correct Count Library Used. Yes No N/A ✓

No Count Library found in Batch Data!

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

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

8.3 Comments:

NCM 10-11531

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

OK

First Level Review Lisa Anderson **Date** 12/12/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7324601

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 NCR

Second Level Review: Erika Ford Date: 12/08/7

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-11531**
NCM Initiated By: Lisa Antonson
Date Opened: 12/26/2007
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Environmental - Prep
Tests: Alpha by GPC-Am
Lot #'s (Sample #'s): J7K090108 (2,3), J7K090110 (2,3,4,5,6,7,8), J7K120214 (1,2), J7K130305 (1,2,3,4), J7K200000 (661),
QC Batches: 7324661,

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

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	12/26/2007	Sample KA62C didn't meet CRDL. It was counted for the maximum of 200 minutes. KA617 and it's dup didn't meet CRDL but had results that exceed the MDA achieved. Samples had reduced aliquots due to weight screens. Data accepted.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	12/26/2007	NA

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

1/15/2008 12:58:41 PM

Lot No., Due Date: J7K120212,J7K120214,J7K130305,J7K090108,J7K090110; 12/31/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8014157; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05265; 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:

The samples did not meet the RDL due to reduced aliquots
The activity detected in the samples was greater than the IDC
the data can be accepted.

First Level Review [signature] **Date** 1-15-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8014157

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: Jodie C. Date: 1/16/08

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

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

12/24/2007 9:11:39 AM

Lot No., Due Date: J7K090110; 12/31/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7324671; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05265; 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 Shawn E. Richland **Date** 12/24/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7324671

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: Nadie G Date: 12/24/07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

12/31/2007 1:01:43 PM

Lot No., Due Date: J7K130305,J7K090108,J7K090110; 12/31/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7324668; RGAMMA Gamma by GER

SDG, Matrix: W05265; 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 Kim Anderson **Date** 12/31/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 73246668

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: Jodie G. Date: 12/31/07

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

12/28/2007 3:24:01 PM

Lot No., Due Date: J7K080383,J7K090108,J7K090110; 12/31/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7324670; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05265; 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** 12/28/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7324670

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: Erika Ford Date: 12/28/17

Lot No., Due Date: J7K130305; 12/31/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7324646; RTC99 Tc-99 by LSC

SDG, Matrix: W05265; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used OK	✓		
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. OK	✓		
8.17 Tracer within Control Limits. No Tracers found in Batch!			✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!			✓
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc_IDL Not Calculated	✓		
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => TC-99 OK; No Callin Level Found => TC-99	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

8.26 Instruments have Current Calibrations. Yes No N/A

8.27 Correct Count Library Used. Yes No N/A ✓

No Count Library found in Batch Data!

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

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

8.3 Comments:

NCM 10-11556

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

OK

First Level Review Lisa Anderson Date 12/31/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7324646

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: [signature] Date: 12/31/07

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-11556**
NCM Initiated By: Lisa Antonson
Date Opened: 12/31/2007
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Environmental - Sep
Tests: Tc-99 by LSC
Lot #'s (Sample #'s): J7K130305 (3,4), J7K200000 (646),
QC Batches: 7324646,

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

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	12/31/2007	The LCS in this batch was recovered low at 70%. A recount brought it to 72%. The MS is acceptable at 90% and the data will be accepted based on that result.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	12/31/2007	Investigation will continue into the reason for low recoveries on Tc99 LCS's.

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

1/4/2008 10:58:42 AM

Lot No., Due Date: J7K090110; 12/31/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8002374; RNI63 Ni-63 by LSC

SDG, Matrix: W05265; 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 #10-11581

First Level Review [signature] **Date** 1-4-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8002374

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: Jodie G Date: 1/7/08

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

MEMORANDUM

Date: 1/7/08

To: Whom it May Concern

From: Sandra Seger

Subject: W06265 Ni63 Batches 7324672 and 8002374

The TSIE was out on the instrument blank. The Ni63 carrier had not been added.

A new instrument blank was made that included the Ni63 carrier. All the samples in batch 7324672 was recounted and had acceptable results. The recount batch number is 8002374.

Clouseau was not working at the time the memo was wrote.

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7K080383 W05265 DUE 122407 KAVDV

C.O.C. # 108-008-90

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Collector: F. H. Hall, Fluor Hanford Inc	Contact/Requester: Steve trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: 108-008	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2ZP1, NOVEMBER 2007	HNF-N-506-10 pg 24	Ice Chest No. SML-595 Temp.
Shipped To (Lab): TestAmerica 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 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1R357		W	11/8/07	1022	1x20-mL P	Activity Scan	None
B1R357		W	11/8/07	1022	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
F. H. Hall, Fluor Hanford Inc	NOV 08 2007 1416	J. Hevrick	NOV 08 2007 1416
J. Hevrick	11/8/07 1500	L. Smith S. Smith	NOV 08 2007 1500

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7K080383 W05265 DUE 122407 KAVDW

C.O.C. # 108-008-82

Collector: F. H. Hall, Fluor Hanford Inc	Contact/Requester: Steve trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: 108-008	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2ZPL NOVEMBER 2007	HNF-N-506-10 pg 24	Ice Chest No.: SML-595 Temp.
Shipped To (Lab): TestAmerica 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 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1R351		W	11/8/07	0927	1x20-mL P	Activity Scan	None
B1R351		W	11/8/07	0927	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
F. H. Hall, Fluor Hanford Inc			NOV 0 8 2007 1410	J. Herrick			NOV 0 8 2007 1410
J. Herrick			11/8/07 1500	S. Smith		S. Smith	NOV 0 8 2007 1500
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

DUE 122407

Date/Time Received: 11-08-05 1500

Client: PGW **SDG #:** W05265 NA[ ] **SAF #:** I08-008 NA [ ]

Work Order Number: J7K080383 **Chain of Custody #** I08-008-90, 82

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: S. Smith Date: 11-08-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7K090108 W05265 DUE 122407 KAVWW

C.O.C. # W08-011-372

Collector: D. J. Sparks	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-011	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA NOVEMBER 2007	HNF-N-504 11	Ice Chest No.: 201 Temp.
Shipped To (Lab): TestAmerica Incorporated Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1R651		W	11-8-07	0935	1x20-mL P	Activity Scan	None
B1R651		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
D. J. Sparks			1420 NOV 08 2007	Fluor Hanford R. T. SICKLE			1420 NOV 08 2007
Fluor Hanford R. T. SICKLE			NOV 08 2007 1500	S. Smith		S. Smith	NOV 08 2007 1500

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7K090108 W05265 DUE 122407 KAVWX

C.O.C. # W08-011-384

Collector: D. J. Sparks	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-011	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, NOVEMBER 2007	HNF-N-506 11	Ice Chest No.: 201 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1R659		W	11-8-07	1233	1x20-mL P	Activity Scan	None
B1R659		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1R659		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. J. Sparks			NOV 0 8 2007 1420	Fluor Hanford	R. T. SICKLE		NOV 0 8 2007 1420
Fluor Hanford	R. T. SICKLE		NOV 0 8 2007 1500			S. Smith	NOV 0 8 2007 1500
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

J7K090108 W05265 DUE 122407 KAVW1

C.O.C. # W08-011-378

Collector D. J. Sparks	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. W08-011	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA NOVEMBER 2007	HNF-N-506 11	Ice Chest No. 201 Temp.
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1R655		W	11-8-07	1107	1x20-mL P	Activity Scan	None
B1R655		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1R655		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1R655		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
D. J. Sparks			1420 NOV 0 8 2007	Fluor Hanford	R. T. SICKLE		1420 NOV 0 8 2007
Fluor Hanford	R. T. SICKLE		NOV 0 8 2007 1500				NOV 0 8 2007 1500

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

DUE 122407

Date/Time Received: 11.08.07 1500

Client: PGW **SDG #:** W05265 NA[ ] **SAF #:** W08-011 NA [ ]

Work Order Number: J7K090108 **Chain of Custody #** W08-011, 384, 378, 372

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: 3
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: S. Smith **Date:** 11.08.07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7K090110 W05265 DUE 122407 KAVW4

C.O.C. # W08-011-366

Collector: Josh Herrick	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-011	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA NOVEMBER 2007	HNF-N-506-5	Ice Chest No.: GW-1 Temp.
Shipped To (Lab): TestAmerica Incorporated Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS

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

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

All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1R647		W	11807	1021	1x20-mL P	Activity Scan	None
B1R647		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
Josh Herrick	J. Herrick	NOV 0 8 2007	1500		S. Smith	S. Smith	NOV 0 8 2007 1500
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7K090110 W05265 DUE 122407 KAVW6

C.O.C. # W08-011-396

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Collector F. H. Hall Fluor Hanford Inc	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. W08-011	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA NOVEMBER 2007	HNF-N-506-10 pg 24	Ice Chest No. SML-595 Temp.
Shipped To (Lab) TestAmerica Incorporated Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1R665		W	11/8/07	0927	1x20-mL P	Activity Scan	None
B1R665		W	11/8/07	0927	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F. H. Hall Fluor Hanford Inc			1410 NOV 08 2007	J. Herrick	J. Herrick		1410 NOV 08 2007
J. Herrick	J. Herrick		11/8/07 1500	S. Smith	S. Smith		1500 NOV 08 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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7K090110 W05265 DUE 122407 KAVW7

C.O.C. # W08-011-354

Collector: Josh Herrick	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-011	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA NOVEMBER 2007	1/4 NF-N-506.5	Ice Chest No.: GW-1 Temp.
Shipped To (Lab): TestAmerica Incorporated Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS

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

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

All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1R639		W	11/8/07	1242	1x20-mL P	Activity Scan	None
B1R639		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1R639		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Josh Herrick	NOV 08 2007 1500	S. Smith	NOV 08 2007 1500

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7K090110 W05265 DUE 122407 KAVW8

C.O.C. # **W08-011-408**

Collector: F. H. Hall, Fluor Hanford Inc	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-011	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, NOVEMBER 2007	HNF-N-506-10 pg 24	Ice Chest No.: 5MC-595 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1R675		W	11/8/07	1022	1x20-mL P	Activity Scan	None
B1R675		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1R675		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
F. H. Hall, Fluor Hanford Inc	NOV 0 8 2007 1416	J. Herrick	NOV 0 8 2007 1416
J. Herrick	11/8/07 1500	L. Smith	NOV 0 8 2007 1500

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

J7K090110 W05265 DUE 122407 KAVW9

C.O.C. # **W08-011-360**

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Collector: Josh Herrick	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-011	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA NOVEMBER 2007	HNF-N-506-5	Ice Chest No.: GW-1 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1R643		W	11-8-07	1152	1x20-mL P	Activity Scan	None
B1R643		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1R643		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1R643		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
Josh Herrick	J. Herrick		NOV 08 2007 1500		S. Smith	S. Smith	NOV 08 2007 1500
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7K090110 W05265 DUE 122407 KAVXD

C.O.C. # W08-011-403

Collector: F. H. Hall, Fluor Hanford Inc	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-011	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA NOVEMBER 2007	HNF-N-506-10 pg 25	Ice Chest No.: SML-538 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1R670		W	11/8/07	1334	1x20-mL P	Activity Scan	None
B1R670		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1R670		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1R670		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
F. H. Hall, Fluor Hanford Inc			NOV 08 2007 1416	J. Hernich	J. Hernich		NOV 08 2007 1416
J. Hernich	J. Hernich		11/8/07 1500	S. Smith	S. Smith		NOV 08 2007 1500
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

J7K090110 W05265 DUE 122407 KAVXE

C.O.C. # W08-011-402

Collector F. H. Hall Fluor Hanford Inc	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. W08-011	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA, NOVEMBER 2007	HNF-N-506-10 pg 25	Ice Chest No. SML-538 Temp.
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1R669		W	11/8/07	1334	1x20-mL P	Activity Scan	None
B1R669		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1R669		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1R669		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
F. H. Hall Fluor Hanford Inc			NOV 0 8 2007 1416	J. Herrick			NOV 0 8 2007 1416
J. Herrick			11/8/07 1500	S. Smith			NOV 0 8 2007 1500

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7K090110 W05265 DUE 122407 KAVXG

C.O.C. # W08-011-342

Page 1 of 1

Collector: Josh Herrick	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-011	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA NOVEMBER 2007	HNF-N-506-5	Ice Chest No.: GW-1 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1R631		W	11/8/07	1059	1x20-mL P	Activity Scan	None
B1R631		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1R631		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1R631		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1R631		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1R631		W			1x1000-mL G/P	NI63_LSC: Nickel-63 (1)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Josh Herrick	J. Herrick		NOV 08 2007 1500		S. Smith	S. Smith	NOV 08 2007 1500
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

DUE 122407

Date/Time Received: 11-08-07 15:00

Client: PGW **SDG #:** W05265 NA[ ] **SAF #:** W08-011 NA [ ]

Work Order Number: J7K090110 **Chain of Custody #** W08-011-366, 360, 342, 354, 396, 403, 402, 408

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: 8
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:** 11-08-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023 Rev 6 9/07

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7K120212 W05265 DUE 122707 KA335

C.O.C. # G08-011-17

Page 1 of 1

Collector: F. H. Hall, Fluor Hanford Inc	Contact/Requester: Steve Trent	Telephone No.: 509 373 5869 MSIN FAX
SAF No.: G08-011	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 1NR2-RB NOVEMBER 2007	HNF-N-506-10	Ice Chest No.: SMC 538 Temp.
Shipped To (Lab): TestAmerica 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 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1R142		W	11/12/07	0936	1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
B1R142		W	↓	↓	1x20-mL P	Activity Scan	None

11/12/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F. H. Hall, Fluor Hanford Inc			NOV 12 2007 1315		LJ LANE	TAL-R	11-12-07 1315
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

estAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

DUE 122707

Date/Time Received: 1/12/07 1315

Client: PGW SDG #: W05265 NA[ ] SAF #: G08-011 NA [ ]

Work Order Number: J7K120212 Chain of Custody # G08-011-17

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: 1/12/07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7K120214 W05265 DUE 122707 KA34F

C.O.C. # I08-005-32

Page 1 of 1

Collector ~~F.H. Hall~~ Fluor Hanford Inc	Contact/Requester Steve trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. I08-005	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 100HR3IAM(1/2), NOVEMBER 2007	HNF-N-506-10	Ice Chest No. SINL 538 Temp.
Shipped To (Lab) TestAmerica 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 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1R179		W	11/12/07	1053	1x20-mL P	Activity Scan	None
B1R179		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F. H. Hall Fluor Hanford Inc			1315 NOV 12 2007		LN LANE	TAL-R	1315 111207
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7K120214 W05265 DUE 122707 KA34M

C.O.C. # 108-005-26

Page 1 of 1

Collector F. H. Hall, Fluor Hanford Inc	Contact/Requester Steve trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. 108-005	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 100HR3IAM(1/2) NOVEMBER 2007	HNF-N-506-10	Ice Chest No. Temp.
Shipped To (Lab) TestAmerica 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 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1R177		W	11/12/07	1206	1x20-mL P	Activity Scan	None
B1R177		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F. H. Hall, Fluor Hanford Inc			1315 NOV 12 2007		LLANE	TALR	1315 111207
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

estAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

DUE 122707

Date/Time Received: 11/207 1315

Client: PGW SDG #: W05265 NA[ ] SAF #: I08-005 NA [ ]

Work Order Number: ~~JK~~ JTK12021 ~~2~~ 4 Chain of Custody # I08-005-26432

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: 11/12/07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTK130305 W05265 Due 12.28.07

C.O.C. # W08-011-36

Page 1 of 1

Collector: R. A. Shepard	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-011	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA NOVEMBER 2007	HNF-N-506-5	Ice Chest No.: SAWS-370 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1R595		W	11-13-07	0931	1x20-mL P	Activity Scan	None
B1R595		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1R595		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
						KA617	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. A. Shepard			NOV 13 2007 1330		LLANE	TALK	NOV 13 2007 1330
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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7K130305 W05265 Due 12-28-07

C.O.C. # W08-011-30

Collector R. A. Shepard	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. W08-011	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA, NOVEMBER 2007	HNF-N-506-5	Ice Chest No. SAWS-370 Temp.
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1R591		W	11-13-07	1213	1x20-mL P	Activity Scan	None
B1R591		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1R591		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
						KA62C	

Relinquished By	Received By
Print: R. A. Shepard Sign: [signature] Date/Time: NOV 13 2007 1350	Print: LJLANE Sign: TALR Date/Time: NOV 13 2007 1330
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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7K130305 W05265 Due 12-28-07

C.O.C. # W08-011-18

Page 1 of 1

Collector: R. A. Shepard	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-011	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA NOVEMBER 2007	HNF-N-506-5	Ice Chest No.: SAWS-370 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS

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

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

All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1R579		W	11-13-07	1054	1x20-mL P	Activity Scan	None
B1R579		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1R579		W			3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
B1R579		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
						KA62F	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. A. Shepard			NOV 13 2007 1330		LJLANE	TALK	NOV 13 2007 1330
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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7K130305 W05265 Due 12.28.07

C.O.C. # W08-011-19

Page 1 of 1

Coll: R.A. Shepard	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-011	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA NOVEMBER 2007	HNF-N-506-5	Ice Chest No.: SHWS-370 Temp.
Shipped To (Lab): TestAmerica Incorporated Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 08 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all GW samples submitted into one SDG, daily closure.
FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1R580		W	11-13-07	1054	1x20-mL P	Activity Scan	None
B1R580		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1R580		W			3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
B1R580		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
						KA62K	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. A. Shepard			NOV 13 2007 1330		LWLANE	TAL-R	NOV 13 2007 1330
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

estAmerica
HE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 111307 1330

Client: PGW SDG #: W05265 NA[ ] SAF #: W08-011 NA [ ]

Work Order Number: JTK130305 Chain of Custody # W08-011-36,-30,-18,-19

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: 4
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: 111307

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

12/17/2007 4:53:31 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: 235

AnalyDueDate: 12/31/2007 WO 52165

Sep1 DT/Tm Tech:

Batch: 7324661 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD /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 KAVWX-1-AA J7K090108-2-SAMP 11/08/2007 12:33		151.40g,in AmtRec: VIAL20,LP,4LP #Containers: 3		1.5	46.3	100	10A	1412	12/24/07 RC	Scr: Alpha: 7.82E-07 uCi/Sa Beta: -5.29E-07 uCi/Sa
2 KAVW1-1-AA J7K090108-3-SAMP 11/08/2007 11:07		142.80g,in AmtRec: VIAL20,LP,3X4LP #Containers: 5			44.9		10B			Scr: Alpha: -4.41E-03 uCi/Sa Beta: 3.24E-03 uCi/Sa
3 KAVW6-1-AA J7K090110-2-SAMP 11/08/2007 09:27		161.30g,in AmtRec: VIAL20,LP #Containers: 2			46.5	50	10A	1901	12/24/07 DD	Scr: Alpha: -1.78E-04 uCi/Sa Beta: 1.42E-04 uCi/Sa
4 KAVW7-1-AA J7K090110-3-SAMP 11/08/2007 12:42		178.40g,in AmtRec: VIAL20,LP,4LP #Containers: 3			44.0		10B			Scr: Alpha: -5.04E-08 uCi/Sa Beta: 3.85E-07 uCi/Sa
5 KAVW8-1-AA J7K090110-4-SAMP 11/08/2007 10:22		151.50g,in AmtRec: VIAL20,LP,4LP #Containers: 3			43.3	100	10C	1412	12/24/07 RC	Scr: Alpha: 3.85E-07 uCi/Sa Beta: 1.03E-06 uCi/Sa
6 KAVW9-1-AA J7K090110-5-SAMP 11/08/2007 11:52		113.60g,in AmtRec: VIAL20,LP,3X4LP #Containers: 5			43.1		10D			Scr: Alpha: -3.22E-04 uCi/Sa Beta: 4.41E-04 uCi/Sa
7 KAVXD-1-AA J7K090110-6-SAMP 11/08/2007 13:34		161.20g,in AmtRec: VIAL20,LP,3X4LP #Containers: 5			44.7	50	10C	1901	12/24/07 DD	Scr: Alpha: -1.38E-03 uCi/Sa Beta: 2.68E-03 uCi/Sa

12/17/2007 4:53:33 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 12/31/2007

Sep1 DT/Tm Tech:

Batch: 7324661 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

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 KAVXE-1-AA J7K090110-7-SAMP 11/08/2007 13:34		161.10g,in AmtRec: VIAL20,LP,3X4LP #Containers: 5		1.5	41.8	50	10 D	1901	12/24/07 ND Scr: Alpha: 1.05E-03 uCi/Sa	Beta: 1.70E-03 uCi/Sa
9 KAVXG-1-AA J7K090110-8-SAMP 11/08/2007 10:59		125.00g,in AmtRec: VIAL20,5XLP,3X4LP #Containers: 9			53.9	100	10F	1412	12/24/07 KC Scr: Alpha: 1.13E-03 uCi/Sa	Beta: -5.25E-04 uCi/Sa
10 KA34F-1-AA J7K120214-1-SAMP 11/12/2007 10:53		172.40g,in AmtRec: VIAL20,LP #Containers: 2			59.4	50	10F	1901	12/24/07 ND Scr: Alpha:	Beta:
11 KA34M-1-AA J7K120214-2-SAMP 11/12/2007 12:06		192.40g,in AmtRec: VIAL20,LP #Containers: 2			48.4	200	10B	1241	12/25/07 ND Scr: Alpha:	Beta:
12 KA617-1-AA J7K130305-1-SAMP 11/13/2007 09:31		44.60g,in AmtRec: 20ML,LP,4LP #Containers: 3			51.3	200	10A	1754	12/24/07 ND Scr: Alpha: 3.45E-06 uCi/Sa	Beta: -3.71E-07 uCi/Sa
13 KA617-1-AE-X J7K130305-1-DUP 11/13/2007 09:31		44.50g,in AmtRec: 20ML,LP,4LP #Containers: 3			52.7		10B		Scr: Alpha: 3.45E-06 uCi/Sa	Beta: -3.71E-07 uCi/Sa
14 KA62C-1-AA J7K130305-2-SAMP 11/13/2007 12:13		31.70g,in AmtRec: 20ML,LP,4LP #Containers: 3			26.6		10C		Scr: Alpha: -1.22E-08 uCi/Sa	Beta: 8.19E-07 uCi/Sa

12/17/2007 4:53:33 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 12/31/2007

Sep1 DT/Tm Tech:

Batch: 7324661 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 KA62F-1-AA J7K130305-3-SAMP 11/13/2007 10:54		60.80g,in AmtRec: 20ML,4XLP,4LP	#Containers: 6	1.5	59.6	200	10D	1754	12/24/07 DD Scr: Alpha: 2.43E-03 uCi/Sa	Beta: 1.65E-03 uCi/Sa
16 KA62K-1-AA J7K130305-4-SAMP 11/13/2007 10:54		56.80g,in AmtRec: 20ML,4XLP,4LP	#Containers: 6		52.5		10F		Scr: Alpha: 1.58E-03 uCi/Sa	Beta: 7.91E-04 uCi/Sa
17 KCNPG-1-AA-B J7K200000-661-BLK 11/13/2007 09:31		200.40g,in AmtRec:	#Containers: 1		0.4		10C	1241	12/25/07 DD Scr: Alpha:	Beta:
18 KCNPG-1-AC-C J7K200000-661-LCS 11/13/2007 09:31		200.40g,in AmtRec:	ASD4364 12/11/07,pd 06/01/01,r #Containers: 1		0.8		10D		Scr: Alpha:	Beta:

Comments: PtL2.0. Aliquots reduced due to weight screens. DW 12/17/07

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

KAVWX1AA-SAMP Constituent List:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:

KCNPG1AA-BLK:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:

KCNPG1AC-LCS:

Am-241	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

KAVWX1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

12/17/2007 4:53:34 PM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 12/31/2007

Sep1 DT/Tm Tech:

Batch: 7324661 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD

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:

KCNPG1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KCNPG1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

12/26/2007 12:00:15 PM

ICOC Fraction Transfer/Status Report

ByDate: 12/26/2006, 12/31/2007, Batch: '7324661', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7324661						
AC		CalcC	HarrisD	12/17/2007 4:41:21		
SC			wagarr	IsBatched	11/20/2007 4:11:51 PM	ICOC_RADCALC v4.8.29
SC			HarrisD	InPrep	12/17/2007 4:41:21 PM	RICH-RC-5014 Revision 7
SC			HarrisD	Prep1C	12/17/2007 4:53:34 PM	RICH-RC-5014 REVISION 7
SC			BockJ	InPrep2	12/20/2007 9:12:53 AM	RICH-RC-5014 REVISION 7
SC			AshworthA	Prep2C	12/24/2007 12:16:17 PM	RICH-RC-5014 REVISION 7
SC			ClarkR	InCnt1	12/24/2007 12:21:28 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	12/25/2007 1:26:35 PM	RICH-RD-0003 REVISION 5
AC			HarrisD	12/17/2007 4:53:34		
AC			BockJ	12/20/2007 9:12:53		Revision 7
AC			AshworthA	12/24/2007 12:16:17		
AC			ClarkR	12/24/2007 12:21:28		
AC			DAWKINSO	12/25/2007 1:26:35		

AC: Accepting Entry; SC: Status Change

1/14/2008 10:11:28 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

PRIORITY

Balance Id:1120482733
Pipet #: 245

AnalyDueDate: 12/31/2007

Sep1 DT/Tm Tech:

Batch: 8014157 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD Bock J.

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 KAVWX-3-AC J7K090108-2-SAMP 11/08/2007 12:33		200.00g,in AmtRec: VIAL20,LP,4LP #Containers: 3		1.5	104.6	100	28A	2023	1/14/08 DR	
								Scr: Alpha: 7.82E-07 uCi/Sa	Beta: -5.29E-07 uCi/Sa	
2 KAVW1-3-AC J7K090108-3-SAMP 11/08/2007 11:07		200.00g,in AmtRec: VIAL20,LP,3X4LP #Containers: 5			123.6		32A	2023		
								Scr: Alpha: -4.41E-03 uCi/Sa	Beta: 3.24E-03 uCi/Sa	
3 KAVW6-4-AC J7K090110-2-SAMP 11/08/2007 09:27		172.30g,in AmtRec: VIAL20,LP #Containers: 2			94.5		32C			
								Scr: Alpha: -1.78E-04 uCi/Sa	Beta: 1.42E-04 uCi/Sa	
4 KAVW7-3-AC J7K090110-3-SAMP 11/08/2007 12:42		200.10g,in AmtRec: VIAL20,LP,4LP #Containers: 3			93.1		32D			
								Scr: Alpha: -5.04E-08 uCi/Sa	Beta: 3.85E-07 uCi/Sa	
5 KAVW8-3-AC J7K090110-4-SAMP 11/08/2007 10:22		166.70g,in AmtRec: VIAL20,LP,4LP #Containers: 3			92.7		26A	2023		
								Scr: Alpha: 3.86E-07 uCi/Sa	Beta: 1.03E-06 uCi/Sa	
6 KAVW9-3-AC J7K090110-5-SAMP 11/08/2007 11:52		126.40g,in AmtRec: VIAL20,LP,3X4LP #Containers: 5			97.1		26B			
								Scr: Alpha: -3.22E-04 uCi/Sa	Beta: 4.41E-04 uCi/Sa	
7 KAVXD-3-AC J7K090110-6-SAMP 11/08/2007 13:34		192.30g,in AmtRec: VIAL20,LP,3X4LP #Containers: 5			99.5		26C			
								Scr: Alpha: -1.38E-03 uCi/Sa	Beta: 2.68E-03 uCi/Sa	

TAL Richland
Richland Wa.

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

Page 1

ISV - Insufficient Volume for Analysis

WO Cnt: 7

Prep_SamplePrep v4.8.32

1/14/2008 10:11:29 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 12/31/2007

Sep1 DT/Tm Tech:

Batch: 8014157 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

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 KAVXE-3-AC J7K090110-7-SAMP 11/08/2007 13:34		200.00g,in AmtRec: VIAL20,LP,3X4LP #Containers: 5		1.5	104.6	100	26D	2023	1/14/08 RD Scr: Alpha: 1.05E-03 uCi/Sa Beta: 1.70E-03 uCi/Sa	
9 KAVXG-3-AC J7K090110-8-SAMP 11/08/2007 10:59		126.60g,in AmtRec: VIAL20,5XLP,3X4LP #Containers: 9			109.6		27A		Scr: Alpha: 1.13E-03 uCi/Sa Beta: -5.25E-04 uCi/Sa	
10 KA335-1-AC-X J7K120212-1-DUP 11/12/2007 09:36		99.00g,in AmtRec: VIAL20,LP #Containers: 2			141.2	200	26A	0937	1/15/08 S Scr: Alpha: 2.30E-03 uCi/Sa 7.8E-02L Beta: 1.45E-03 uCi/Sa 6.2E-02L	
11 KA335-4-AA J7K120212-1-SAMP 11/12/2007 09:36		99.10g,in AmtRec: VIAL20,LP #Containers: 2			146.0		26B		Scr: Alpha: 2.30E-03 uCi/Sa 7.8E-02L Beta: 1.45E-03 uCi/Sa 6.2E-02L	
12 KA34F-4-AC J7K120214-1-SAMP 11/12/2007 10:53		200.30g,in AmtRec: VIAL20,LP #Containers: 2			112.8	100	27B	2023	1/14/08 RD Scr: Alpha: Beta:	
13 KA34M-3-AC J7K120214-2-SAMP 11/12/2007 12:06		200.10g,in AmtRec: VIAL20,LP #Containers: 2			117.6		27D		Scr: Alpha: Beta:	
14 KA617-3-AC J7K130305-1-SAMP 11/13/2007 09:31		59.20g,in AmtRec: 20ML,LP,4LP #Containers: 3			104.1	200	26C	0937	1/15/08 S Scr: Alpha: 3.45E-06 uCi/Sa Beta: -3.71E-07 uCi/Sa	

1/14/2008 10:11:30 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 12/31/2007

Sep1 DT/Tm Tech:

Batch: 8014157 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 KA62C-3-AC J7K130305-2-SAMP 11/13/2007 12:13		60.90g,in AmtRec: 20ML,LP,4LP #Containers: 3		1.5	94.1	200	260 Scr:	0937 Alpha: -1.22E-08 uCi/Sa	1/15/08 Beta: 8.19E-07 uCi/Sa	
16 KA62F-3-AC J7K130305-3-SAMP 11/13/2007 10:54		61.30g,in AmtRec: 20ML,4XLP,4LP #Containers: 6			104.7		31A Scr:	Alpha: 2.43E-03 uCi/Sa	Beta: 1.65E-03 uCi/Sa	
17 KA62K-3-AC J7K130305-4-SAMP 11/13/2007 10:54		58.40g,in AmtRec: 20ML,4XLP,4LP #Containers: 6			98.9		31B Scr:	Alpha: 1.58E-03 uCi/Sa	Beta: 7.91E-04 uCi/Sa	
18 KCNPT-3-AA-B J7K200000-663-BLK 11/12/2007 10:53		200.10g,in AmtRec: #Containers: 1			0.2		31C Scr:	Alpha:	Beta:	
19 KCNPT-3-AC-C J7K200000-663-LCS 11/12/2007 10:53		200.00g,in AmtRec: #Containers: 1	BESB3198 11/27/07,pd 08/08/06		0.2		31D Scr:	Alpha:	Beta:	

Comments: KAVW7-SAMP "Comments: insuff. volume for duplicate. DLH 12/27/07"

PH<2.0. Aliquots reduced due to weight screens. DLH 1/14/08

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

KAVWX3AC-SAMP Constituent List:

1/15/2008 12:16:06 PM

ICOC Fraction Transfer/Status Report

ByDate: 1/15/2007, 1/20/2008, Batch: '8014157', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8014157						
AC		**Rev1C**	**HarrisD**	1/14/2008 9:04:20		
SC			harrisd	IsBatched	1/14/2008 8:59:35 AM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	1/14/2008 9:04:20 AM	RICH-RC-5014 Revision 7
SC			HarrisD	Prep1C	1/14/2008 10:10:38 AM	RICH-RC-5014 REVISION 7
SC			BockJ	InPrep2	1/14/2008 12:51:44 PM	RICH-RC-5014 REVISION 7
SC			BockJ	Prep2C	1/14/2008 5:09:26 PM	RICH-RC-5014 REVISION 7
SC			DAWKINSO	InCnt1	1/14/2008 5:34:42 PM	RICH-RD-0003 REVISION 5
SC			BlackCL	CalcC	1/15/2008 10:10:57 AM	RICH-RD-0003 REVISION 5
SC			nortonj	Rev1C	1/15/2008 12:15:57 PM	RICH-RC-0002 REV 8
AC			**HarrisD**	1/14/2008 10:10:38		
AC			**BockJ**	1/14/2008 12:51:44		
AC			**BockJ**	1/14/2008 5:09:26 PM		
AC			**DAWKINSO**	1/14/2008 5:34:42 PM		Revision 5
AC			**DAWKINSO**	1/14/2008 5:35:02 PM		
AC			**BlackCL**	1/15/2008 10:10:57		
AC			**nortonj**	1/15/2008 12:15:57		

AC: Accepting Entry; SC: Status Change

12/21/2007 4:49:05 PM

Sample Preparation/Analysis

Balance Id:1120373922,1120373922,1120

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 12/31/2007

Sep1 DT/Tm Tech: 12/14/2007 14:29,ManisD

Batch: 7324671 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech: 12/21/2007 10:14,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 KAVXG-1-AG J7K090110-8-SAMP		1001.63g,in	SRTB15686 12/07/07,pd 07/03/07 r		1.0	22.8	100	4A 4A	1048 1130	12/22/07 12/23/07	
						12/14/2007 14:29,s1, 12/21/2007					
11/08/2007 10:59		AmtRec: VIAL20,5XLP,3X4LP		#Containers: 9				Scr:	Alpha: 1.13E-03 uCi/Sa	Beta: -5.25E-04 uCi/Sa	
2 KAVXG-1-AH-X J7K090110-8-DUP		1001.56g,in	SRTB15687 12/07/07,pd 07/03/07 r		1.0	22.6	100	4B 4B	1048 1130	12/22/07 12/23/07	
						12/14/2007 14:29,s1, 12/21/2007					
11/08/2007 10:59		AmtRec: VIAL20,5XLP,3X4LP		#Containers: 9				Scr:	Alpha: 1.13E-03 uCi/Sa	Beta: -5.25E-04 uCi/Sa	
3 KCNQ7-1-AA-B J7K200000-671-BLK		1000.25g,in	SRTB15689 12/07/07,pd 07/03/07 r		1.0	22.6	100	4C 4C	1048 1130	12/22/07 12/23/07	
						12/14/2007 14:29,s1, 12/21/2007					
11/08/2007 10:59		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:	
4 KCNQ7-1-AC-C J7K200000-671-LCS		1000.21g,in	SRSG1409 11/12/07,pd 05/22/07 r		1.0	21.7	100	4D 4D	1048 1130	12/22/07 12/23/07	
						12/14/2007 14:29,s1, 12/21/2007					
11/08/2007 10:59		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:	

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: 12/31/2007

Sep1 DT/Tm Tech: 12/14/2007 14:29,ManisD

Batch: 7324671 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech: 12/21/2007 10:14,ManisD

Prep Tech: ,ManisD

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

Comments:

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

KAVXG1AG-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

KCNQ71AA-BLK:

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

KCNQ71AC-LCS:

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

KAVXG1AG-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KCNQ71AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KCNQ71AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

12/24/2007 9:11:16 AM

ICOC Fraction Transfer/Status Report

ByDate: 12/24/2006, 12/29/2007, Batch: '7324671', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7324671						
AC		CalcC	WoodT	12/10/2007 9:04:29		
SC			wagarr	IsBatched	11/20/2007 4:11:51 PM	ICOC_RADCALC v4.8.29
SC			WoodT	InPrep	12/10/2007 9:04:29 AM	RICH-RC-5016 Revision 7
SC			WoodT	Prep1C	12/10/2007 9:29:31 AM	RICH-RC-5016 REVISION 7
SC			ManisD	InSep1	12/10/2007 9:33:10 AM	RICH-RC-5006 REV 7
SC			ManisD	Sep1C	12/14/2007 3:28:31 PM	RICH-RC-5006 REV 7
SC			DAWKINSO	InCnt1	12/14/2007 6:55:06 PM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	Cnt1C	12/14/2007 8:40:08 PM	RICH-RD-0007 REVISION 6
SC			ManisD	Sep2C	12/21/2007 4:50:39 PM	RICH-RC-5071 REV 5
SC			DAWKINSO	InCnt2	12/21/2007 5:25:24 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	12/23/2007 2:22:05 PM	RICH-RD-0003 REVISION 5
AC			WoodT	12/10/2007 9:29:31		
AC			ManisD	12/10/2007 9:33:10		
AC			ManisD	12/14/2007 3:28:31		
AC			DAWKINSO	12/14/2007 6:55:06		
AC			DAWKINSO	12/14/2007 8:40:08		
AC			ManisD	12/21/2007 4:50:39		
AC			DAWKINSO	12/21/2007 5:25:24		
AC			DAWKINSO	12/23/2007 2:22:05		

AC: Accepting Entry; SC: Status Change

12/27/2007 11:21:19 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 12/31/2007 W05265

Sep1 DT/Tm Tech:

Batch: 7324668 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7324661 AZS7, 7324663 BCS8, 7324668 AWTA, 7324670 BNTB, 7361199 BCS8,

Prep Tech: ,HarrisD | Bark D.

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 KAVWX-1-AD J7K090108-2-SAMP 11/08/2007 12:33		2000.00g,in AmtRec: VIAL20,LP,4LP #Containers: 3			100mL	200	G11	1802	12/29/07	Scr: Alpha: 7.82E-07 uCi/Sa Beta: -5.29E-07 uCi/Sa
2 KAVW1-1-AD J7K090108-3-SAMP 11/08/2007 11:07		1999.90g,in AmtRec: VIAL20,LP,3X4LP #Containers: 5					G14	1802		Scr: Alpha: -4.41E-03 uCi/Sa Beta: 3.24E-03 uCi/Sa
3 KAVW7-1-AD J7K090110-3-SAMP 11/08/2007 12:42		1999.90g,in AmtRec: VIAL20,LP,4LP #Containers: 3					G4	1803		Scr: Alpha: -5.04E-08 uCi/Sa Beta: 3.85E-07 uCi/Sa
4 KAVW7-1-AE-X J7K090110-3-DUP 11/08/2007 12:42		1859.60g,in AmtRec: VIAL20,LP,4LP #Containers: 3					G7	1804		Scr: Alpha: -5.04E-08 uCi/Sa Beta: 3.85E-07 uCi/Sa
5 KAVW8-1-AD J7K090110-4-SAMP 11/08/2007 10:22		2000.10g,in AmtRec: VIAL20,LP,4LP #Containers: 3					G15	1805		Scr: Alpha: 3.85E-07 uCi/Sa Beta: 1.03E-06 uCi/Sa
6 KAVW9-1-AD J7K090110-5-SAMP 11/08/2007 11:52		2000.30g,in AmtRec: VIAL20,LP,3X4LP #Containers: 5					G5	1805		Scr: Alpha: -3.22E-04 uCi/Sa Beta: 4.41E-04 uCi/Sa
7 KAVXD-1-AD J7K090110-6-SAMP 11/08/2007 13:34		2000.10g,in AmtRec: VIAL20,LP,3X4LP #Containers: 5					G8	1806		Scr: Alpha: -1.38E-03 uCi/Sa Beta: 2.68E-03 uCi/Sa

12/27/2007 11:21:21 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 12/31/2007

Sep1 DT/Tm Tech:

Batch: 7324668 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

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 KAVXE-1-AD J7K090110-7-SAMP 11/08/2007 13:34		1999.90g,in AmtRec: VIAL20,LP,3X4LP #Containers: 5			100.mL	200	G13	1807	12/24/07 PD	
							Scr:	Alpha: 1.05E-03 uCi/Sa	Beta: 1.70E-03 uCi/Sa	
9 KAVXG-1-AD J7K090110-8-SAMP 11/08/2007 10:59		2000.20g,in AmtRec: VIAL20,5XLP,3X4LP #Containers: 9					G10	1808		
							Scr:	Alpha: 1.13E-03 uCi/Sa	Beta: -5.25E-04 uCi/Sa	
10 KA617-1-AD J7K130305-1-SAMP 11/13/2007 09:31		2000.00g,in AmtRec: 20ML,LP,4LP #Containers: 3					G6	1809		
							Scr:	Alpha: 3.45E-06 uCi/Sa	Beta: -3.71E-07 uCi/Sa	
11 KA62C-1-AD J7K130305-2-SAMP 11/13/2007 12:13		2000.00g,in AmtRec: 20ML,LP,4LP #Containers: 3					G4	1021	12/31/07 RC	
							Scr:	Alpha: -1.22E-08 uCi/Sa	Beta: 8.19E-07 uCi/Sa	
12 KA62F-1-AD J7K130305-3-SAMP 11/13/2007 10:54		1999.90g,in AmtRec: 20ML,4XLP,4LP #Containers: 6					G5	1023		
							Scr:	Alpha: 2.43E-03 uCi/Sa	Beta: 1.65E-03 uCi/Sa	
13 KA62K-1-AD J7K130305-4-SAMP 11/13/2007 10:54		2000.10g,in AmtRec: 20ML,4XLP,4LP #Containers: 6					G7	1023		
							Scr:	Alpha: 1.58E-03 uCi/Sa	Beta: 7.91E-04 uCi/Sa	
14 KCNP6-1-AA-B J7K200000-668-BLK 11/08/2007 12:42		2000.50g,in AmtRec: #Containers: 1					G10	1024		
							Scr:	Alpha:	Beta:	

102

12/27/2007 11:21:22 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 12/31/2007

Batch: 7324668 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:
15 KCNP6-1-AC-C J7K200000-668-LCS		2000.20g,in	QCAG1429 11/12/07,pd 03/07/05,r		100mL	200	511	1025	12/31/07	
11/08/2007 12:42		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:

Comments: KAVW7-SAMP "Comments: insuff. volume for duplicate. DLH 12/27/07"

PH<20. DLH 12/27/07

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

KAVWX1AD-SAMP Constituent List:

Co-60	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:6.00E+00	pCi/L	LCL:70	UCL:130	RPD:20	Cs-137DA	RDL:6.00E+00	pCi/L	LCL:70	UCL:130	RPD:20
Eu-154	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Eu-155	RDL:.00E+00	pCi/L	LCL:	UCL:	RPD:
K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Sb-125	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:

KCNP61AA-BLK:

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

KCNP61AC-LCS:

Cs-137	RDL:15	pCi/L	LCL:70	UCL:130	RPD:20	Cs-137DA	RDL:15	pCi/L	LCL:70	UCL:130	RPD:20
K-40	RDL:6	pCi/L	LCL:70	UCL:130	RPD:20	Ra-226	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20
RA-228	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20	RA-228DA	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20
U-238	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20						

KAVWX1AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KCNP61AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KCNP61AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 12/31/2007

Sep1 DT/Tm Tech:

Batch: 7324668 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD

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:

Approved By _____ Date: _____

12/31/2007 1:00:19 PM

ICOC Fraction Transfer/Status Report

ByDate: 12/31/2006, 1/5/2008, Batch: '7324668', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7324668						
AC		CalcC	HarrisD	12/27/2007 10:12:16		
SC			wagarr	IsBatched	11/20/2007 4:11:51 PM	ICOC_RADCALC v4.8.29
SC			HarrisD	InPrep	12/27/2007 10:12:16 AM	RICH-RC-5017 Revision 6
SC			HarrisD	Prep1C	12/27/2007 11:21:29 AM	RICH-RC-5017 REVISION 6
SC			BockJ	InPrep2	12/27/2007 12:18:43 PM	RICH-RC-5017 REVISION 6
SC			BockJ	Prep2C	12/29/2007 11:56:22 AM	RICH-RC-5017 REVISION 6
SC			DAWKINSO	InCnt1	12/29/2007 1:16:11 PM	RICH-RD-0007 REVISION 6
SC			ClarkR	CalcC	12/31/2007 12:16:57 PM	RICH-RD-0007 REVISION 6
AC			HarrisD	12/27/2007 11:21:29		
AC			BockJ	12/27/2007 12:18:43		
AC			BockJ	12/29/2007 11:56:22		
AC			DAWKINSO	12/29/2007 1:16:11		
AC			ClarkR	12/31/2007 12:16:57		

AC: Accepting Entry; SC: Status Change

12/26/2007 7:40:02 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: 12/31/2007 W05265

Sep1 DT/Tm Tech:

Batch: 7324670 WATER pCi/L
SEQ Batch, Test: None All Tests: 7324670 BNTB,

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech: ,BostedD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KAVDV-1-AA J7K080383-1-SAMP 11/08/2007 10:22		3900.10g,in AmtRec: VIAL20,2X4LP	ITA6838 12/06/07 #Containers: 3		36.8	100	L4	1741 Scr: Alpha: -6.47E-04 uCi/Sa	12/27/07 DP	Beta: 1.05E-03 uCi/Sa
2 KAVDV-1-AC-X J7K080383-1-DUP 11/08/2007 10:22		3884.20g,in AmtRec: VIAL20,2X4LP	ITA6839 12/06/07 #Containers: 3		37.2		L5	1741 Scr: Alpha: -6.47E-04 uCi/Sa		Beta: 1.05E-03 uCi/Sa
3 KAVDW-1-AA J7K080383-2-SAMP 11/08/2007 09:27		3892.00g,in AmtRec: VIAL20,2X4LP	ITA6840 12/06/07 #Containers: 3		35.9		L2	1742 Scr: Alpha: -2.78E-04 uCi/Sa		Beta: 1.31E-03 uCi/Sa
4 KAVWW-1-AA J7K090108-1-SAMP 11/08/2007 09:35		3897.60g,in AmtRec: VIAL20,2X4LP	ITA6841 12/06/07 #Containers: 3		36.0		L2	1925 Scr: Alpha: 9.48E-04 uCi/Sa		Beta: -4.19E-04 uCi/Sa
5 KAVW1-1-AE J7K090108-3-SAMP 11/08/2007 11:07		3941.90g,in AmtRec: VIAL20,LP,3X4LP	ITA6842 12/06/07 #Containers: 5		37.7		L4	1926 Scr: Alpha: -4.41E-03 uCi/Sa		Beta: 3.24E-03 uCi/Sa
6 KAVW4-1-AA J7K090110-1-SAMP 11/08/2007 10:21		3911.30g,in AmtRec: VIAL20,2X4LP	ITA6843 12/06/07 #Containers: 3		36.7		L5	↓ Scr: Alpha: 1.77E-03 uCi/Sa		Beta: -9.37E-04 uCi/Sa
7 KAVW9-1-AE J7K090110-5-SAMP 11/08/2007 11:52		3905.80g,in AmtRec: VIAL20,LP,3X4LP	ITA6844 12/06/07 #Containers: 5		35.8		L2	2104 Scr: Alpha: -3.22E-04 uCi/Sa		Beta: 4.41E-04 uCi/Sa

12/26/2007 7:40:09 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: 12/31/2007

Sep1 DT/Tm Tech:

Batch: 7324670 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BostedD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 KAVXD-1-AE J7K090110-6-SAMP 11/08/2007 13:34		3896.80g,in AmtRec: VIAL20,LP,3X4LP	ITA6845 12/06/07 #Containers: 5		35.9	100	L4 12/27/07	2110 Scr: Alpha: -1.38E-03 uCi/Sa	12/27/07	Beta: 2.68E-03 uCi/Sa
9 KAVXE-1-AE J7K090110-7-SAMP 11/08/2007 13:34 .		3947.90g,in AmtRec: VIAL20,LP,3X4LP	ITA6846 12/06/07 #Containers: 5		36.1		L5	Scr: Alpha: 1.05E-03 uCi/Sa		Beta: 1.70E-03 uCi/Sa
10 KAVXG-1-AE J7K090110-8-SAMP 11/08/2007 10:59		3890.00g,in AmtRec: VIAL20,5XLP,3X4LP	ITA6847 12/06/07 #Containers: 9		35.3		L2	2256 Scr: Alpha: 1.13E-03 uCi/Sa		Beta: -5.25E-04 uCi/Sa
11 KCNQQ-1-AA-B J7K200000-670-BLK 11/08/2007 10:22		3859.10g,in AmtRec:	ITA6848 12/06/07 #Containers: 1		34.5		L4	2256 Scr: Alpha:		Beta:
12 KCNQQ-1-AC-C J7K200000-670-LCS 11/08/2007 10:22		3903.10g,in AmtRec:	ISD0796 11/27/07 #Containers: 1		36.4		L5	2257 Scr: Alpha:		Beta:

Comments:

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

KAVDV1AA-SAMP Constituent List:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:

12/26/2007 7:40:12 AM

Sample Preparation/Analysis

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

Balance Id:2113224201

Pipet #: _____

AnalyDueDate: 12/31/2007

Sep1 DT/Tm Tech:

Batch: 7324670 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BostedD

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

```
KCNQQ1AA-BLK:
  I-129        RDL:1.00E+00    pCi/L    LCL:        UCL:        RPD:
KCNQQ1AC-LCS:
  I-129        RDL:5           pCi/L    LCL:70      UCL:130     RPD:20
KAVDV1AA-SAMP Calc Info:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
KCNQQ1AA-BLK:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
KCNQQ1AC-LCS:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

Approved By _____ Date: _____

12/28/2007 3:22:27 PM

ICOC Fraction Transfer/Status Report

ByDate: 12/28/2006, 1/2/2008, Batch: '7324670', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7324670						
AC		**CalcC**	**BostedD**	12/27/2007 3:54:40		
SC			wagarr	IsBatched	11/20/2007 4:11:51 PM	ICOC_RADCALC v4.8.29
SC			BostedD	Prep2C	12/27/2007 3:54:40 PM	RICHRC5025 REVISION 4
SC			DAWKINSO	InCnt1	12/27/2007 4:05:02 PM	RICH-RD-0007 REVISION 6
SC			ClarkR	CalcC	12/28/2007 8:29:40 AM	RICH-RD-0007 REVISION 6
AC			**DAWKINSO**	12/27/2007 4:05:02		
AC			**ClarkR**	12/28/2007 8:29:40		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 3

ICOCFractions v4.8.30

12/11/2007 7:56:49 AM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 12/31/2007

Sep1 DT/Tm Tech:

Batch: 7324646 WATER pCi/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 KA62F-1-AE J7K130305-3-SAMP 11/13/2007 10:54		125.03g,in AmtRec: 20ML,4XLP,4LP	#Containers: 6	60		Scr:	Alpha: 2.43E-03 uCi/Sa	Beta: 1.65E-03 uCi/Sa
2 KA62F-1-AF-X J7K130305-3-DUP 11/13/2007 10:54		125.03g,in AmtRec: 20ML,4XLP,4LP	#Containers: 6			Scr:	Alpha: 2.43E-03 uCi/Sa	Beta: 1.65E-03 uCi/Sa
3 KA62K-1-AE J7K130305-4-SAMP 11/13/2007 10:54		125.02g,in AmtRec: 20ML,4XLP,4LP	#Containers: 6			Scr:	Alpha: 1.58E-03 uCi/Sa	Beta: 7.91E-04 uCi/Sa
4 KA62K-1-AF-S J7K130305-4-MS 11/13/2007 10:54		125.03g,in AmtRec: 20ML,4XLP,4LP	TCSG1936 11/20/07,pd 01/10/08,r #Containers: 6			Scr:	Alpha: 1.58E-03 uCi/Sa	Beta: 7.91E-04 uCi/Sa
5 KCNMA-1-AA-B J7K200000-646-BLK 11/13/2007 10:54		125.03g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 KCNMA-1-AC-C J7K200000-646-LCS 11/13/2007 10:54		125.04g,in AmtRec:	TCSE2181 11/20/07,pd 01/10/08,r #Containers: 1			Scr:	Alpha:	Beta:
7 KCNMA-1-AD-BN J7K200000-646-IBLK 11/13/2007 10:54		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

12/11/2007 7:56:50 AM

Sample Preparation/Analysis

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

Balance Id:

Pipet #: _____

AnalyDueDate: 12/31/2007

Sep1 DT/Tm Tech:

Batch: 7324646 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech:

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

Comments:

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

KA62F1AE-SAMP Constituent List:
Tc-99 RDL:1.50E+01 pCi/L LCL:70 UCL:130 RPD:20
KA62K1AF-MS:

KCNMA1AA-BLK:
Tc-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:
KCNMA1AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
KCNMA1AD-IBLK:
Tc-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:

KA62F1AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KA62K1AF-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KCNMA1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KCNMA1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KCNMA1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

12/31/2007 11:32:11 AM

ICOC Fraction Transfer/Status Report

ByDate: 12/31/2006, 1/5/2008, Batch: '7324646', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7324646						
AC		**CalcC**	**Barcotl**	12/11/2007 7:59:47		
SC			wagarr	IsBatched	11/20/2007 4:11:51 PM	ICOC_RADCALC v4.8.29
SC			Barcotl	InPrep	12/11/2007 7:59:47 AM	RICH-RC-5016 REVISION 7
SC			Barcotl	Prep1C	12/11/2007 8:00:03 AM	RICH-RC-5016 REVISION 7
SC			FABREM	Sep1C	12/19/2007 6:37:11 PM	RICH-RC-5078 REVISION 4
SC			DAWKINSO	InCnt1	12/19/2007 7:45:54 PM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	12/20/2007 12:50:50 PM	RICH-RD-0001 REVISION 4
AC			**Barcotl**	12/11/2007 8:00:03		
AC			**FABREM**	12/19/2007 6:37:11		
AC			**DAWKINSO**	12/19/2007 7:45:54		
AC			**BlackCL**	12/20/2007 12:50:50		

AC: Accepting Entry; SC: Status Change

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

RE-COUNT REQUEST

DUE DATE 12-31

CUSTOMER PGW

ANALAYSIS Ni 63

MATRIX H_2O

LOT NUMBER J7K090110

SAMPLE DELIVERY GROUP

OLD BATCH NUMBER 7324672

NEW BATCH NUMBER 8002374

LAB SAMPLE ID	CLIENT ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1) KCNRC 1A0 N	PGW	TSIE OUT / NO CARRIER IN N BLK
2) KAVXG 1AF		
3) KAVXG 1AJ R		
4) KCNRC 1A B		
5) KCNRC 1A S		
6)		
7)		
8)		
9)		
10)		
11)		
12)		
13)		
14)		
15)		
16)		
17)		
18)		
19)		
20)		

RC-126, 12/07, Rev 5

1/2/2008 2:00:58 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 12/31/2007

Batch: 8002374 **WATER** **pCi/L** **PM, Quote: SA , 57671**
SEQ Batch, Test: None

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

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KAVXG-2-AF										
J7K090110-8-SAMP										
11/08/2007 10:59		AmtRec: VIAL20,5XLP,3X4LP	#Containers: 9				Scr:	Alpha: 1.13E-03 uCi/Sa		Beta: -5.25E-04 uCi/Sa
2 KAVXG-2-AJ-X										
J7K090110-8-DUP										
11/08/2007 10:59		AmtRec: VIAL20,5XLP,3X4LP	#Containers: 9				Scr:	Alpha: 1.13E-03 uCi/Sa		Beta: -5.25E-04 uCi/Sa
3 KCNRC-2-AA-B										
J7K200000-672-BLK										
11/08/2007 10:59		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:
4 KCNRC-2-AC-C										
J7K200000-672-LCS										
11/08/2007 10:59		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:
5 KCNRC-2-AD-B										
J7K200000-672-BLK										
11/08/2007 10:59		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:

Comments:

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

KAVXG2AF-SAMP Constituent List:

1/2/2008 2:00:58 PM

Sample Preparation/Analysis

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

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

AnalyDueDate: 12/31/2007

Batch: 8002374 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:

KCNRC2AA-BLK:

KCNRC2AC-LCS:

KCNRC2AD-BLK:

KAVXG2AF-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KCNRC2AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KCNRC2AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KCNRC2AD-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

1/4/2008 10:53:05 AM

ICOC Fraction Transfer/Status Report

ByDate: 1/4/2007, 1/9/2008, Batch: '8002374', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8002374						
AC		Rev1C	DAWKINSO	1/2/2008 2:56:08 PM		
SC			nortonj	IsBatched	1/2/2008 2:00:55 PM	ICOC_RADCALC v4.8.29
SC			DAWKINSO	InCnt1	1/2/2008 2:56:08 PM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	1/4/2008 7:31:24 AM	RICH-RD-0001 REVISION 4
SC			nortonj	Rev1C	1/4/2008 10:45:36 AM	RICH-RC-0002 REV 8
AC			BlackCL	1/4/2008 7:31:24 AM		
AC			nortonj	1/4/2008 10:45:36		

AC: Accepting Entry; SC: Status Change