TESTAMERICA RICHLAND - AMENDED

REVISED
Entire package replaced.
2/14/08

Analytical Data Package Prepared For

Fluor Hanford

RECEIVED
MAY 07 2008
EDMC

Radiochemical Analysis By

TAL Richland TARL

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

Data Package Contains 147 Pages

Report Nbr: 38219

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05283	I08-008	B1R332	J7L070402-1	KDQFA2AA	9KDQFA20	8016175
		B1R373	J7L070402-2	KDQFJ2AA	9KDQFJ20	8016175
		B1R331	J7L070402-4	KDQFQ1AA	9KDQFQ10	8016175
		B1R372	J7L070402-5	KDQFV1AA	9KDQFV10	8016175
	W08-011	B1R6J9	J7L070403-1	KDQE62AA	9KDQE620	8015172
		B1R681	J7L100165-1	KDTWM1A	9KDTWM10	7346608
		B1R681	J7L100165-1	KDTWM1A	9KDTWM10	7346611
		B1R681	J7L100165-1	KDTWM1A	9KDTWM10	7346605
		B1R682	J7L100165-2	KDTWV1AA	9KDTWV10	7346608
		B1R682	J7L100165-2	KDTWV1AC	9KDTWV10	7346611
		B1R682	J7L100165-2	KDTWV1AD	9KDTWV10	7346605
	I08-005	B1R267	J7L100171-1	KDT3E1AA	9KDT3E10	7346608
		B1R267	J7L100171-1	KDT3E1AC	9KDT3E10	7346611
		B1R266	J7L100171-2	KDT3Q1AA	9KDT3Q10	7346608
		B1R266	J7L100171-2	KDT3Q1AC	9KDT3Q10	7346611

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Comments:

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Report Nbr: 38219

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05283	I08-005	B1R278	J7L100171-3	KDT361AA	9KDT3610	7346608
		B1R278	J7L100171-3	KDT361AC	9KDT3610	7346611
		B1R282	J7L100171-4	KDT4E1AA	9KDT4E10	7346608
		B1R282	J7L100171-4	KDT4E1AC	9KDT4E10	7346611
		B1R281	J7L100171-5	KDT4H1AA	9KDT4H10	7346608
		B1R281	J7L100171-5	KDT4H1AC	9KDT4H10	7346611
		B1R262	J7L100171-6	KDT4M1AA	9KDT4M10	7346618
		B1R262	J7L100171-6	KDT4M1AC	9KDT4M10	7346615
		B1R262	J7L100171-6	KDT4M1AD	9KDT4M10	7346608
		B1R262	J7L100171-6	KDT4M1AE	9KDT4M10	7346611
		B1R291	J7L100171-7	KDT4T1AA	9KDT4T10	7346618
		B1R291	J7L100171-7	KDT4T1AC	9KDT4T10	7346615
		B1R291	J7L100171-7	KDT4T1AD	9KDT4T10	7346608
		B1R291	J7L100171-7	KDT4T1AE	9KDT4T10	7346611
	W08-012	B1RHR5	J7L100244-1	KDVKW1AA	9KDVKW10	7346619
		B1RHR5	J7L100244-1	KDVKW1AC	9KDVKW10	7346608
		B1RHR5	J7L100244-1	KDVKW1AD	9KDVKW10	7346611
		B1RHR5	J7L100244-1	KDVKW1AE	9KDVKW10	7346605
		B1RHR5	J7L100244-1	KDVKW1AF	9KDVKW10	7346607
		B1RHM2	J7L100244-2	KDVK11AA	9KDVK110	7346608
		B1RHM2	J7L100244-2	KDVK11AC	9KDVK110	7346611
		B1RHM2	J7L100244-2	KDVK11AD	9KDVK110	7346605
		B1RHM2	J7L100244-2	KDVK11AE	9KDVK110	7346607
		B1RHN3	J7L100244-3	KDVK21AA	9KDVK210	7346608
		B1RHN3	J7L100244-3	KDVK21AC	9KDVK210	7346611
		B1RHN3	J7L100244-3	KDVK21AD	9KDVK210	7346605

Comments:

2

Report Nbr: 38219

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05283	W08-012	B1RHN3	J7L100244-3	KDVK21AE	9KDVK210	7346607
	I08-007	B1R2N9	J7L100245-1	KDVK01AA	9KDVK010	7346604
		B1R2N9	J7L100245-1	KDVK01AC	9KDVK010	7346605
		B1R2N9	J7L100245-1	KDVK01AE	9KDVK010	7346616
		B1R2N9	J7L100245-1	KDVK01AF	9KDVK010	7346607
		B1R2N9	J7L100245-1	KDVK01AG	9KDVK010	7346603
		B1R2N9	J7L100245-1	KDVK02AD	9KDVK020	8016175

Comments:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Amended Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

February 6, 2008

Attention: Steve Trent

SAF Number	:	I08-007, I08-008, W08-011, I08-005, W08-012
Date SDG Closed	:	December 10, 2007
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05283
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between December 7, 2007 and December 10, 2007 twenty water samples were received at STL Richland (STLR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Fluor Hanford specific IDs:

PGW ID#	STLR ID#	DATE OF RECEIPT	MATRIX
B1R2R8	KDQEC	12/7/07	WATER
B1R332	KDQFA	12/7/07	WATER
B1R373	KDQFJ	12/7/07	WATER
B1R317	KDQFM	12/7/07	WATER
B1R331	KDQFQ	12/7/07	WATER
B1R372	KDQFV	12/7/07	WATER
B1R6J9	KDQE6	12/7/07	WATER
B1R681	KDTWM	12/7/07	WATER
B1R682	KDTWV	12/7/07	WATER
B1R267	KDT3E	12/7/07	WATER
B1R266	KDT3Q	12/7/07	WATER
B1R278	KDT36	12/7/07	WATER
B1R282	KDT4E	12/7/07	WATER

B1R281	KDT4H	12/7/07	WATER
B1R262	KDT4M	12/7/07	WATER
B1R291	KDT4T	12/7/07	WATER
B1RHR5	KDVKW	12/10/07	WATER
B1RHM2	KDVK1	12/10/07	WATER
B1RHN3	KDVK2	12/10/07	WATER
B1R2N9	KDVK0	12/10/07	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:

Alpha Spectroscopy
Uranium 234, 235 and 238 by method RICH-RC-5039
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
Selenium-79 by method RICH-RC-5043
Technetium-99 by TEVA method RICH-RC-5065
Tritium by method RICH-RC-5007
Carbon-14 by method RICH-RC-5022
Chemical Analysis
Hexavalent Chromium by EPA method 7196A
Total Coliform by method 9223

IV. Quality Control

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

QC and sample results are reported in the same units.

V. Comments

Alpha Spectroscopy

Uranium 234, 235 and 238 by method RICH-RC-5039:
The LCS, batch blank, sample and sample duplicate (B1R2N9) results are within contractual requirements.

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:
Samples B1R278, B1R267, B1R266, B1R262, B1R291, B1R681, B1R682, B1RHM2, B1RHN3, B1RHR5 and B1RHR5 (DUP) were analyzed with reduced aliquots base on weight screen. Except as noted, the LCS, batch blank, samples and sample duplicate (B1RHR5) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:
Samples B1R681 and B1R682 were analyzed with reduced aliquots based on weight screens. Except as noted, the LCS, batch blank, samples and sample duplicate (B1RHM2) results are within contractual requirements

Strontium-90 by method RICH-RC-5006
The LCS, batch blank, samples and sample duplicate (B1RHR5) results are within contractual requirements

Gamma Spectroscopy

Gamma Spec (LL) by method RICH-RC-5017:
The LCS, batch blank, samples and sample duplicate (B1R681) results are within contractual requirements

Iodine-129 (LL) by method RICH-RC-5025:
A portion of the samples in batch 7346606 were possibly cross-contaminated. One of the samples being processed on the hot plate popped. Sample IDs B1R332, B1R373, B1R2N9 and B1R2R8 were on the hot plate during the popping event. These samples were realiquoted except for B1R2R8. There was insufficient sample volume remaining for B1R2R8 therefore it is failed. Sample IDs B1R317, B1R331 and B1R372 did not have to be realiquoted because the samples were covered and away from the hot plate during the popping event. All the samples continued processing under batch 8016175. Sample B1R317 had a low tracer yield and there is no sample remaining for a reanalysis. B1R317 is failed. A duplicate sample was not processed in batch 8016175. Sample B1R372 was reanalyzed once again in batch 8028306 for the duplicate. Except as noted, the LCS, batch blank, samples and sample duplicate (B1R372) results are within contractual requirements.

Liquid Scintillation Counting

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

The LCS, batch blank, samples, sample duplicate (B1R6J9), and sample matrix spike (B1R6J9) results are within contractual requirements.

Selenium-79 by method RICH-RC-5043:

There is no LCS for selenium-79. Except as noted, batch blank, samples and sample duplicate (B1R2N9) results are within contractual requirements.

Tritium by method RICH-RC-5007:

The LCS, batch blank, samples and sample duplicate (B1R262) results are within contractual requirements.

Carbon-14 by method RICH-RC-5022:

The LCS, batch blank, samples and sample duplicate (B1R2N9) results are within contractual requirements.

Chemical Analysis

Total Coliform by method 9223

The LCS, batch blank, samples and sample duplicate (B1RHR5) results are within contractual requirements

Hexavalent Chromium by EPA method 7196A

The LCS, batch blank, samples, sample duplicate (B1R262), sample matrix spike (B1R262), and matrix spike duplicate (B1R262) results are within contractual requirements.

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

Reviewed and approved:

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/TotUncert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the **Work Order** Number.
RER	The equation Replicate Error Ratio = (S-D)/[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: 38219 File Name: h:\Reportdb\edd\FeadIV\Rad\W05283.Edd, h:\Reportdb\edd\FeadIV\Rad\38219.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:
9KDQE620	B1R6J9		MW6-SBB-A1	W08-011	W05283					12/06/2007 13:16

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8015172	TC-99	14133-76-7	2.18E+01	pCi/L	4.7E+00	6.9E+00		9.53E+00	100.0	TC99_ETVDSK_LS	1.2503E-01	L	01/19/2008 02:59	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KDQFA20	B1R332		MW6-SBB-A1	I08-008	W05283					12/06/2007 14:26

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8016175	I-129L	15046-84-1	-2.49E-02	pCi/L	1.4E-01	1.4E-01	U	2.41E-01	100.3	I129LL_SEP_LEPS	3.8835E+00	L	01/22/2008 18:45	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:
9KDQFJ20	B1R373		MW6-SBB-A1	I08-008	W05283					12/06/2007 11:14

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8016175	I-129L	15046-84-1	1.13E-01	pCi/L	1.4E-01	1.4E-01	U	2.80E-01	99.2	I129LL_SEP_LEPS	3.8713E+00	L	01/22/2008 18:45	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:
9KDQFQ10	B1R331		MW6-SBB-A1	I08-008	W05283					12/06/2007 14:26

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8016175	I-129L	15046-84-1	-2.18E-02	pCi/L	1.7E-01	1.7E-01	U	2.95E-01	83.0	I129LL_SEP_LEPS	3.8905E+00	L	01/22/2008 20:28	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KDQFV10	B1R372		MW6-SBB-A1	I08-008	W05283					12/06/2007 11:14

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8016175	I-129L	15046-84-1	-1.32E-01	pCi/L	2.3E-01	2.3E-01	U	4.03E-01	49.2	I129LL_SEP_LEPS	3.8999E+00	L	01/22/2008 20:29	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:
9KDT3610	B1R278		MW6-SBB-A1	I08-005	W05283					12/07/2007 09:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7346608	ALPHA	12587-46-1	1.05E+00	pCi/L	7.8E-01	8.1E-01	U	1.13E+00	100.0	9310_ALPHABETA	1.562E-01	L	01/17/2008 21:04	I
7346611	BETA	12587-47-2	6.47E+00	pCi/L	1.8E+00	1.9E+00		2.87E+00	100.0	9310_ALPHABETA	2.00E-01	L	01/17/2008 16:30	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:
9KDT3E10	B1R267		MW6-SBB-A1	I08-005	W05283					12/07/2007 10:35

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.

TESTAMERICA RICHLAND - AMENDED

1/31/2008 2:13:32 PM

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 38219 File Name: h:\Reportdb\edd\FeadIV\Rad\W05283.Edd, h:\Reportdb\edd\FeadIV\Rad\38219.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7346608	ALPHA	12587-46-1	1.67E+00	pCi/L	1.0E+00	1.1E+00		1.33E+00	100.0	9310_ALPHABETA	1.252E-01	L	01/17/2008 19:05	I
7346611	BETA	12587-47-2	8.39E+00	pCi/L	1.8E+00	2.1E+00		2.76E+00	100.0	9310_ALPHABETA	2.004E-01	L	01/17/2008 16:12	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KDT3Q10	B1R266		MW6-SBB-A1	I08-005	W05283					12/07/2007 10:35

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7346608	ALPHA	12587-46-1	1.05E+00	pCi/L	8.5E-01	8.7E-01	U	1.31E+00	100.0	9310_ALPHABETA	1.315E-01	L	01/17/2008 21:04	I
7346611	BETA	12587-47-2	7.20E+00	pCi/L	1.7E+00	2.0E+00		2.72E+00	100.0	9310_ALPHABETA	2.003E-01	L	01/17/2008 16:12	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KDT4E10	B1R282		MW6-SBB-A1	I08-005	W05283					12/07/2007 07:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7346608	ALPHA	12587-46-1	-8.22E-02	pCi/L	2.2E-01	2.2E-01	U	9.19E-01	100.0	9310_ALPHABETA	2.003E-01	L	01/17/2008 17:35	I
7346611	BETA	12587-47-2	4.97E-01	pCi/L	1.1E+00	1.1E+00	U	2.31E+00	100.0	9310_ALPHABETA	2.004E-01	L	01/17/2008 16:30	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:
9KDT4H10	B1R281		MW6-SBB-A1	I08-005	W05283					12/07/2007 12:52

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7346608	ALPHA	12587-46-1	1.79E+00	pCi/L	1.3E+00	1.3E+00		1.59E+00	100.0	9310_ALPHABETA	1.999E-01	L	01/17/2008 17:35	I
7346611	BETA	12587-47-2	4.73E+00	pCi/L	1.7E+00	1.8E+00		3.01E+00	100.0	9310_ALPHABETA	2.003E-01	L	01/17/2008 16:30	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:
9KDT4M10	B1R262		MW6-SBB-A1	I08-005	W05283					12/07/2007 11:20

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7346615	H-3	10028-17-8	6.61E+02	pCi/L	1.3E+02	1.5E+02		2.58E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/18/2007 18:43	I
7346608	ALPHA	12587-46-1	1.19E+00	pCi/L	1.1E+00	1.1E+00	U	1.60E+00	100.0	9310_ALPHABETA	1.613E-01	L	01/17/2008 17:35	I
7346611	BETA	12587-47-2	4.40E+00	pCi/L	1.6E+00	1.7E+00		2.88E+00	100.0	9310_ALPHABETA	2.001E-01	L	01/17/2008 16:30	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:
9KDT4T10	B1R291		MW6-SBB-A1	I08-005	W05283					12/07/2007 08:51

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7346615	H-3	10028-17-8	1.72E+03	pCi/L	1.6E+02	1.9E+02		2.59E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/18/2007 21:26	I
7346608	ALPHA	12587-46-1	1.40E+00	pCi/L	1.1E+00	1.1E+00	U	1.58E+00	100.0	9310_ALPHABETA	1.851E-01	L	01/18/2008 07:40	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.

7346611	BETA	12587-47-2	4.72E+00	pCi/L	1.6E+00	1.7E+00		2.78E+00	100.0	9310_ALPHABETA	2.002E-01	L	01/17/2008	16:12	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KDTWM10	B1R681		MW6-SBB-A1	W08-011	W05283					12/06/2007 11:14

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7346608	ALPHA	12587-46-1	1.39E+00	pCi/L	1.0E+00	1.1E+00	U	1.54E+00	100.0	9310_ALPHABETA	1.314E-01	L	01/17/2008	19:05	I
7346611	BETA	12587-47-2	6.30E+02	pCi/L	1.2E+01	8.1E+01		2.86E+00	100.0	9310_ALPHABETA	1.887E-01	L	01/17/2008	16:12	I
7346605	BE-7	13966-02-4	1.90E+01	pCi/L	2.2E+01	2.2E+01	U	4.12E+01		GAMMALL_GS	2.00E+00	L	01/22/2008	14:38	I
7346605	CO-60	10198-40-0	1.20E+00	pCi/L	1.7E+00	1.7E+00	U	3.57E+00		GAMMALL_GS	2.00E+00	L	01/22/2008	14:38	I
7346605	CS-134	13967-70-9	-6.41E-01	pCi/L	1.8E+00	1.8E+00	U	3.20E+00		GAMMALL_GS	2.00E+00	L	01/22/2008	14:38	I
7346605	CS-137	10045-97-3	-7.21E-01	pCi/L	1.6E+00	1.6E+00	U	2.77E+00		GAMMALL_GS	2.00E+00	L	01/22/2008	14:38	I
7346605	EU-152	14683-23-9	-1.64E+00	pCi/L	4.1E+00	4.1E+00	U	6.89E+00		GAMMALL_GS	2.00E+00	L	01/22/2008	14:38	I
7346605	EU-154	15585-10-1	-4.59E+00	pCi/L	4.6E+00	4.6E+00	U	7.25E+00		GAMMALL_GS	2.00E+00	L	01/22/2008	14:38	I
7346605	EU-155	14391-16-3	-1.88E+00	pCi/L	3.4E+00	3.4E+00	U	5.77E+00		GAMMALL_GS	2.00E+00	L	01/22/2008	14:38	I
7346605	K-40	13966-00-2	-1.95E+01	pCi/L	4.2E+01	4.2E+01	U	8.71E+01		GAMMALL_GS	2.00E+00	L	01/22/2008	14:38	I
7346605	RU-106	13967-48-1	-8.26E+00	pCi/L	1.5E+01	1.5E+01	U	2.48E+01		GAMMALL_GS	2.00E+00	L	01/22/2008	14:38	I
7346605	SB-125	14234-35-6	1.03E+00	pCi/L	3.9E+00	3.9E+00	U	7.11E+00		GAMMALL_GS	2.00E+00	L	01/22/2008	14:38	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:
9KDTWV10	B1R682		MW6-SBB-A1	W08-011	W05283					12/06/2007 11:14

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7346608	ALPHA	12587-46-1	1.03E+00	pCi/L	9.6E-01	9.8E-01	U	1.58E+00	100.0	9310_ALPHABETA	1.086E-01	L	01/17/2008	19:05	I
7346611	BETA	12587-47-2	2.61E+02	pCi/L	8.4E+00	3.8E+01		3.30E+00	100.0	9310_ALPHABETA	1.612E-01	L	01/17/2008	16:12	I
7346605	BE-7	13966-02-4	-1.03E+01	pCi/L	2.4E+01	2.4E+01	U	4.04E+01		GAMMALL_GS	2.0001E+00	L	01/22/2008	14:38	I
7346605	CO-60	10198-40-0	-1.65E-01	pCi/L	1.7E+00	1.7E+00	U	3.09E+00		GAMMALL_GS	2.0001E+00	L	01/22/2008	14:38	I
7346605	CS-134	13967-70-9	-1.33E-01	pCi/L	1.7E+00	1.7E+00	U	3.06E+00		GAMMALL_GS	2.0001E+00	L	01/22/2008	14:38	I
7346605	CS-137	10045-97-3	-4.25E-01	pCi/L	1.6E+00	1.6E+00	U	2.87E+00		GAMMALL_GS	2.0001E+00	L	01/22/2008	14:38	I
7346605	EU-152	14683-23-9	1.96E+00	pCi/L	4.5E+00	4.5E+00	U	8.24E+00		GAMMALL_GS	2.0001E+00	L	01/22/2008	14:38	I
7346605	EU-154	15585-10-1	1.96E+00	pCi/L	4.4E+00	4.4E+00	U	8.93E+00		GAMMALL_GS	2.0001E+00	L	01/22/2008	14:38	I
7346605	EU-155	14391-16-3	1.30E-01	pCi/L	3.3E+00	3.3E+00	U	5.64E+00		GAMMALL_GS	2.0001E+00	L	01/22/2008	14:38	I
7346605	K-40	13966-00-2	-3.27E+01	pCi/L	3.7E+01	3.7E+01	U	7.71E+01		GAMMALL_GS	2.0001E+00	L	01/22/2008	14:38	I
7346605	RU-106	13967-48-1	-1.32E+01	pCi/L	1.6E+01	1.6E+01	U	2.59E+01		GAMMALL_GS	2.0001E+00	L	01/22/2008	14:38	I
7346605	SB-125	14234-35-6	1.49E-01	pCi/L	3.8E+00	3.8E+00	U	6.86E+00		GAMMALL_GS	2.0001E+00	L	01/22/2008	14:38	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.

TESTAMERICA RICHLAND - AMENDED 12

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: READ Version: 1.5 Rpt Nbr: 38219 File Name: h:\Reports\Edd\FeadRV4\Raw\W05283.Edd, h:\Reports\Edd\FeadRV4\Rad\38219.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:
9KDVK010	B1R2N9		MW6-SBB-A1	I08-007	W05283					12/10/2007 11:53

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7346604	C-14	14762-75-5	-3.96E+00	pCi/L	3.5E+00	4.2E+00	U	8.77E+00	100.0	C14_LSC	2.00E-01	L	12/18/2007 20:49	I
7346605	BE-7	13966-02-4	4.55E+00	pCi/l	1.6E+01	1.6E+01	U	2.97E+01		GAMMALL_GS	2.0004E+00	L	01/22/2008 14:39	I
7346605	CO-60	10198-40-0	1.52E+00	pCi/L	1.8E+00	1.8E+00	U	3.68E+00		GAMMALL_GS	2.0004E+00	L	01/22/2008 14:39	I
7346605	CS-134	13967-70-9	2.39E-01	pCi/L	1.5E+00	1.5E+00	U	2.87E+00		GAMMALL_GS	2.0004E+00	L	01/22/2008 14:39	I
7346605	CS-137	10045-97-3	1.33E-01	pCi/L	1.6E+00	1.6E+00	U	2.89E+00		GAMMALL_GS	2.0004E+00	L	01/22/2008 14:39	I
7346605	EU-152	14683-23-9	-1.71E+00	pCi/L	3.8E+00	3.8E+00	U	6.38E+00		GAMMALL_GS	2.0004E+00	L	01/22/2008 14:39	I
7346605	EU-154	15585-10-1	2.63E-01	pCi/L	3.8E+00	3.8E+00	U	7.44E+00		GAMMALL_GS	2.0004E+00	L	01/22/2008 14:39	I
7346605	EU-155	14391-16-3	1.17E+00	pCi/L	2.4E+00	2.4E+00	U	4.36E+00		GAMMALL_GS	2.0004E+00	L	01/22/2008 14:39	I
7346605	K-40	13966-00-2	1.12E+01	pCi/L	2.2E+01	2.2E+01	U	4.30E+01		GAMMALL_GS	2.0004E+00	L	01/22/2008 14:39	I
7346605	RU-106	13967-48-1	-6.69E+00	pCi/L	1.3E+01	1.3E+01	U	2.15E+01		GAMMALL_GS	2.0004E+00	L	01/22/2008 14:39	I
7346605	SB-125	14234-35-6	1.16E-01	pCi/L	3.4E+00	3.4E+00	U	6.15E+00		GAMMALL_GS	2.0004E+00	L	01/22/2008 14:39	I
7346616	Se-79	15758-45-9	4.80E+00	pCi/L	8.8E+00	1.7E+01	U	2.09E+01	42.9	SE79_SEP_IE_LS	2.0002E-01	L	01/12/2008 07:25	I
7346607	SR-90	10098-97-2	2.80E-01	pCi/L	2.7E-01	2.7E-01	U	5.22E-01	74.6	SRISO_SEP_PRE	1.00E+00	L	01/12/2008 09:28	I
7346603	U-234	13966-29-5	1.45E+01	pCi/L	1.4E+00	2.7E+00		1.64E-01	86.7	UISO_PLATE_AEA	2.0002E-01	L	12/23/2007 13:23	I
7346603	U-235	15117-96-1	4.53E-01	pCi/L	2.5E-01	2.6E-01		1.64E-01	86.7	UISO_PLATE_AEA	2.0002E-01	L	12/23/2007 13:23	I
7346603	U-238	U-238	1.30E+01	pCi/L	1.3E+00	2.5E+00		1.32E-01	86.7	UISO_PLATE_AEA	2.0002E-01	L	12/23/2007 13:23	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KDVK020	B1R2N9		MW6-SBB-A1	I08-007	W05283					12/10/2007 11:53

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8016175	I-129L	15046-84-1	5.17E-01	pCi/L	2.7E-01	2.7E-01	U	4.25E-01	100.8	I129LL_SEP_LEPS	3.8864E+00	L	01/22/2008 22:11	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KDVK110	B1RHM2		MW6-SBB-A1	W08-012	W05283					12/10/2007 14:03

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7346608	ALPHA	12587-46-1	2.05E+00	pCi/L	1.4E+00	1.5E+00		1.80E+00	100.0	9310_ALPHABETA	1.851E-01	L	01/18/2008 07:40	I
7346611	BETA	12587-47-2	1.99E+01	pCi/L	2.4E+00	3.5E+00		2.86E+00	100.0	9310_ALPHABETA	2.002E-01	L	01/17/2008 16:12	I
7346605	BE-7	13966-02-4	-1.24E+01	pCi/L	1.3E+01	1.3E+01	U	2.10E+01		GAMMALL_GS	2.0005E+00	L	01/22/2008 14:39	I
7346605	CO-60	10198-40-0	1.63E-01	pCi/L	1.3E+00	1.3E+00	U	2.37E+00		GAMMALL_GS	2.0005E+00	L	01/22/2008 14:39	I
7346605	CS-134	13967-70-9	6.44E-01	pCi/L	1.1E+00	1.1E+00	U	2.20E+00		GAMMALL_GS	2.0005E+00	L	01/22/2008 14:39	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.

TRSTAMERICA RICHLAND - AMENDED

7346605	CS-137	10045-97-3	-4.90E-01	pCi/L	9.9E-01	9.9E-01	U	1.68E+00		GAMMALL_GS	2.0005E+00	L	01/22/2008	14:39 I
7346605	EU-152	14683-23-9	1.11E+00	pCi/L	2.7E+00	2.7E+00	U	4.86E+00		GAMMALL_GS	2.0005E+00	L	01/22/2008	14:39 I
7346605	EU-154	15585-10-1	-1.03E+00	pCi/L	3.3E+00	3.3E+00	U	5.84E+00		GAMMALL_GS	2.0005E+00	L	01/22/2008	14:39 I
7346605	EU-155	14391-16-3	2.89E+00	pCi/L	2.2E+00	2.2E+00	U	4.30E+00		GAMMALL_GS	2.0005E+00	L	01/22/2008	14:39 I
7346605	K-40	13966-00-2	-1.10E+01	pCi/L	2.5E+01	2.5E+01	U	4.94E+01		GAMMALL_GS	2.0005E+00	L	01/22/2008	14:39 I
7346605	RU-106	13967-48-1	3.32E-01	pCi/L	9.1E+00	9.1E+00	U	1.64E+01		GAMMALL_GS	2.0005E+00	L	01/22/2008	14:39 I
7346605	SB-125	14234-35-6	1.15E+00	pCi/L	2.6E+00	2.6E+00	U	4.79E+00		GAMMALL_GS	2.0005E+00	L	01/22/2008	14:39 I
7346607	SR-90	10098-97-2	1.85E-01	pCi/L	2.5E-01	2.5E-01	U	5.04E-01	76.7	SRISO_SEP_PRE	1.00E+00	L	01/12/2008	09:28 I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KDVK210	B1RHN3		MW6-SBB-A1	W08-012	W05283					12/10/2007 10:59

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7346608	ALPHA	12587-46-1	1.63E+00	pCi/L	1.2E+00	1.3E+00	U	1.68E+00	100.0	9310_ALPHABETA	1.666E-01	L	01/18/2008 07:40	I
7346611	BETA	12587-47-2	9.89E+00	pCi/L	1.8E+00	2.2E+00		2.52E+00	100.0	9310_ALPHABETA	2.00E-01	L	01/17/2008 18:06	I
7346605	BE-7	13966-02-4	-1.41E+01	pCi/L	2.6E+01	2.6E+01	U	4.38E+01		GAMMALL_GS	2.0003E+00	L	01/22/2008 14:39	I
7346605	CO-60	10198-40-0	1.17E+00	pCi/L	2.1E+00	2.1E+00	U	4.06E+00		GAMMALL_GS	2.0003E+00	L	01/22/2008 14:39	I
7346605	CS-134	13967-70-9	-2.90E-01	pCi/L	2.4E+00	2.4E+00	U	4.20E+00		GAMMALL_GS	2.0003E+00	L	01/22/2008 14:39	I
7346605	CS-137	10045-97-3	-1.03E+00	pCi/L	2.0E+00	2.0E+00	U	3.38E+00		GAMMALL_GS	2.0003E+00	L	01/22/2008 14:39	I
7346605	EU-152	14683-23-9	-8.12E+00	pCi/L	5.6E+00	5.6E+00	U	8.69E+00		GAMMALL_GS	2.0003E+00	L	01/22/2008 14:39	I
7346605	EU-154	15585-10-1	-1.72E+00	pCi/L	6.3E+00	6.3E+00	U	1.11E+01		GAMMALL_GS	2.0003E+00	L	01/22/2008 14:39	I
7346605	EU-155	14391-16-3	-3.47E+00	pCi/L	4.2E+00	4.2E+00	U	6.82E+00		GAMMALL_GS	2.0003E+00	L	01/22/2008 14:39	I
7346605	K-40	13966-00-2	2.20E+01	pCi/L	4.9E+01	4.9E+01	U	2.98E+01		GAMMALL_GS	2.0003E+00	L	01/22/2008 14:39	I
7346605	RU-106	13967-48-1	1.15E+01	pCi/L	1.8E+01	1.8E+01	U	3.39E+01		GAMMALL_GS	2.0003E+00	L	01/22/2008 14:39	I
7346605	SB-125	14234-35-6	-1.07E+00	pCi/L	5.4E+00	5.4E+00	U	9.23E+00		GAMMALL_GS	2.0003E+00	L	01/22/2008 14:39	I
7346607	SR-90	10098-97-2	3.06E-01	pCi/L	2.7E-01	2.7E-01	U	5.12E-01	70.0	SRISO_SEP_PRE	1.00E+00	L	01/12/2008 09:28	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KDVKW10	B1RHR5		MW6-SBB-A1	W08-012	W05283					12/10/2007 11:55

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7346608	ALPHA	12587-46-1	7.20E-01	pCi/L	8.3E-01	8.4E-01	U	1.54E+00	100.0	9310_ALPHABETA	1.252E-01	L	01/17/2008 21:04	I
7346611	BETA	12587-47-2	1.72E+03	pCi/L	2.0E+01	3.0E+02		2.69E+00	100.0	9310_ALPHABETA	2.004E-01	L	01/17/2008 16:12	I
7346605	BE-7	13966-02-4	-6.00E+00	pCi/L	1.8E+01	1.8E+01	U	3.05E+01		GAMMALL_GS	2.0002E+00	L	01/22/2008 14:39	I
7346605	CO-60	10198-40-0	-1.77E-01	pCi/L	1.5E+00	1.5E+00	U	2.84E+00		GAMMALL_GS	2.0002E+00	L	01/22/2008 14:39	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.

TESTAMERICA RICHLAND - AMENDED
14

TAL Richland Report

Lab Code: TARI

FormNbr: P FormatType: FLAD Version: 05 Rpt Nbr: 38219 File Name: h:\Reports\edd\FeadIV\Rad\W05283.Edd, h:\Reports\edd\FeadIV\Rad\38219.Edd

7346605	CS-134	13967-70-9	3.61E-01	pCi/L	1.6E+00	1.6E+00	U	3.03E+00		GAMMALL_GS	2.0002E+00	L	01/22/2008	14:39
7346605	CS-137	10045-97-3	-2.75E-01	pCi/L	1.4E+00	1.4E+00	U	2.53E+00		GAMMALL_GS	2.0002E+00	L	01/22/2008	14:39
7346605	EU-152	14683-23-9	-5.41E+00	pCi/L	3.9E+00	3.9E+00	U	5.73E+00		GAMMALL_GS	2.0002E+00	L	01/22/2008	14:39
7346605	EU-154	15585-10-1	1.28E+00	pCi/L	5.0E+00	5.0E+00	U	9.67E+00		GAMMALL_GS	2.0002E+00	L	01/22/2008	14:39
7346605	EU-155	14391-16-3	9.21E-01	pCi/L	2.9E+00	2.9E+00	U	5.26E+00		GAMMALL_GS	2.0002E+00	L	01/22/2008	14:39
7346605	K-40	13966-00-2	2.30E+01	pCi/L	3.4E+01	3.4E+01	U	6.93E+01		GAMMALL_GS	2.0002E+00	L	01/22/2008	14:39
7346605	RU-106	13967-48-1	-8.56E-01	pCi/L	1.5E+01	1.5E+01	U	2.74E+01		GAMMALL_GS	2.0002E+00	L	01/22/2008	14:39
7346605	SB-125	14234-35-6	2.21E+00	pCi/L	3.7E+00	3.7E+00	U	7.03E+00		GAMMALL_GS	2.0002E+00	L	01/22/2008	14:39
7346607	SR-90	10098-97-2	7.73E-01	pCi/L	3.4E-01	3.5E-01		5.52E-01	73.7	SRISO_SEP_PRE	1.00E+00	L	01/12/2008	09:28

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 31, 2008

TAL Richland QC Blank Report

Lab Code: TARI

Form Nbr: R FormatType: FLAD VersionNbr: 05 File Name: h:\Reports\Edd\FeadRad\R\d\W05283.Edd, h:\Reports\Edd\FeadRad\R\d\38219.Edd

Lab Sample Id:	KD2A21AB	Sdg/Rept Nbr:	W05283	38219	Collection Date: 12/10/2007 11:53
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BLK		Received Date: 12/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7346603	U-234	4.89E-02	pCi/L	9.8E-02	U	1.97E-01	89.6		UISO_PLATE_	2.00E-01	12/23/2007				D
BLK	13966-29-5			9.8E-02						L	13:24				
7346603	U-235	3.32E-02	pCi/L	9.9E-02	U	2.61E-01	89.6		UISO_PLATE_	2.00E-01	12/23/2007				D
BLK	15117-96-1			9.9E-02						L	13:24				
7346603	U-238	-3.91E-03	pCi/L	9.8E-02	U	1.97E-01	89.6		UISO_PLATE_	2.00E-01	12/23/2007				D
BLK	U-238			9.8E-02						L	13:24				

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 31, 2013

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: n:\Reportdb\edd\Fead\V\Rad\W05283.Fdd n:\Reportdb\edd\Fead\V\Rad\38219.Fdd

Lab Sample Id:	KD2A71AB	Sdg/Rept Nbr:	W05283	38219	Collection Date: 12/10/2007 11:53
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BLK		Received Date: 12/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7346604	C-14	-5.14E+00	pCi/L	4.2E+00	U	8.76E+00	100.0		C14_LSC	2.00E-01	12/18/2007				D
BLK	14762-75-5			3.4E+00						L	20:07				

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

Thursday January 31, 2008

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: HEAD VersionNbr: 05 File Name: [illegible]

Lab Sample Id:	KD2C81AB	Sdg/Rept Nbr:	W05283	38219	Collection Date: 12/10/2007 14:03
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BLK		Received Date: 12/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7346611	BETA	3.10E-01	pCi/L	1.1E+00	U	2.38E+00	100.0		9310_ALPHAB	2.004E-01	01/17/2008				D
BLK	12587-47-2			1.1E+00						L	18:06				

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.

TESTAMERICA RICHLAND - AMENDED

Thursday, January 31, 2008

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Fead\V\Rad\W05283.Edd, h:\Reportdb\edd\Fead\V\Rad\38219.Edd

Lab Sample Id: KD2CC1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05283 38219
Matrix: WATER WATER
QC Type: BLK

Collection Date: 12/06/2007 11:14
Sample On Date:
Received Date: 12/06/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7346605	BE-7	-3.57E+00	pCi/L	2.0E+01	U	3.50E+01			GAMMALL_GS	2.0002E+00	01/22/2008				D
BLK	13966-02-4			2.0E+01						L	18:16				
7346605	CO-60	-3.58E-01	pCi/L	1.8E+00	U	3.30E+00			GAMMALL_GS	2.0002E+00	01/22/2008				D
BLK	10198-40-0			1.8E+00						L	18:16				
7346605	CS-134	5.09E-01	pCi/L	1.7E+00	U	3.18E+00			GAMMALL_GS	2.0002E+00	01/22/2008				D
BLK	13967-70-9			1.7E+00						L	18:16				
7346605	CS-137	-2.78E-01	pCi/L	1.5E+00	U	2.73E+00			GAMMALL_GS	2.0002E+00	01/22/2008				D
BLK	10045-97-3			1.5E+00						L	18:16				
7346605	EU-152	-5.40E-01	pCi/L	3.9E+00	U	6.75E+00			GAMMALL_GS	2.0002E+00	01/22/2008				D
BLK	14683-23-9			3.9E+00						L	18:16				
7346605	EU-154	-2.02E+00	pCi/L	4.9E+00	U	8.63E+00			GAMMALL_GS	2.0002E+00	01/22/2008				D
BLK	15585-10-1			4.9E+00						L	18:16				
7346605	EU-155	-8.34E-01	pCi/L	3.5E+00	U	6.14E+00			GAMMALL_GS	2.0002E+00	01/22/2008				D
BLK	14391-16-3			3.5E+00						L	18:16				
7346605	K-40	-3.52E+01	pCi/L	4.2E+01	U	8.49E+01			GAMMALL_GS	2.0002E+00	01/22/2008				D
BLK	13966-00-2			4.2E+01						L	18:16				
7346605	RU-106	3.09E+00	pCi/L	1.5E+01	U	2.70E+01			GAMMALL_GS	2.0002E+00	01/22/2008				D
BLK	13967-48-1			1.5E+01						L	18:16				
7346605	SB-125	-3.22E+00	pCi/L	4.2E+00	U	6.97E+00			GAMMALL_GS	2.0002E+00	01/22/2008				D
BLK	14234-35-6			4.2E+00						L	18:16				

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

Thursday, January 31, 2008

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Feadl\V\Rad\W05283.Edd, h:\Reportdb\edd\Feadl\V\Rad\38219 Edd

Lab Sample Id:	KD2CJ2AB	Sdg/Rept Nbr:	W05283 38219	Collection Date:	12/07/2007 12:45
Client Id:	NA	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	BLK	Received Date:	12/07/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8016175	I-129L	2.26E-01	pCi/L	1.7E-01	U	2.93E-01	101.6		I129LL_SEP_L	3.8438E+00	01/22/2008				D
BLK	15046-84-1			1.7E-01						L	22:12				

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

Thursday, January 31, 2008

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05283.Edd, h:\Reportdb\edd\FeadIV\Rad\38219.Edd

Lab Sample Id:	KD2CP1AB	Sdg/Rept Nbr:	W05283 38219	Collection Date:	12/10/2007 11:55
Client Id:	NA	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	BLK	Received Date:	12/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7346607	SR-90	1.66E-01	pCi/L	2.3E-01	U	4.86E-01	76.7		SRISO_SEP_P	1.00E+00	01/12/2008				D
BLK	10098-97-2			2.3E-01						L	09:28				

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 31, 2008

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05283.Edd, h:\Reportdb\edd\FeadIV\Rad\38219.Edd

Lab Sample Id:	KD2CX1AB	Sdg/Rept Nbr:	W05283	38219	Collection Date: 12/10/2007 11:55
Client Id:	N/A	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BLK		Received Date: 12/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7346608	ALPHA	1.26E-01	pCi/L	2.5E-01	U	5.35E-01	100.0		9310_ALPHAB	2.001E-01	01/17/2008				D
BLK	12587-46-1			2.5E-01						L	21:04				

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.

Thursday, January 31, 2008

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05283.Edd, h:\Reportdb\edd\FeadIV\Rad\38219.Edd

Lab Sample Id:	KD2DF1AB	Sdg/Rept Nbr:	W05283 38219	Collection Date:	12/07/2007 11:20
Client Id:	NA	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	BLK	Received Date:	12/07/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7346615	H-3	4.83E+00	pCi/L	1.2E+02	U	2.60E+02	100.0		906.0_H3_LSC	5.00E-03	12/18/2007				D
BLK	10028-17-8			1.1E+02						L	13:16				

TAL Richland
rptFeadRadEdd v3.68

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

Thursday, January 31, 2008

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05283.Edd, h:\Reportdb\edd\FeadIV\Rad\38219 Edd

Lab Sample Id:	KD2DF1DX	Sdg/Rept Nbr:	W05283 38219	Collection Date:	12/07/2007 11:20
Client Id:	NA	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	BLK	Received Date:	12/07/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7346615	H-3	-8.83E+01	pCi/L	1.2E+02	U	2.65E+02	100.0		906.0_H3_LSC	5.00E-03	12/18/2007				D
BLK	10028-17-8			1.0E+02						L	16:00				

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

Thursday, January 31, 2008

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05283.Edd, h:\Reportdb\edd\FeadIV\Rad\38219.Edd

Lab Sample Id:	KD2DL1AB	Sdg/Rept Nbr:	W05283	38219	Collection Date: 12/10/2007 11:53
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BLK		Received Date: 12/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7346616	Se-79	1.94E+00	pCi/L	9.3E+00	U	1.13E+01	79.2		SE79_SEP_IE	2.0001E-01	01/12/2008				D
BLK	15758-45-9			4.7E+00						L	09:11				

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

Thursday, January 31, 2008

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05283.Edd. h:\Reportdb\edd\FeadIV\Rad\38219 Edd

Lab Sample Id:	KD2DN2AB	Sdg/Rept Nbr:	W05283 38219	Collection Date:	12/06/2007 13:16
Client Id:	NA	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	BLK	Received Date:	12/07/2007

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

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
8015172	TC-99	5.91E+00	pCi/L	6.0E+00	U	9.58E+00	100.0		TC99_ETVDSK	1.2501E-01	01/19/2008				D
BLK	14133-76-7			4.2E+00						L	06:07				

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

Thursday, January 31, 2008

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05283.Edd, h:\Reportdb\edd\FeadIV\Rad\38219.Edd

Lab Sample Id:	KF7C91AB	Sdg/Rept Nbr:	W05283	38219	Collection Date: 12/06/2007 11:14
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BLK		Received Date: 12/07/2007

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
8028306	I-129L	1.11E-02	pCi/L	1.1E-01	U	2.07E-01	97.3		I129LL_SEP_L	3.9813E+00	01/30/2008				D
BLK	15046-84-1			1.1E-01						L	18:28				

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 31, 2008

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05283.Edd, h:\Reportdb\edd\FeadIV\Rad\38219.Edd

Lab Sample Id:	KD2A21CS	Sdg/Rept Nbr:	W05283	38219	Collection Date: 12/10/2007 11:53
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BS		Received Date: 12/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7346603	U-234	9.45E+00	pCi/L	1.9E+00		1.66E-01	94.6	8.65E+00	UISO_PLATE_	2.00E-01	12/23/2007			75	D
BS	13966-29-5			1.1E+00				109.2		L	13:24			125	
7346603	U-235	3.13E-01	pCi/L	2.2E-01		1.66E-01	94.6	3.95E-01	UISO_PLATE_	2.00E-01	12/23/2007			75	D
BS	15117-96-1			2.1E-01				79.2		L	13:24			125	
7346603	U-238	8.89E+00	pCi/L	1.8E+00		1.66E-01	94.6	9.06E+00	UISO_PLATE_	2.00E-01	12/23/2007			75	D
BS	U-238			1.1E+00				98.2		L	13:24			125	

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 31, 2008

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: [illegible]

Lab Sample Id: KD2A71CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05283 38219
Matrix: WATER WATER
QC Type: BS

Collection Date: 12/10/2007 11:53
Sample On Date:
Received Date: 12/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7346604	C-14	4.22E+01	pCi/L	6.0E+00		8.76E+00	100.0	4.43E+01	C14_LSC	2.00E-01	12/18/2007			70	D
BS	14762-75-5			4.8E+00				95.3		L	19:24			130	

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

Thursday, January 31, 2008

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reports\edd\FeadRV\Qc\W05283.Edd, h:\Reports\edd\FeadRV\Rad\38219.Edd

Lab Sample Id:	KD2C81CS	Sdg/Rept Nbr:	W05283 38219	Collection Date:	12/10/2007 14:03
Client Id:	NA	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	BS	Received Date:	12/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7346611	BETA	2.29E+01	pCi/L	3.7E+00		2.47E+00	100.0	2.26E+01	9310_ALPHAB	2.001E-01	01/17/2008			70	D
BS	12587-47-2			2.4E+00				101.2		L	18:06			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 31, 2008

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Feadlv\Rad\W05283.Edd, h:\Reportdb\edd\Feadlv\Rad\38219.Edd

Lab Sample Id:	KD2CC1CS	Sdg/Rept Nbr:	W05283	38219	Collection Date: 12/06/2007 11:14
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BS		Received Date: 12/06/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7346605	CO-60	3.82E+01	pCi/L	6.8E+00		3.31E+00		3.74E+01	GAMMALL_GS	2.0002E+00	01/22/2008			75	D
BS	10198-40-0			6.8E+00				102.2		L	18:17			125	
7346605	CS-137	5.38E+01	pCi/L	8.2E+00		3.20E+00		4.96E+01	GAMMALL_GS	2.0002E+00	01/22/2008			70	D
BS	10045-97-3			8.2E+00				108.3		L	18:17			130	
7346605	EU-152	7.94E+01	pCi/L	1.6E+01		9.60E+00		7.59E+01	GAMMALL_GS	2.0002E+00	01/22/2008			70	D
BS	14683-23-9			1.6E+01				104.6		L	18:17			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.

Wednesday, February 06, 2008

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05283.Edd, h:\Reportdb\edd\FeadIV\Rad\38219.Edd

Lab Sample Id:	KD2CJ2CS	Sdg/Rept Nbr:	W05283	38219	Collection Date: 12/07/2007 12:45
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BS		Received Date: 12/07/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8016175	I-129L	8.71E+00	pCi/L	1.1E+00		3.57E-01	100.3	9.64E+00	I129LL_SEP_L	3.9355E+00	01/22/2008			70	D
BS	15046-84-1			1.1E+00				90.4		L	22:12			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 31, 2008

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Report3b\edd\FeadRad\W05283.Edd h:\Report3b\edd\FeadRad\38219.Edd

Lab Sample Id: KD2CP1CS Sdg/Rept Nbr: W05283 38219 Collection Date: 12/10/2007 11:55

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

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

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7346607	SR-90	1.52E+01	pCi/L	2.3E+00		3.85E-01	70.7	1.36E+01	SRISO_SEP_P	1.00E+00	01/12/2008			70	D
BS	10098-97-2			8.3E-01				111.5		L	09:29			130	

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

Thursday, January 31, 2008

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05283.Edd, h:\Reportdb\edd\FeadIV\Rad\38219.Edd

Lab Sample Id:	KD2CX1CS	Sdg/Rept Nbr:	W05283 38219	Collection Date:	12/10/2007 11:55
Client Id:	NA	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	BS	Received Date:	12/10/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7346608	ALPHA	1.72E+01	pCi/L	4.0E+00		6.71E-01	100.0	2.26E+01	9310_ALPHAB	2.003E-01	01/17/2008			70	D
BS	12587-46-1			1.9E+00				76.3		L	21:04			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 31, 2008

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05283.Edd, h:\Reportdb\edd\FeadIV\Rad\38219.Edd

Lab Sample Id:	KD2DF1CS	Sdg/Rept Nbr:	W05283 38219	Collection Date:	12/07/2007 11:20
Client Id:	NA	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	BS	Received Date:	12/07/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7346615	H-3	2.16E+03	pCi/L	2.1E+02		2.59E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	12/18/2007			75	D
BS	10028-17-8			1.7E+02				79.7		L	14:38			125	

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 31, 2008

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Feadr\Rad\W05283.Edd h:\Reportdb\edd\Feadr\Rad\38219.Edd

Lab Sample Id:	KD2DF1EM	Sdg/Rept Nbr:	W05283 38219	Collection Date:	12/07/2007 11:20
Client Id:	NA	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	BS	Received Date:	12/07/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7346615	H-3	2.06E+03	pCi/L	2.1E+02		2.59E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	12/18/2007			75	D
BS	10028-17-8			1.7E+02				75.9		L	17:21			125	

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 31, 2008

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05283.Edd, h:\Reportdb\edd\FeadIV\Rad\38219.Edd

Lab Sample Id:	KD2DN2CS	Sdg/Rept Nbr:	W05283	38219	Collection Date: 12/06/2007 13:16
Client Id:	NA	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	BS		Received Date: 12/07/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8015172	TC-99	5.15E+02	pCi/L	3.6E+01		9.44E+00	100.0	5.42E+02	TC99_ETVDSK	1.2501E-01	01/19/2008			75	D
BS	14133-76-7			1.3E+01				95.0		L	07:09			125	

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

Wednesday, January 31, 2008

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Fead\VRad\W05283 Ldd, h:\Reportdb\edd\Fead\VRad\38219 Bdd

Lab Sample Id:	KF7C91CS	Sdg/Rept Nbr:	W05283 38219	Collection Date:	12/06/2007 11:14
Client Id:	NA	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	BS	Received Date:	12/07/2007

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
8028306	I-129L	1.04E+01	pCi/L	1.3E+00		4.51E-01	97.7	9.64E+00	I129LL_SEP_L	3.9998E+00	01/30/2008			70	D
BS	15046-84-1			1.3E+00				108.2		L	18:29			130	

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

Thursday, January 24, 2008

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: [illegible]

Lab Sample Id:	KDQE62DR	Sdg/Rept Nbr:	W05283	38219	Collection Date: 12/06/2007 13:16
Client Id:	B1R6J9	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%:		QC Type:	DUP		Received Date: 12/07/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W08-011	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
8015172	TC-99	1.60E+01	pCi/L	6.5E+00		9.65E+00	100.0		TC99_ETVDSK	1.25E-01	01/19/2008	30.6	1.3		D
DUP	14133-76-7	2.18E+01		4.5E+00						L	05:04	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 31, 2008

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05283.Edd, h:\Reportdb\edd\FeadIV\Rad\38219.Edd

Lab Sample Id:	KDQFV2ER	Sdg/Rept Nbr:	W05283	38219	Collection Date: 12/06/2007 11:14
Client Id:	B1R372	Matrix:	WATER	WATER	Sample On Date:
Moisture/Solids%*:		QC Type:	DUP		Received Date: 12/07/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-008	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
8028306	I-129L	6.82E-02	pCi/L	1.5E-01	U	2.95E-01	99.2		I129LL_SEP_L	3.8779E+00	01/30/2008	0.0	1.8		D
DUP	15046-84-1	-1.32E-01		1.5E-01						L	18:27	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 31, 2008

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05283.Edd, h:\Reportdb\edd\FeadIV\Rad\38219.Edd

Lab Sample Id: KDT4M1FR
Client Id: B1R262
Moisture/Solids%*:

Sdg/Rept Nbr: W05283 38219
Matrix: WATER WATER
QC Type: DUP

Collection Date: 12/07/2007 11:20
Sample On Date:
Received Date: 12/07/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-005	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
7346615	H-3	5.16E+02	pCi/L	1.4E+02		2.58E+02	100.0		906.0_H3_LSC	5.00E-03	12/18/2007	24.7	1.4		D
DUP	10028-17-8	6.61E+02		1.3E+02						L	20:05	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 31, 2008

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportcbl\edd\Fead\V\Rad\W05283.bdd h:\Reportcbl\edd\Fead\V\Rad\38219.bdd

Lab Sample Id: KD1WM1ER
Client Id: B1R681
Moisture/Solids%*:

Sdg/Rept Nbr: W05283 38219
Matrix: WATER WATER
QC Type: DUP

Collection Date: 12/06/2007 11:14
Sample On Date:
Received Date: 12/06/2007

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
7346605	BE-7	3.58E+00	pCi/L	2.2E+01	U	4.01E+01			GAMMALL_GS	2.00E+00 L	01/22/2008 18:15	136.5 20.0	1. 3		D
DUP	13966-02-4	1.90E+01		2.2E+01											
7346605	CO-60	-5.64E-01	pCi/L	1.4E+00	U	2.43E+00			GAMMALL_GS	2.00E+00 L	01/22/2008 18:15	555.2 20.0	1.8 3		D
DUP	10198-40-0	1.20E+00		1.4E+00											
7346605	CS-134	9.86E-01	pCi/L	1.6E+00	U	3.27E+00			GAMMALL_GS	2.00E+00 L	01/22/2008 18:15	944.9 20.0	1.4 3		D
DUP	13967-70-9	-6.41E-01		1.6E+00											
7346605	CS-137	-1.10E-01	pCi/L	1.6E+00	U	2.85E+00			GAMMALL_GS	2.00E+00 L	01/22/2008 18:15	0.0 20.0	0.5 3		D
DUP	10045-97-3	-7.21E-01		1.6E+00											
7346605	EU-152	-2.26E-01	pCi/L	4.0E+00	U	6.95E+00			GAMMALL_GS	2.00E+00 L	01/22/2008 18:15	0.0 20.0	0.5 3		D
DUP	14683-23-9	-1.64E+00		4.0E+00											
7346605	EU-154	-5.18E+00	pCi/L	5.3E+00	U	8.15E+00			GAMMALL_GS	2.00E+00 L	01/22/2008 18:15	0.0 20.0	0.2 3		D
DUP	15585-10-1	-4.59E+00		5.3E+00											
7346605	EU-155	-1.93E+00	pCi/L	2.9E+00	U	4.89E+00			GAMMALL_GS	2.00E+00 L	01/22/2008 18:15	0.0 20.0	0. 3		D
DUP	14391-16-3	-1.88E+00		2.9E+00											
7346605	K-40	2.21E+01	pCi/L	3.3E+01	U	6.83E+01			GAMMALL_GS	2.00E+00 L	01/22/2008 18:15	3197.9 20.0	1.8 3		D
DUP	13966-00-2	-1.95E+01		3.3E+01											
7346605	RU-106	-2.49E+00	pCi/L	1.5E+01	U	2.67E+01			GAMMALL_GS	2.00E+00 L	01/22/2008 18:15	0.0 20.0	0.5 3		D
DUP	13967-48-1	-8.26E+00		1.5E+01											
7346605	SB-125	-3.46E+00	pCi/L	3.8E+00	U	6.08E+00			GAMMALL_GS	2.00E+00 L	01/22/2008 18:15	0.0 20.0	1.7 3		D
DUP	14234-35-6	1.03E+00		3.8E+00											

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

Thursday, January 31, 2008

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: [illegible]

Lab Sample Id: KDVK01HR Sdg/Rept Nbr: W05283 38219 Collection Date: 12/10/2007 11:53

Client Id: B1R2N9 Matrix: WATER WATER Sample On Date:

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

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
108-007	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
7346603	U-234	1.14E+01	pCi/L	2.2E+00		1.62E-01	95.3		UISO_PLATE_	2.0002E-01	12/23/2007	23.6	1.9		D
DUP	13966-29-5	1.45E+01		1.2E+00						L	13:24	20.0	3		
7346603	U-235	6.08E-01	pCi/L	3.0E-01		1.74E-01	95.3		UISO_PLATE_	2.0002E-01	12/23/2007	29.3	0.7		D
DUP	15117-96-1	4.53E-01		2.8E-01						L	13:24	20.0	3		
7346603	U-238	1.26E+01	pCi/L	2.4E+00		1.62E-01	95.3		UISO_PLATE_	2.0002E-01	12/23/2007	3.2	0.2		D
DUP	U-238	1.30E+01		1.3E+00						L	13:24	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 31, 2008

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05283.Edd, h:\Reportdb\edd\FeadIV\Rad\38219.Edd

Lab Sample Id:	KDVK01JR	Sdg/Rept Nbr:	W05283 38219	Collection Date:	12/10/2007 11:53
Client Id:	B1R2N9	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	DUP	Received Date:	12/10/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-007	MW6-SBB-A19981								DU	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
7346604	C-14	-2.37E+00	pCi/L	4.3E+00	U	8.76E+00	100.0		C14_LSC	2.00E-01	12/18/2007	0.0	0.5		D
DUP	14762-75-5	-3.96E+00		3.5E+00						L	21:32	20.0	3		

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

Thursday, January 31, 2008

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Fead!V\Rad\W05283.Edd, h:\Reportdb\edd\Fead!V\Rad\38219.Edd

Lab Sample Id:	KDVK01KR	Sdg/Rept Nbr:	W05283 38219	Collection Date:	12/10/2007 11:53
Client Id:	B1R2N9	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	DUP	Received Date:	12/10/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-007	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
7346616	Se-79	5.69E+00	pCi/L	8.6E+00	U	1.01E+01	89.1		SE79_SEP_IE	2.0002E-01	01/12/2008	17.0	0.1		D
DUP	15758-45-9	4.80E+00		4.3E+00						L	08:18	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 31, 2008

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edo\FeadIV\Rad\W05283.Edd, h:\Reportdb\edo\FeadIV\Rad\38219.Edd

Lab Sample Id:	KDVK11FR	Sdg/Rept Nbr:	W05283 38219	Collection Date:	12/10/2007 14:03
Client Id:	B1RHM2	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	DUP	Received Date:	12/10/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W08-012	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
7346611	BETA	2.29E+01	pCi/L	3.9E+00		2.77E+00	100.0		9310_ALPHAB	2.00E-01	01/17/2008	14.3	1.1		D
DUP	12587-47-2	1.99E+01		2.5E+00						L	16:12	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 31, 2008

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05283.Edd, h:\Reportdb\edd\FeadIV\Rad\38219.Edd

Lab Sample Id:	KDVKW1GR	Sdg/Rept Nbr:	W05283 38219	Collection Date:	12/10/2007 11:55
Client Id:	B1RHR5	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	DUP	Received Date:	12/10/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W08-012	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
7346607	SR-90	1.76E+00	pCi/L	5.1E-01		5.61E-01	71.9		SRISO_SEP_P	1.00E+00	01/12/2008	77.8	2.7		D
DUP	10098-97-2	7.73E-01		3.9E-01						L	09:28	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 31, 2008

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Report4b\edd\FeadIV\Rad\W05283.Edd, h:\Report4b\edd\FeadIV\Rad\38219.Edd

Lab Sample Id:	KDVKW1HR	Sdg/Rept Nbr:	W05283 38219	Collection Date:	12/10/2007 11:55
Client Id:	B1RHR5	Matrix:	WATER WATER	Sample On Date:	
Moisture/Solids%*:		QC Type:	DUP	Received Date:	12/10/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W08-012	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
7346608	ALPHA	1.44E+00	pCi/L	1.1E+00	U	1.57E+00	100.0		9310_ALPHAB	1.251E-01	01/17/2008	66.7	0.9		D
DUP	12587-46-1	7.20E-01		1.0E+00						L	21:04	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 31, 2008

TAL Richland Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05283.Edd, h:\Reportdb\edd\FeadIV\Rad\38219.Edd

Lab Sample Id: KDQE62CW
Client Id: B1R6J9
Moisture/Solids%*:

Sdg/Rept Nbr: W05283 38219
Matrix: WATER WATER
QC Type: MS

Collection Date: 12/06/2007 13:16
Sample On Date:
Received Date: 12/07/2007

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
8015172	TC-99	3.45E+03	pCi/L	2.2E+02		9.52E+00	100.0	3.61E+03	TC99_ETVDSK	1.2501E-01	01/19/2008			60	D
MS	14133-76-7			3.2E+01				95.5		L	04:01			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.

RQC050

TestAmerica Laboratories, Inc.
WET CHEM BATCHSHEET

Run Date: 12/18/07
Time: 8:28:53

TestAmerica Richland

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: IZ COLIFORM BY METHOD 9223
QC BATCH #: 7346619
PREP DATE: 12/12/07
COMP DATE: 12/12/07
USER: RICEL

INITIALS:
PREP _____
ANAL _____

DATA ENTRY:
INITIALS _____
DATE _____

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:	
KDVKW-1-AA	J-7L100244-001	XX I 88 IZ 5I	E	12/11/07	B1RHR5	<1
KDVKW-1-AJ	J-7L100244-001-X	XX I 88 IZ 5I	E		B1RHR5 DUP	<1
KD2D0-1-AA	J-7L120000-619-B	XX I 88 IZ 5I			INTRA-LAB BLANK	<1
KD2D0-1-AC	J-7L120000-619-C	XX I 88 IZ 5I			INTRA-LAB CHECK	10.9

Control Limits

(0-0)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TA Richland
Hexavalent Chromium - Water

Analyst:	J. Peterson	Calibration Curve Information				SOP Information		BATCH #	7346618
Start Date:	12/7/2007		Amount	Conc.(mg/L)	ABS.	RICH-WC-5003		SDG #	W05283
Start Time:	15:45	Blank	0.000	0.000	0.000	Revision 7		Matrix	Water
End Date:	12/7/2007	Std. 1	0.100	0.050	0.099				
End Time	16:30	Std. 2	0.500	0.250	0.482			Instrument Information	
		Std. 3	0.750	0.375	0.711	MDL (mg/L)	0.002	Instrument:	Hach DR2010
Analyst Signature:		Std. 4	1.500	0.750	1.418			Wavelength:	540
		Std 5	2.000	1.000	1.870			R Squared	0.99992
Date:	12/14/07	Standard Volume (mL):			100.000			Slope:	1.87113
		Date of Curve:			12/7/2007			Intercept:	0.00708

	Calibration Information:	ICV Information:		LCS Information:		Matrix Spike Information:	
Dilution ID #	Cr-07-0169	Cr-07-0170		Cr-07-0169		Cr-07-0169	
Prep Date:	12/07/07	12/07/07		12/07/07		12/07/07	
Concentration (mg/L)	50	50		50		50	
Expiration Date:	12/08/07	12/08/07		12/08/07		12/08/07	
Pipettor(s)	70,190	190		190		190	
Volume Used (Expected Value		1.000	0.50000	1.00	0.50000	0.50	0.26316

Expected values are only amounts added in mg and not final concentrations

Sample ID	Client ID	Type	Sample Volume (mL)	Sample ABS.	Blank ABS.	Corrected ABS.	Dilution Factor	Curve Conc. (mg/L)	Final Conc. (mg/L)	% Rec.
n/a	n/a	ICV	100.000	0.939	0.000	0.939	1	0.4980	0.498	99.61%
n/a	n/a	ICB	100.000	0.000	0.000	0.000	1	<MDL	<MDL	
KD2DV-1AA	n/a	Prep Blank	100.000	0.000		0.000	1	<MDL	<MDL	
KD2DV-1AC	n/a	LCS	100.000	0.889		0.889	1	0.4713	0.471	94.27%
KDT4M-1AA	B1R262	Sample	100.000	0.015		0.015	1	0.0042	0.004	
KDT4M-1AC-S	B1R262-MS	MS	100.000	0.490		0.490	1	0.2581	0.258 4	96.47%
KDT4M-1AD	B1R262-MSD	MSD	100.000	0.460		0.460	1	0.2421	~~0.242~~ 0.238	90.37%
KDT4M-1AE-X	B1R262-DUP	Duplicate	100.000	0.022		0.022	1	0.0080	0.008	
KDT4T-1AA	B1R291	Sample	100.000	0.058		0.058	1	0.0272	0.027	
			100.000				1			
			100.000				1			
n/a	n/a	CCV	100.000	0.938		0.938	1	0.4975	0.498	99.50%
n/a	n/a	CCB	100.000	-0.003		-0.003	1	<MDL	<MDL	
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			

SKS 1/31/08

SKS 1/31/08

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

12/24/2007 9:27:18 AM

Lot No., Due Date: J7L100245; 01/24/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7346603; RUISO Uiso by ALP

SDG, Matrix: W05283; WATER

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

6.0 Comments on any No response:

First Level Review [signature] Date 12/24/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7346603

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: 12/24/07

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

1/18/2008 2:31:54 PM

Lot No., Due Date: J7L100171,J7L100165,J7L100244; 01/24/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7346608; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05283; 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 [signature] Date 1-18-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7346608

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: 1/21/08

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

1/18/2008 11:47:52 AM

Lot No., Due Date: J7L100171,J7L100165,J7L100244; 01/24/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7346611; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05283; WATER

1.0 COC

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

2.0 QC Batch

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

3.0 QC & Samples

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

4.0 Raw Data

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

5.0 Other

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

6.0 Comments on any No response:

First Level Review [signature] Date 1-18-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7346611

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: 1/21/08

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

1/15/2008 12:11:12 PM

Lot No., Due Date: J7L100245,J7L100244; 01/24/2008
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 7346607; RSR85907 Sr-85/90 by GPC-7
SDG, Matrix: W05283; 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 [signature] Date 1-15-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7346607

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

TestAmerica

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

1/25/2008 2:45:33 PM

Lot No., Due Date: J7L100165,J7L100245,J7L100244; 01/24/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7346605; RGAMMA Gamma by GER

SDG, Matrix: W05283; WATER

1.0 COC

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

2.0 QC Batch

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

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

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

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

3.0 QC & Samples

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

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

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

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

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

4.0 Raw Data

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

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

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

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

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

5.0 Other

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

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

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

5.4 Was transcription checked? Yes ✓ No N/A

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

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

6.0 Comments on any No response:

First Level Review [signature] Date 1/25/08

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7346605

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: [signature] Date: 1/31/08

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

1/31/2008 12:04:18 PM

Lot No., Due Date: J7L070398,J7L070402,J7L100245; 01/24/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8016175; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05283; WATER

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

6.0 Comments on any No response:
NCM 10-11778

First Level Review Lisa Autonson Date 1/31/08

TestAmerica

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

1/31/2008 11:31:22 AM

Lot No., Due Date: J7L070402; 01/24/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8028306; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05283; WATER

1.0 COC

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

2.0 QC Batch

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

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

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

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

3.0 QC & Samples

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

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

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

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

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

4.0 Raw Data

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

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

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

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

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

5.0 Other

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

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

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

5.4 Was transcription checked? Yes ✓ No N/A

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

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

6.0 Comments on any No response:

NCM 10-11778

First Level Review [signature] Date 1/31/08

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8016175/8028304

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: 1/31/08

Clouseau
Nonconformance Memo

TestAmerica

NCM #:	10-11778		
NCM Initiated By:	Lisa Antonson	Classification:	**Deficiency**
Date Opened:	01/31/2008	Status:	**QAREVIEW**
Date Closed:		Production Area:	Environmental - Sep
		Tests:	None
		Lot #'s (Sample #'s):	,
		QC Batches:	None.,
Nonconformance:	Other (describe in detail)		
Subcategory:	Other (explanation required)		

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	01/31/2008	The original batch of this I129 7346606 had several samples that were contaminated by a popping sample. The samples that were on the hotplate with the popping sample were rerun and added to the original samples that were not contaminated. Sample KDQFM has a failed tracer yield. There was no sample volume left to rerun, this sample is failed. The rerun batch 8016175 didn't have a dup in it. Another sample was selected for the dup and run in 8028306.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	01/31/2008	The technician will take care in the future to check samples on the hotplate more often to avoid popping.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

12/31/2007 11:28:05 AM

Lot No., Due Date: J7L100245; 01/24/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7346604; RC14 C-14 by LSC

SDG, Matrix: W05283; WATER

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

6.0 Comments on any No response:

First Level Review [signature] Date 12/31/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7346604

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

1/30/2008 12:14:37 PM

Lot No., Due Date: J7L070403; 01/24/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8015172; RTC99 Tc-99 by LSC

SDG, Matrix: W05283; WATER

1.0 COC

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

2.0 QC Batch

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

3.0 QC & Samples

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

4.0 Raw Data

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

5.0 Other

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

6.0 Comments on any No response:

The sample and duplicate are less than five times the RDL and show less than one RDL difference.

First Level Review [signature] Date 1-30-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 801517Z

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: 1/31/08

/5

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RE-COUNT REQUEST

DUE DATE 11/24/08

CUSTOMER PGW

ANALAYSIS TC99

MATRIX water

LOT NUMBER J7L070403

SAMPLE DELIVERY GROUP

OLD BATCH NUMBER 7344617

NEW BATCH NUMBER 8019172

LAB SAMPLE ID	CLIENT ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1) All		TSE- Shake well +
2)		recount.
3)		
4)		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		
13)		
14)		
15)		
16)		
17)		
18)		
19)		
20)		

RC-126, 12/07, Rev 5

SEVERN STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

12/31/2007 11:52:10 AM

Lot No., Due Date:	J7L100171; 01/24/2008
Client, Site:	384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test:	7346615; RTRITIUM H-3 by LSC
SDG, Matrix:	W05283; WATER

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

6.0 Comments on any No response:

First Level Review [signature] Date 12/31/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7346615

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 [illegible] Date: 12/31/07

TestAmerica

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

1/17/2008 10:59:42 AM

Lot No., Due Date: J7L100245; 01/24/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7346616; RSE79 Se-79 by LSC

SDG, Matrix: W05283; WATER

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

6.0 Comments on any No response:

First Level Review [signature] Date 1-17-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 73466116

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: 1/21/08

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

1/18/2008 12:03:41 PM

Lot No., Due Date: J7L100244; 01/24/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7346619;

SDG, Matrix: W05283; WATER

1.0 COC

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

2.0 QC Batch

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

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

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

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

3.0 QC & Samples

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

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

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

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

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

4.0 Raw Data

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

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

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

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

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

5.0 Other

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

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

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

5.4 Was transcription checked? Yes ✓ No N/A

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

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

6.0 Comments on any No response:

First Level Review [signature] Date 1/18/08

1/31/08

SEVERN TRENT STL

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): **7346618**

Lab Sample Numbers or W05283

Method/Test/Parameter: **Cr+6 in Water / RICH-WC-5003**

Review Item	Yes (✓)	No (✓)	N/A (✓)	2nd Level Review (✓)
A. Initial Calibration				
1. Performed at required frequency with required number of levels?	✓			✓
2. Correlation coefficient within QC limits?	✓			✓
3. Initial calibration verification (ICV) analyzed immediately after calibration and results within QC limits?	✓			✓
4. Initial calibration blank (ICB) analyzed immediately after ICV and concentrations of all parameters ≤ reporting limit?	✓			✓
B. Continuing Calibration	✓			
1. CCV analyzed at required frequency and all parameters within QC limits?				✓
2. CCB analyzed at required frequency and all results ≤ reporting limit?	✓			✓
C. Sample Analysis				
1. Were any samples with concentrations above the linear range for any parameter diluted and reanalyzed?	✓			✓
2. Were all sample holding times met?	✓			✓
D. QC Samples				
1. All results for the preparation blank below limits?	✓			✓
2. MS or MS/MSD recoveries within QC limits and %RPD (for MSD) acceptable?	✓			✓
3. LCS percent recovery within QC limits and %RPD (for LCSD) acceptable?	✓			✓
4. Analytical spikes within QC limits where applicable?			✓	✓
5. ICP only: One serial dilution performed per SDG?			✓	✓
6. ICP only: CRDL standard (CRI or CRA) analyzed at required frequency?			✓	✓
7. ICP only: Interference check samples (ICSA, ICSAB) and HICAL analyzed at the required frequencies and within QC limits?			✓	✓

Review Item	Yes (✓)	No (✓)	N/A (✓)	2nd Level Review (✓)
E. Other	✓			
1. Are all nonconformances included and noted?				✓
2. Is the correct date and time of analysis shown?	✓			✓
3. Did the analyst sign and date the front page of the analytical run?	✓			✓
4. Correct methodology used?	✓			✓
5. Transcriptions checked?	✓			✓
6. Calculations checked at minimum frequency?	✓			✓
7. Units checked?	✓			✓

Comments on any "No" response:

Analyst: [signature] Date: 12/14//2007

Second-Level Review: [signature] Date: 1/31/08

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7K070398 W05283 DUE 1-21-08 KDQEC

C.O.C. # I08-007-29

Page 1 of 1

Collector: Roy Sickle	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I08-007	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2UPL NOVEMBER 2007	HNF-N-506-11	Ice Chest No.: SML 562 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
B1R2R8		W	12/7/07	1245	1x20-mL P	Activity Scan	None
B1R2R8		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

12/7/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Roy Sickle			1430 DEC 07 2007		W LANE	TAL-R	12-7-07 1430
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 RICHLAND AMENDED 78

estAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

DUE 1-21-08

Date/Time Received: 12-7-07 1430

Client: PGW SDG#: W05283 NA[ ] SAF#: I08-007 NA [ ]

Work Order Number: J7L070398 Chain of Custody # I08-007-29

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: 12-7-07

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

J7L070402 W05283 Due 01-21-07

C.O.C. # I08-008-57

Page 1 of 1

Collector Fluor Hanford K. B. HULSE	Contact/Requester Steve trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. I08-008	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 22P1 NOVEMBER 2007	HNF-N 506-11	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

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
B1R332		W	12/06/07	1426	1x20-mL P	Activity Scan	None
B1R332		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

KDQFA

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K. B. HULSE			1430 DEC 06 2007		LJ LANE	TAL-R	1430 DEC 06 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

FINAL SAMPLE DISPOSITION

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

TESTAMERICA RICHLAND AMENDED 08

TESTAMERICA HIGHLANDS AMENDED

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7L070402 W05283 Due 01.21.08

C.O.C. # I08-008-121

Page 1 of 1

Collector: Fluor Hanford K. B. HULSE	Contact/Requester: Steve trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I08-008	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 222P1, NOVEMBER 2007	HNF-W-506-11 PO. 42234 DRW 12/6/07	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
B1R373		W	12/6/07	11:14	1x20-mL P	Activity Scan	None
B1R373		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						KDQFJ	

Relinquished By	Date/Time	Received By	Date/Time
Fluor Hanford K. B. HULSE Print / Sign	DEC 06 2007 1430 DRW 12/6/07	LJ LANE TAL-R Print / Sign	DEC 06 2007 1430 DRW 12/6/07
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

J7L070402 W05283 due 07.21.08

C.O.C. # I08-008-32

Page 1 of 1

Collector: Fluor Hanford K. B. HULSE	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: 122P1 NOVEMBER 2007	HNF-W-506-11 pg. ~~42~~ 34	Ice Chest No.: G 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
** **

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
B1R317		W	12/6/07	1012	1x20-mL P	Activity Scan	None
B1R317		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						KDQFM	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K. B. HULSE			1430 DEC ~~06~~ 08 2007		WLANE	TAL-R	1430 DEC ~~06~~ 08 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TESTAMERICA SAMPLE SHIPPING AMENDED 82

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7L070402 W05283 Due 07.21.08

C.O.C. # I08-008-56

Page 1 of 1

Collector	Contact/Requester: Steve trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: 108-008 Fluor Hanford K. B. HULSE	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2ZPL NOVEMBER 2007	HWF-N-506-11	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

** **

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
B1R331		W	12/6/07	1426	1x20-mL P	Activity Scan	None
B1R331		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						KDQFQ	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K. B. HULSE			1430 DEC 06 2007		LW LANE	TAL-R	1430 DEC 06 2007 1467
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

TESTAMERICA RICHLAND AMENDED

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7L070402 W05283 Due 07-21-08

C.O.C. # I08-008-120

Page 1 of 1

Collector: Fluor Hanford K. B. HULSE	Contact/Requester: Steve trent	Telephone No.: 509-373-5869 MSIN FAX
AF No.: I08-008	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2ZP1, NOVEMBER 2007	HNF-N-506-11 Due 12/11/07 Pg 34	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
B1R372		W	12/6/07	1114	1x20-mL P	Activity Scan	None
B1R372		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						KDQFV	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K. B. HULSE			DEC 06 2007 1430	LJLANE	TAL-R		DEC 06 2007 1430
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 RICHLAND AMENDED

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Sample Check-in List

Date/Time Received: 12·07·07 1430

Client: POW SDG #: W05283 NA[ ] SAF #: I08-008 NA [ ]

Work Order Number: JTL070402 Chain of Custody # I08-008-57, 121, 32, 56, 120

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: 5
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ____ Custody Seals
   - ____ Hazard Lables
   - 1 Appropriate Sample Lables
9. Samples are:
   - 1 In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [✓] No [✓]
13. Description of anomalies (include sample numbers): Sampling date?

Sample Custodian: LL L. Smith Date: 12·07·07

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

J7L070403 W05283 DUE 1-21-08 KDQE6

C.O.C. # W08-011-2

Page 1 of 1

Collector: Josh Herrick, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
CAF No.: W08-011	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, NOVEMBER 2007	HNF-N-506-10	Ice Chest No.: EKE-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
B1R6J9		W	12-6-07	1316	1x20-mL P	Activity Scan	None
B1R6J9		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Josh Herrick, Fluor Hanford			DEC 06 2007 1430		L J LANE	TAL-R	DEC 06 2007 1430
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 RICHLAND AMENDED

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Sample Check-in List

DUE 1-21-08

Date/Time Received: 12-7-07 1430

Client: PGW SDG#: W05283 NA[ ] SAF#: W08-011 NA [ ]

Work Order Number: J7L070403 Chain of Custody # W08-011-2

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: 12-7-07

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

J7L100165 W05283 DUE 1-21-08 KDTWM

C.O.C. # W08-011-414

Page 1 of 1

Collector	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-011 Fluor Hanford K. B. HULSE	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: CRCRA NOVEMBER 2007	1+WF-N-506-11 pg. 42 34 DRW 12/6/07	Ice Chest No. Temp.
Shipped To (Lab): TestAmerica Incorporated Richland	Method of Shipment: Govt Vehicle	Bill of Lading/Air Bill No.
Protocol: CRCRA	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
B1R681		W	12/6/07	1114	1x20-mL P	Activity Scan	None
B1R681		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1R681		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
Fluor Hanford K. B. HULSE			DRW 12/6/07 1430 DEC 06 2007		L W LANE	TAL-R	DRW 12/06/07 1430 DEC 06 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TESTAMERICA CHAIN OF CUSTODY AMENDED

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JTL100165 W05283 DUE 1-21-08 KDTWV

C.O.C. # W08-011-415

Page 1 of 1

Collector: Fluor Hanford ~~K. B. HULSE~~	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: SAW08-011	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, NOVEMBER 2007	HNF-W-506-11	Ice Chest No. 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.

TESTAMERICA RICHLAND

AMENDED

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1R682		W	12/6/07	1114	1x20-mL P	Activity Scan	None
B1R682		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1R682		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

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Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford K. B. HULSE			DEC 06 2007 1430		LJ LANE	TALR	DEC 06 2007 1430
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

DUE 1-21-08

Date/Time Received: 12-6-07 1430

Client: PGW SDG#: W05283 NA[ ] SAF#: W08-011 NA [ ]

Work Order Number: J7L100165 Chain of Custody # W08-011-414,-415

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: 12-6-07

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

J7L100171 W05283 DUE 1-21-08 KDT3E

C.O.C. # I08-005-389

Page 1 of 1

Collector: Fluor Hanford D. R. BREWINGTON	Contact/Requester: Steve trent	Telephone No.: 509-373-5869	MSIN / FAX
AF No.: 108-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code	
Project Title: H100HR3IAM(1/2) NOVEMBER 2007	Logbook: HNF-N-506-10	Ice Chest No.: ERC-1	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
B1R267		W	12/7/07	1635	1x20-mL P	Activity Scan	None
B1R267		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2

R. Wall 12/7/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON	D.R.		DEC 07 2007 1430		LJ LANE	TAL-R	DEC 07 2007 1430
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 RICHLAND — AMENDED

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7L100171 W05283 DUE 1-21-08 KDT3Q

C.O.C. # I08-005-388

Page 1 of 1

Collector: Fluor Hanford D. R. BREWINGTON	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: I100HR3IAM(1/2) NOVEMBER 2007	Logbook: HNF-N-506-10	Ice Chest No.: ERC-1 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
B1R266		W	12/7/07	1035	1x20-mL P	Activity Scan	None
B1R266		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
Fluor Hanford D. R. BREWINGTON	D. R. Brewington		DEC 07 2007 1430		W LANE	TAL-R	DEC 07 2007 1430
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

TESTAMENTO ARTHUR AMENDED 92

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7L100171 W05283 DUE 1-21-08 KDT36

C.O.C. # I08-005-400

Page 1 of 1

Collector: Fluor Hanford D. R. BREWINGTON	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	Logbook: HNF-N-506-10	Ice Chest No.: ERC-1 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
B1R278		W	12/7/07	0945	1x20-mL P	Activity Scan	None
B1R278		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2

K. Wall 12/7/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON	D.R. Brewington		DEC 07 2007 1430		LV LANE	TAL-R	DEC 07 2007 1430
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

TESTAMERICA RICHLAND AMENDED

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7L100171 W05283 DUE 1-21-08 KDT4E

C.O.C. # 108-005-407

Page 1 of 1

Collector: D.R. BREWINGTON	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	Logbook: HNF N-506-10	Ice Chest No.: ERC-1 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
B1R282		W	12/7/07	0730	1x20-mL P	Activity Scan	None
B1R282		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2

L. Wall 12/7/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D.R. BREWINGTON			DEC 07 2007 1430		L. LANE	TAL-R	DEC 07 2007 1430
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 RICHLAND AMENDED

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7L100171 W05283 DUE 1-21-08 KDT4H

C.O.C. # I08-005-406

Page 1 of 1

Collector: Fluor Hanford D. R. BREWINGTON	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	Logbook: HNF-N-506-10	Ice Chest No.: ERC-1 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
B1R281		W	12/7/07	1252	1x20-mL P	Activity Scan	None
B1R281		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2

D. Wood 12/7/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON			DEC 07 2007 1430		LUANE TALK		DEC 07 2007 1430
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

TESTAMERICA RICHLAND AMENDED 95

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7L100171 W05283 DUE 1-21-08 KDT4M

C.O.C. # I08-005-380

Page 1 of 1

Collector: Fluor Hanford D. R. BREWINGTON	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: HL00HR3JAM(1/2) NOVEMBER 2007	Logbook: HNF-N-506-10	Ice Chest No.: ERC-1	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, L 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
B1R262		W	12/7/07	1120	1x20-mL P	Activity Scan	None
B1R262		W	↓	↓	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	Cool~4C
B1R262		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1R262		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None

J. Wood 12/7/07

Relinquished By	Date/Time	Received By	Date/Time
Print: Fluor Hanford D. R. BREWINGTON Sign: [signature]	DEC 07 2007 1430	Print: R. W. LANE Sign: TAL-R	DEC 07 2007 1430
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

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

TESTAMENTO CARTHLANDT - AMENDED

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FLUOR HANFORD

Fluor Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7L100171 W05283 DUE 1-21-08 KDT4T

C.O.C. # I08-005-414

Page 1 of 1

Collector: D. R. BREWINGTON	Contact/Requester: Steve trent	Telephone No.: 509-373-5869 MSIN FAX
TAF No.: 108-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100HR3IAM(1/2) NOVEMBER 2007	Logbook: HNF-N-506-10	Ice Chest No.: ERC-1 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

TESTAMERICA RICHLAND

AMENDED

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1R291		W	12/7/07	0851	1x20-mL P	Activity Scan	None
B1R291		W	↓	↓	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	Cool~4C
B1R291		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1R291		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None

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D. Wells 12/7/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. R. BREWINGTON	D.R.		DEC 07 2007 1430		L J LANE	TAL-R	DEC 07 2007 1430
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 1-21-08

Date/Time Received: 12-7-07 1430

Client: PGW SDG #: W05283 NA[ ] SAF #: I08-005 NA [ ]

Work Order Number: ~~JL~~ JTL100171 Chain of Custody # I08-005-380,-389,-388,-400, -414,-407,-406

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: 7
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: RJR Date: 12-7-07

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

JTL100244 W05283 Due 01.24.07

C.O.C. # W08-012-33

Page 1 of 1

Collector F. Hall Fluor Hanford Inc	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. W08-012	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title HRCRA DECEMBER 2007	HWF-N 506-11 pg 37	Ice Chest No. SHL 562 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
B1RHR5		W	12/10/07	1155	1x20-mL P	Activity Scan	None
B1RHR5		W			1x500-mL P	9223_COLIFORM: Coliform (1)	Na2S2O3 Cool~4C
B1RHR5		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1RHR5		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1RHR5		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						KDVKW	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F. Hall Fluor Hanford Inc			1545 DEC 10 2007		LILANE TAL-R		1545 DEC 10 2007
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TESTAMERICA FORM ILN AMENDED 9/9

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7L100244 W05283 Due 01/24/07

C.O.C. # W08-012-24

Page 1 of 1

Collector: F. Hall, Fluor Hanford Inc	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-012	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA DECEMBER 2007	HNF-N-506-11 Pg. 37	Ice Chest No.: SHL 562 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
B1RHM2		W	12/10/07	1403	1x20-mL P	Activity Scan	None
B1RHM2		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1RHM2		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1RHM2		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						KDVKI	

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
F. Hall, Fluor Hanford Inc	DEC 10 2007 1545	R.R. LVLANE TAL-RL	DEC 10 2007 1545
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

TESTAMENTO CAPTOLLINUTAMENDED

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7L100244 W05283 Due 01.24.07

C.O.C. # W08-012-27

Page 1 of 1

Collector: F. Hall, Fluor Hanford Inc	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-012	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA DECEMBER 2007	HNF-N-506-11 Pg. 37	Ice Chest No.: SML 562 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
B1RHN3		W	12/10/07	1059	1x20-mL P	Activity Scan	None
B1RHN3		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1RHN3		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1RHN3		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						KDVK2	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F. Hall, Fluor Hanford Inc			DEC 10 2007 1545		LVLANE	TAL-R	DEC 10 2007 1545
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

TESTAMERICA RICHLAND AMENDED

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THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 12·10·07 1545

Client: PGW SDG #: W05283 NA[ ] SAF #: W08·012 NA [ ]

Work Order Number: J7L100244 Chain of Custody # W08·012·24, 27, 33

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: [signature] Date: 12·10·07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary, process as is.

Project Manager _____ Date _____

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7L100245 W05283 DUE 1-24-08 KDYKO

C.O.C. # I08-007-6

Page 1 of 1

Collector: Josh Herrick	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: 108-007	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RUPL NOVEMBER 2007	HNF-N-506 5	Ice Chest No.: SKINS 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
B1R2N9		W	12-10-07	1153	1x20-mL P	Activity Scan	None
B1R2N9		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1R2N9		W			2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1R2N9		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1R2N9		W			2x1000-mL G/P	Selenium-79	HNO3 to pH <2
B1R2N9		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1R2N9		W			1x1000-mL G/P	UISO_PLATE_AEA: List-1 (3)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Josh Herrick			DEC 10 2007 1500		LJ LANE	TAL-R	DEC 10 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

TESTAMENT OF AMENDMENT

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Sample Check-in List

DUE 1-24-08

Date/Time Received: 121007 1500

Client: PGW SDG #: W05283 NA[ ] SAF #: I08-007 NA [ ]

Work Order Number: 17L100245 Chain of Custody # I08-007-6

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: 121007

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

/19/2007 6:28:19 AM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory .
Pacific Northwest National Lab

7Y Uiso PrpRC5016/5086, SepRC5067(5039)
SR Uranium-234,235,238 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 01/24/2008

Sep1 DT/Tm Tech:

Batch: 7346603 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WoodT

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:
KDVK0-1-AG J7L100245-1-SAMP 12/10/2007 11:53		AmtRec: VIAL20,8XLP,3X4LP	200.02g,in #Containers: 12	200.02g	UITC19084 12/12/07,pd 05/05/87,r	200		Scr:	Alpha: 1.96E-03 uCi/Sa	Beta: 1.27E-03 uCi/Sa
KDVK0-1-AH-X J7L100245-1-DUP 12/10/2007 11:53		AmtRec: VIAL20,8XLP,3X4LP	200.02g,in #Containers: 12	200.02g	UITC19085 12/12/07,pd 05/05/87,r			Scr:	Alpha: 1.96E-03 uCi/Sa	Beta: 1.27E-03 uCi/Sa
3 KD2A2-1-AA-B J7L120000-603-BLK 12/10/2007 11:53		AmtRec:	200.00g,in #Containers: 1	200.00g	UITC19086 12/12/07,pd 05/05/87,r			Scr:	Alpha:	Beta:
4 KD2A2-1-AC-C J7L120000-603-LCS 12/10/2007 11:53		AmtRec:	200.00g,in #Containers: 1	200.00g	UISG1550 11/27/07,pd 05/05/87,r			Scr:	Alpha:	Beta:

Comments: pH<2.0 12/19/07 JSV

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

KDVK01AG-SAMP Constituent List:

U-232	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	U-234	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
U-235	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:	U-238	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:

KD2A21AA-BLK:

U-232	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	U-234	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
U-235	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:	U-238	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:

TESTAVERDE RICHLAND AMENDED 1105

Sample Preparation/Analysis

7Y Ulso PrpRC5016/5086, SepRC5067(5039)
SR Uranium-234,235,238 by Alpha Spec
5I CLIENT: HANFORD

Balance Id:1120373922

Pipet #: _____

AnalyDueDate: 01/24/2008

Sep1 DT/Tm Tech:

Batch: 7346603 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WoodT

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:

02A21AC-LCS:
U-232 RDL: pCi/L LCL:20 UCL:105 RPD:20 Uranium RDL: pCi/L LCL:70 UCL:130 RPD:20

DVK01AG-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
02A21AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
02A21AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TESTAMENTAL RICHLAND - AMENDED 106

12/24/2007 9:26:57 AM

ICOC Fraction Transfer/Status Report

ByDate: 12/24/2006, 12/29/2007, Batch: '7346603', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting				Comments
7346603							
AC		CalcC	WoodT	12/19/2007 6:19:09			
SC			wagarr	IsBatched	12/13/2007 8:33:05 AM	ICOC_RADCALC v4.8.29	
SC			WoodT	InPrep	12/19/2007 6:19:09 AM	RICH-RC-5016 Revision 7	
SC			WoodT	Prep1C	12/19/2007 6:28:36 AM	RICH-RC-5016 REVISION 7	
SC			AshworthA	Prep2C	12/21/2007 12:38:37 PM	RICH-RC-5086 REV3	
SC			AshworthA	Sep1C	12/21/2007 12:38:47 PM	RICH-RC-5067 REV8	
SC			AshworthA	Sep2C	12/23/2007 10:33:14 AM	RICH-RC-5039 REV5	
SC			DAWKINSO	InCnt1	12/23/2007 11:49:23 AM	RICH-RD-0008 REVISION 4	
SC			BlackCL	CalcC	12/24/2007 6:49:15 AM	RICH-RD-0008 REVISION 4	
AC			WoodT	12/19/2007 6:28:36			
AC			AshworthA	12/21/2007 12:38:37			
AC			AshworthA	12/21/2007 12:38:47			
AC			AshworthA	12/23/2007 10:33:14			
AC			DAWKINSO	12/23/2007 11:49:23			
AC			BlackCL	12/24/2007 6:49:15			

AC: Accepting Entry; SC: Status Change

STL Richland

Richland,Wa

Page 1

Grp Rec Cnt: 7

ICOCFractions v07.30

11/2008 8:42:31 AM

Sample Preparation/Analysis

Balance Id:1120482733

Pipet #: 245

34868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 01/24/2008 W05283

Sep1 DT/Tm Tech:

Batch: 7346608 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7346605 AWTA, 7346608 AZS7, 7346611 BCS8,

Prep Tech: ,HarrisD | Becky.

TESTAMERICA RICHLAND AMENDED 108

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:
KDTWM-1-AA J7L100165-1-SAMP 12/06/2007 11:14		131.40g,in AmtRec: VIAL20,LP,4LP #Containers: 3		1.5	42.5	100	10D	1955	1/17/08	Scr: Alpha: -5.84E-08 uCi/Sa Beta: 8.01E-07 uCi/Sa
KDTWV-1-AA J7L100165-2-SAMP 12/06/2007 11:14		108.60g,in AmtRec: VIAL20,LP,4LP #Containers: 3			34.4		10E			Scr: Alpha: -3.47E-07 uCi/Sa Beta: 1.50E-06 uCi/Sa
3 KDT3E-1-AA J7L100171-1-SAMP 12/07/2007 10:35		125.20g,in AmtRec: VIAL20,LP #Containers: 2			31.8		10F			Scr: Alpha: 1.54E-04 uCi/Sa Beta: 2.03E-05 uCi/Sa
4 KDT3Q-1-AA J7L100171-2-SAMP 12/07/2007 10:35		131.50g,in AmtRec: VIAL20,LP #Containers: 2			34.2		10F	2155		Scr: Alpha: -5.31E-05 uCi/Sa Beta: 6.34E-05 uCi/Sa
5 KDT36-1-AA J7L100171-3-SAMP 12/07/2007 09:45		156.20g,in AmtRec: VIAL20,LP #Containers: 2			36.3		10E			Scr: Alpha: -7.21E-05 uCi/Sa Beta: 1.28E-04 uCi/Sa
6 KDT4E-1-AA J7L100171-4-SAMP 12/07/2007 07:30		200.30g,in AmtRec: VIAL20,LP #Containers: 2			0.6	50	10D	1801		Scr: Alpha: -8.78E-05 uCi/Sa Beta: 5.26E-05 uCi/Sa
7 KDT4H-1-AA J7L100171-5-SAMP 12/07/2007 12:52		199.90g,in AmtRec: VIAL20,LP #Containers: 2			45.1		10E			Scr: Alpha: 7.84E-05 uCi/Sa Beta: 2.03E-05 uCi/Sa

11/2008 8:42:33 AM

Sample Preparation/Analysis

Balance Id:1120482733

84868, 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: 01/24/2008

Sep1 DT/Tm Tech:

Batch: 7346608 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

REQ Batch, Test: None

Prep Tech: ,HarrisD

TEST AMER RICHLAND - AMENDED TO

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:
9 KDT4M-1-AD J7L100171-6-SAMP 12/07/2007 11:20		161.30g,in AmtRec: VIAL20,500G,2XLP #Containers: 4		1.5	31.1	~~100~~ 50	10F Scr:	1801 Alpha: 6.14E-05 uCi/Sa	1/17/08 DD Beta: 1.86E-04 uCi/Sa	
KDT4T-1-AD J7L100171-7-SAMP 12/07/2007 08:51		185.10g,in AmtRec: VIAL20,500G,2XLP #Containers: 4			31.1	50	10A Scr:	0805 Alpha: 2.16E-04 uCi/Sa	1/18/08 KC Beta: -2.46E-04 uCi/Sa	
10 KDVKW-1-AC J7L100244-1-SAMP 12/10/2007 11:55		125.20g,in AmtRec: 20ML,500ML,4XLP,4LP #Containers: 7			39.3	100	10D Scr:	2155 Alpha: -5.89E-04 uCi/Sa	1/17/08 DD Beta: 2.55E-03 uCi/Sa	
11 KDVKW-1-AH-X J7L100244-1-DUP 12/10/2007 11:55		125.10g,in AmtRec: 20ML,500ML,4XLP,4LP #Containers: 7			39.6		10C Scr:	↓ Alpha: -5.89E-04 uCi/Sa	↓ Beta: 2.55E-03 uCi/Sa	
12 KDVK1-1-AA J7L100244-2-SAMP 12/10/2007 14:03		185.10g,in AmtRec: 20ML,4XLP,4LP #Containers: 6			45.4	50	10B Scr:	0805 Alpha: -4.87E-04 uCi/Sa	1/18/08 KC Beta: 1.88E-03 uCi/Sa	
13 KDVK2-1-AA J7L100244-3-SAMP 12/10/2007 10:59		166.60g,in AmtRec: 20ML,4XLP,4LP #Containers: 6			34.1	50 ~~100~~ OUT 1/11/08	10C Scr:	Alpha: 1.86E-03 uCi/Sa	Beta: -9.60E-04 uCi/Sa	
14 KD2CX-1-AA-B J7L120000-608-BLK 12/10/2007 11:55		200.10g,in AmtRec: #Containers: 1			1.1	100	10B Scr:	2155 Alpha:	1/17/08 DD Beta:	

11/2008 8:42:34 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 01/24/2008

Batch: 7346608 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:
KD2CX-1-AC-C		200.30g,in	ASD4378	1.5	1.0	100	10A	2155	1/17/08 OP	
7L120000-608-LCS			12/11/07,pd							
12/10/2007 11:55		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:

Comments: PHLD.D. Aliquots reduced due to weight screens. DLH 1/11/08

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

KDTWM1AA-SAMP Constituent List:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
KD2CX1AA-BLK:					
ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
KD2CX1AC-LCS:					
Am-241	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

KDTWM1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KD2CX1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KD2CX1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TESTAMERICA RICHLAND AMENDED

1/18/2008 2:31:04 PM

ICOC Fraction Transfer/Status Report

ByDate: 1/18/2007, 1/23/2008, Batch: '7346608', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
7346608							
AC			Rev1C	HarrisD	1/11/2008 8:42:34		
SC				wagarr	IsBatched	12/13/2007 8:33:05 AM	ICOC_RADCALC v4.8.29
SC				HarrisD	Prep1C	1/11/2008 8:42:34 AM	RICH-RC-5014 REVISION 7
SC				BockJ	InPrep2	1/15/2008 11:56:54 AM	RICH-RC-5014 REVISION 7
SC				BockJ	Prep2C	1/17/2008 3:12:14 PM	RICH-RC-5014 REVISION 7
SC				BlackCL	InCnt1	1/17/2008 3:14:41 PM	RICH-RD-0003 REVISION 5
SC				ClarkR	CalcC	1/18/2008 9:34:33 AM	RICH-RD-0003 REVISION 5
SC				nortonj	Rev1C	1/18/2008 2:30:57 PM	RICH-RC-0002 REV 8
AC				BockJ	1/15/2008 11:56:54		
AC				BockJ	1/17/2008 3:12:14 PM		
AC				BlackCL	1/17/2008 3:14:41 PM		
AC				ClarkR	1/18/2008 9:34:33		
AC				nortonj	1/18/2008 2:30:57 PM		

AC: Accepting Entry, SC: Status Change

TAL Richland

Richland Wa

Page 1

Grp Rec Cnt: 6

ICOCFractions v4.8.12

/11/2008 9:29:13 AM

Sample Preparation/Analysis

Balance Id:1120482733

Pipet #: 245

84868, Pacific Northwest National Laboratory

Pacific Northwest National Lab

BC Gross Beta PrpRC5014

S8 Gross Beta by GPC using Sr/Y-90 curve

51 CLIENT: HANFORD

AnalyDueDate: 01/24/2008 W05283

Batch: 7346611 WATER pCi/L

PM, Quote: SA , 57671

SEQ Batch, Test: None

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: .HarrisD | Bock

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 KDTWM-1-AC J7L100165-1-SAMP 12/06/2007 11:14		188.70g,in AmtRec: VIAL20,LP,4LP #Containers: 3		1.5	133.5	100	27A	1657	1/17/08	Scr: Alpha: -5.84E-08 uCi/Sa Beta: 8.01E-07 uCi/Sa
2 KDTWV-1-AC J7L100165-2-SAMP 12/06/2007 11:14		161.20g,in AmtRec: VIAL20,LP,4LP #Containers: 3			110.7		27B			Scr: Alpha: -3.47E-07 uCi/Sa Beta: 1.50E-06 uCi/Sa
3 KDT3E-1-AC J7L100171-1-SAMP 12/07/2007 10:35		200.40g,in AmtRec: VIAL20,LP #Containers: 2			85.1		27C			Scr: Alpha: 1.54E-04 uCi/Sa Beta: 2.03E-05 uCi/Sa
4 KDT3Q-1-AC J7L100171-2-SAMP 12/07/2007 10:35		200.30g,in AmtRec: VIAL20,LP #Containers: 2			86.4		27D			Scr: Alpha: -5.31E-05 uCi/Sa Beta: 6.34E-05 uCi/Sa
5 KDT36-1-AC J7L100171-3-SAMP 12/07/2007 09:45		200.00g,in AmtRec: VIAL20,LP #Containers: 2			76.0		28A	1720		Scr: Alpha: -7.21E-05 uCi/Sa Beta: 1.28E-04 uCi/Sa
6 KDT4E-1-AC J7L100171-4-SAMP 12/07/2007 07:30		200.40g,in AmtRec: VIAL20,LP #Containers: 2			0.4		28B			Scr: Alpha: -8.78E-05 uCi/Sa Beta: 5.26E-05 uCi/Sa
7 KDT4H-1-AC J7L100171-5-SAMP 12/07/2007 12:52		200.30g,in AmtRec: VIAL20,LP #Containers: 2			78.1		28C			Scr: Alpha: 7.84E-05 uCi/Sa Beta: 2.03E-05 uCi/Sa

TESTAMERICA RICHLAND - AMENDED

112

11/2008 9:29:15 AM

Sample Preparation/Analysis

Balance Id:1120482733

34868, 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: 01/24/2008

Sep1 DT/Tm Tech:

Batch: 7346611 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

TESTAMERICA RICHLAND AMENDED

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 KDT4M-1-AE J7L100171-6-SAMP 12/07/2007 11:20		200.10g,in AmtRec: VIAL20,500G,2XLP #Containers: 4		1.5	71.1	100	28D Scr:	1607 Alpha: 6.14E-05 uCi/Sa	1/17/08 S Beta: 1.86E-04 uCi/Sa	
KDT4T-1-AE J7L100171-7-SAMP 12/07/2007 08:51		200.20g,in AmtRec: VIAL20,500G,2XLP #Containers: 4			78.0		31A Scr:	Alpha: 2.16E-04 uCi/Sa	Beta: -2.46E-04 uCi/Sa	
10 KDVKW-1-AD J7L100244-1-SAMP 12/10/2007 11:55		200.40g,in AmtRec: 20ML,500ML,4XLP,4LP #Containers: 7			95.7		31B Scr:	Alpha: -5.89E-04 uCi/Sa	Beta: 2.55E-03 uCi/Sa	
11 KDVK1-1-AC J7L100244-2-SAMP 12/10/2007 14:03		200.20g,in AmtRec: 20ML,4XLP,4LP #Containers: 6			79.5		31C Scr:	Alpha: -4.87E-04 uCi/Sa	Beta: 1.88E-03 uCi/Sa	
12 KDVK1-1-AF-X J7L100244-2-DUP 12/10/2007 14:03		200.00g,in AmtRec: 20ML,4XLP,4LP #Containers: 6			78.5		31D Scr:	Alpha: -4.87E-04 uCi/Sa	Beta: 1.88E-03 uCi/Sa	
13 KDVK2-1-AC J7L100244-3-SAMP 12/10/2007 10:59		200.00g,in AmtRec: 20ML,4XLP,4LP #Containers: 6			61.3		27A Scr:	1856 Alpha: 1.86E-03 uCi/Sa	1/17/08 SD Beta: -9.60E-04 uCi/Sa	
14 KD2C8-1-AA-B J7L120000-611-BLK 12/10/2007 14:03		200.40g,in AmtRec: #Containers: 1			Ø		27B Scr:	Alpha:	Beta:	

1/11/2008 9:29:16 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD

AnalyDueDate: 01/24/2008

Batch: 7346611 pCi/L

GEO 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:
KD2C8-1-AC-C		200.10g,in	BESB3197	1.5	0.2	100	27D	1856	1/17/08	
J7L120000-611-LCS			11/27/07,pd 08/08/06							
12/10/2007 14:03		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:

Comments: PH<2.0. Aliquot reduced due to weight screens. DLT 1/11/08

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

KDTWM1AC-SAMP Constituent List:
BETA RDL:4 pCi/L LCL: UCL: RPD:
KD2C81AA-BLK:
BETA RDL:4 pCi/L LCL: UCL: RPD:
KD2C81AC-LCS:
Sr-90 RDL: pCi/L LCL:70 UCL:130 RPD:20

KDTWM1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KD2C81AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KD2C81AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TESTAMERICA RICHLAND AMENDED 1114

1/18/2008 11:47:09 AM

ICOC Fraction Transfer/Status Report

ByDate: 1/18/2007, 1/23/2008, Batch: '7346611', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
7346611							
AC			Rev1C	HarrisD	1/11/2008 9:29:17		
SC				wagarr	IsBatched	12/13/2007 8:33:05 AM	ICOC_RADCALC v4.8.29
SC				HarrisD	Prep1C	1/11/2008 9:29:17 AM	RICH-RC-5014 REVISION 7
SC				BockJ	InPrep2	1/15/2008 11:57:39 AM	RICH-RC-5014 REVISION 7
SC				BockJ	Prep2C	1/17/2008 3:12:23 PM	RICH-RC-5014 REVISION 7
SC				BlackCL	InCnt1	1/17/2008 3:14:45 PM	RICH-RD-0003 REVISION 5
SC				DAWKINSO	CalcC	1/17/2008 9:33:37 PM	RICH-RD-0003 REVISION 5
SC				nortonj	Rev1C	1/18/2008 11:46:59 AM	RICH-RC-0002 REV 8
AC				BockJ	1/15/2008 11:57:39		
AC				BockJ	1/17/2008 3:12:23 PM		
AC				BlackCL	1/17/2008 3:14:45 PM		
AC				DAWKINSO	1/17/2008 9:33:37 PM		rEVISION 5
AC				nortonj	1/18/2008 11:46:59		

AC: Accepting Entry, SC: Status Change

TAL Richland

Richland Wa

Page 1

Grp Rec Cnt: 6

ICOCFractions v4.8.32

10/2008 3:52:11 PM

Sample Preparation/Analysis

Balance Id:E32905

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,ManisD

34868, 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

AnalyDueDate: 01/24/2008

Batch: 7346607 WATER pCi/L PM, Quote: SA , 57671

SEQ Batch, Test: None

TESTAMERICA RICHLAND AMENDED

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:
KDVKW-1-AF J7L100244-1-SAMP		1000.01g,in	SRTB15742 12/12/07,pd 05/22/07 r		1.0	22.8	100	7A 7A	1111 ~~1006~~ 0731 1016	1/11/08 1/12/08 OD	
12/10/2007 11:55		AmtRec: 20ML,500ML,4XLP,4LP	#Containers: 7					Scr:	Alpha: -5.89E-04 uCi/Sa	Beta: 2.55E-03 uCi/Sa	
2 KDVKW-1-AG-X J7L100244-1-DUP		1000.01g,in	SRTB15743 12/12/07,pd 05/22/07 r		1.0	21.6	100	7B 7B	1111 ~~1006~~ 0731 1016	1/11/08 1/12/08 OD	
12/10/2007 11:55		AmtRec: 20ML,500ML,4XLP,4LP	#Containers: 7					Scr:	Alpha: -5.89E-04 uCi/Sa	Beta: 2.55E-03 uCi/Sa	
3 KDVK0-1-AF J7L100245-1-SAMP		1000.02g,in	SRTB15744 12/12/07,pd 05/22/07 r		1.0	22.8	100	1A 1A	0836 1016	1/11/08 1/10/08 OD	
12/10/2007 11:53		AmtRec: VIAL20,8XLP,3X4LP	#Containers: 12					Scr:	Alpha: 1.96E-03 uCi/Sa	Beta: 1.27E-03 uCi/Sa	
4 KDVK1-1-AE J7L100244-2-SAMP		1000.02g,in	SRTB15745 12/12/07,pd 05/22/07 r		1.0	22.4	100	1B 1B	0832 1016	1/11/08 1/12/08 OD	
12/10/2007 14:03		AmtRec: 20ML,4XLP,4LP	#Containers: 6					Scr:	Alpha: -4.87E-04 uCi/Sa	Beta: 1.88E-03 uCi/Sa	

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TEST AMENDED BY RICHLAND

117

10/2008 3:52:11 PM

Sample Preparation/Analysis

Balance Id:E32905

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 01/24/2008

Sep1 DT/Tm Tech:

Batch: 7346607 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

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:
KDVK2-1-AE J7L100244-3-SAMP		1000.02g,in	SRTB15746 12/12/07,pd		1.0	22	100	1C 1C	0836 1016	1/11/08 SD 1/12/08 SOP	
12/10/2007 10:59		AmtRec: 20ML,4XLP,4LP	#Containers: 6					Scr:	Alpha: 1.86E-03 uCi/Sa	Beta: -9.60E-04 uCi/Sa	
6 KD2CP-1-AA-B J7L120000-607-BLK		1000.03g,in	SRTB15747 12/12/07,pd		1.0	22.3	100	1D 1D	0836 1016	1/11/08 SD 1/12/08 SOP	
12/10/2007 11:55		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:	
7 KD2CP-1-AC-C J7L120000-607-LCS		1000.01g,in	SRSG1427 12/12/07,pd		1.0	22.2	100	2A 2A	0836 1016	1/11/08 SD 1/12/08 SOP	
12/10/2007 11:55		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:	

Comments:

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

KDVKW1AF-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

10/2008 3:52:12 PM

Sample Preparation/Analysis

Balance Id:E32905

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

Pipet #:

AnalyDueDate: 01/24/2008

Sep1 DT/Tm Tech:

Batch: 7346607 pCi/L

Sep2 DT/Tm Tech:

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:

KD2CP1AA-BLK:
Sr-85 RDL: pCi/L LCL:20 UCL:105 RPD:20 Sr-90 RDL:2 pCi/L LCL: UCL: RPD:

KD2CP1AC-LCS:
Sr-85 RDL: pCi/L LCL:20 UCL:105 RPD:20 Sr-90 RDL:2 pCi/L LCL:70 UCL:130 RPD:20

DVKW1AF-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KD2CP1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KD2CP1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TESTAMERICA RICHLAND - AMENDED

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1/15/2008 12:10:27 PM

ICOC Fraction Transfer/Status Report

ByDate: 1/15/2007, 1/20/2008, Batch: '7346607', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7346607						
AC		Rev1C	Barcotl	12/18/2007 11:18:32		
SC			wagarr	IsBatched	12/13/2007 8:33:05 AM	ICOC_RADCALC v4.8.29
SC			Barcotl	InPrep	12/18/2007 11:18:32 AM	RICH-RC-5016 REVISION 7
SC			Barcotl	Prep1C	12/18/2007 11:18:51 AM	RICH-RC-5016 REVISION 7
SC			ManisD	InSep1	12/18/2007 11:29:04 AM	RICH-RC-5006 REV 7
SC			ManisD	Sep1C	12/29/2007 11:36:34 AM	RICH-RC-5006 REV 7
SC			DAWKINSO	InCnt1	12/29/2007 12:32:23 PM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	Cnt1C	12/29/2007 3:32:11 PM	RICH-RD-0007 REVISION 6
SC			ManisD	InSep2	1/9/2008 7:27:20 AM	RICH-RC-5071 REV 5
SC			DAWKINSO	InCnt2	1/10/2008 5:39:20 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	1/12/2008 1:30:59 PM	RICH-RD-0003 REVISION 5
SC			nortonj	Rev1C	1/15/2008 12:09:43 PM	RICH-RC-0002 REV 8
AC			Barcotl	12/18/2007 11:18:51		
AC			ManisD	12/18/2007 11:29:04		
AC			ManisD	12/29/2007 11:36:34		
AC			DAWKINSO	12/29/2007 12:32:23		
AC			DAWKINSO	12/29/2007 3:32:11		
AC			ManisD	1/9/2008 7:27:20 AM		
AC			DAWKINSO	1/10/2008 5:39:20 PM		
AC			DAWKINSO	1/12/2008 1:30:59 PM		
AC			nortonj	1/15/2008 12:09:43		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa

Page 1

Grp Rec Cnt: 10

ICOCFractions v4.3.2

16/2008 3:07:58 PM

Sample Preparation/Analysis

Balance Id:1120482733

4868. Pacific Northwest National Laboratory ,
acific Northwest National Lab

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

Pipet #: _____

nalyDueDate: 01/24/2008 1005283

Sep1 DT/Tm Tech:

Batch: 7346605 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEO Batch, Test: None

Prep Tech: ,HarrisD Rock g.

TESTAMERICA RICHLAND

AMENDED

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 KDTWM-1-AD J7L100165-1-SAMP 12/06/2007 11:14		2000.00g,in AmtRec: VIAL20,LP,4LP #Containers: 3			100mcs	200	64 Scr: Alpha: -5.84E-08 uCi/Sa	1758	1/22/08	Beta: 8.01E-07 uCi/Sa
KDTWM-1-AE-X 7L100165-1-DUP 12/06/2007 11:14		AmtRec: VIAL20,LP,4LP #Containers: 3					67 Scr: Alpha: -5.84E-08 uCi/Sa	2135	1/22/08	Beta: 8.01E-07 uCi/Sa
3 KDTWV-1-AD J7L100165-2-SAMP 12/06/2007 11:14		2000.10g,in AmtRec: VIAL20,LP,4LP #Containers: 3					65 Scr: Alpha: -3.47E-07 uCi/Sa	1758	1/22/08	Beta: 1.50E-06 uCi/Sa
4 KDVKW-1-AE J7L100244-1-SAMP 12/10/2007 11:55		2000.20g,in AmtRec: 20ML,500ML,4XLP,4LP #Containers: 7					67 Scr: Alpha: -5.89E-04 uCi/Sa	1759		Beta: 2.55E-03 uCi/Sa
5 KDVK0-1-AC J7L100245-1-SAMP 12/10/2007 11:53		2000.40g,in AmtRec: VIAL20,8XLP,3X4LP #Containers: 12					68 Scr: Alpha: 1.96E-03 uCi/Sa	1759		Beta: 1.27E-03 uCi/Sa
6 KDVK1-1-AD J7L100244-2-SAMP 12/10/2007 14:03		2000.50g,in AmtRec: 20ML,4XLP,4LP #Containers: 6					611 Scr: Alpha: -4.87E-04 uCi/Sa	1759		Beta: 1.88E-03 uCi/Sa
7 KDVK2-1-AD J7L100244-3-SAMP 12/10/2007 10:59		2000.30g,in AmtRec: 20ML,4XLP,4LP #Containers: 6					614 Scr: Alpha: 1.86E-03 uCi/Sa	1759		Beta: -9.60E-04 uCi/Sa

120

16/2008 3:08:00 PM

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: 01/24/2008

Batch: 7346605 pCi/L

REQ 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:
KD2CC-1-AA-B J7L120000-605-BLK 12/06/2007 11:14		2000.20g,in AmtRec:	#Containers: 1		100mls	200	G4	2136	1/22/08 DD	
KD2CC-1-AC-C J7L120000-605-LCS 12/06/2007 11:14		2000.20g,in AmtRec:	qcag1436 11/12/07,pd 03/07/05,r #Containers: 1				G5	2137		

Scr: Alpha: Beta:

Comments: DH 1/22/08. Insuff volume for dup. Count on different detector. DHH 1/16/08

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

KDTWM1AD-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:

KD2CC1AA-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:

KD2CC1AC-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						

KDTWM1AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KD2CC1AA-BLK:

TESTAMERICA RICHLAND AMENDED
121

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: 01/25/2008

Batch: 7356095 pCi/L
GEO 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:

Comments: PH<2.0. Insuff volume for dup. count on different detector. DLH 1/16/08

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

KD2TR1AC-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:

KEP5A1AA-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:

KEP5A1AC-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						

KD2TR1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KEP5A1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KEP5A1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TESTAMERICA RICHLAND - AMENDED
122
122

1/25/2008 2:45:01 PM

ICOC Fraction Transfer/Status Report

ByDate: 1/25/2007, 1/30/2008, Batch: '7346605', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7346605						
AC		Rev1C	HarrisD	1/16/2008 2:54:15 PM		
SC			wagarr	IsBatched	12/13/2007 8:33:05 AM	ICOC_RADCALC v4.8.29
SC			HarrisD	InPrep	1/16/2008 2:54:15 PM	RICH-RC-5014 Revision 7
SC			HarrisD	Prep1C	1/16/2008 3:08:03 PM	RICH-RC-5017 REVISION 6
SC			BockJ	InPrep2	1/21/2008 8:05:43 AM	RICH-RC-5014 REVISION 7
SC			BockJ	InPrep2	1/21/2008 8:05:53 AM	RICH-RC-5017 REVISION 6
SC			BockJ	Prep2C	1/22/2008 1:41:09 PM	RICH-RC-5017 REVISION 6
SC			BlackCL	InCnt1	1/22/2008 1:42:44 PM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	CalcC	1/22/2008 9:59:25 PM	RICH-RD-0007 REVISION 6
SC			antonsonl	Rev1C	1/25/2008 2:44:51 PM	RICH-RC-0002 REV 8
AC			HarrisD	1/16/2008 3:08:03 PM		
AC			BockJ	1/21/2008 8:05:43		
AC			BockJ	1/21/2008 8:05:53		
AC			BockJ	1/22/2008 1:41:09 PM		
AC			BlackCL	1/22/2008 1:42:44 PM		
AC			DAWKINSO	1/22/2008 9:59:25 PM		
AC			antonsonl	1/25/2008 2:44:51 PM		

AC: Accepting Entry, SC: Status Change

TAL Richland

Richland Wa

Page 1

Grp Rec Cnt: 8

ICOCFractions v2.3.32

17/2008 10:08:14 AM

Sample Preparation/Analysis

Balance Id:2113224201

34868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 01/24/2008 W05283

Sep1 DT/Tm Tech:

Batch: 8016175 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

REQ Batch, Test: None All Tests: 7346606 BNTB, 8016175 BNTB,

Prep Tech: BostedD

TESTAMERICA RICHLAND AMENDED

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 KDQEC-1-AC-X J7L070398-1-DUP 12/07/2007 12:45		3863.50g,in AmtRec: VIAL20,2X4LP #Containers: 3	ITA6870 12/11/07		36.4	100	L2	2024 Scr: Alpha: 1.40E-03 uCi/Sa	1/22/08 KD Beta: -2.70E-04 uCi/Sa	
KDQEC-2-AA J7L070398-1-SAMP 12/07/2007 12:45		AmtRec: VIAL20,2X4LP #Containers: 3	ISV		N/A			Scr: Alpha: 1.40E-03 uCi/Sa	Beta: -2.70E-04 uCi/Sa	
3 KDQFA-2-AA J7L070402-1-SAMP 12/06/2007 14:26		3883.50g,in AmtRec: 20ML,4LP #Containers: 3	ITA6783 11/08/07		37.1		L4	2025 Scr: Alpha: -5.61E-04 uCi/Sa	1/22/08 KD Beta: 1.11E-03 uCi/Sa	
4 KDQFJ-2-AA J7L070402-2-SAMP 12/06/2007 11:14		3871.30g,in AmtRec: 20ML,4LP #Containers: 3	ITA6878 12/11/07		36.7		L5	Scr: Alpha: 1.80E-03 uCi/Sa	Beta: -1.07E-05 uCi/Sa	
5 KDQFM-2-AA J7L070402-3-SAMP 12/06/2007 10:12		3887.10g,in AmtRec: 20ML,4LP #Containers: 3	ITA6879 12/11/07		5.4		L2	2208 Scr: Alpha: -5.06E-04 uCi/Sa	Beta: 2.24E-03 uCi/Sa	
6 KDQFQ-1-AA J7L070402-4-SAMP 12/06/2007 14:26		3890.50g,in AmtRec: 20ML,4LP #Containers: 3	ITA6874 12/11/07		30.7		L4	Scr: Alpha: -6.75E-04 uCi/Sa	Beta: 2.67E-03 uCi/Sa	
7 KDQFV-1-AA J7L070402-5-SAMP 12/06/2007 11:14		3899.90g,in AmtRec: 20ML,4LP #Containers: 3	ITA6875 12/11/07		18.2		L5	2209 Scr: Alpha: 2.23E-05 uCi/Sa	Beta: 1.62E-04 uCi/Sa	

7/2008 10:08:19 AM

Sample Preparation/Analysis

Balance Id:2113224201

384868, Pacific Northwest National Laboratory ,
cific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 01/24/2008

Sep1 DT/Tm Tech:

Batch: 8016175 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BostedD

TESTAMERICA RICHLAND

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:
KDVK0-2-AD J7L100245-1-SAMP		3886.40g,in	ITA6880 12/11/07		37.3	100	L2	2351	1/22/08 OAD	
2/10/2007 11:53		AmtRec: VIAL20,8XLP,3X4LP	#Containers: 12				Scr:	Alpha: 1.96E-03 uCi/Sa		Beta: 1.27E-03 uCi/Sa
KD2CJ-2-AA-B L120000-606-BLK		3843.80g,in	ITA6881 12/11/07		37.6		L4	2352		
12/07/2007 12:45		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:
10 KD2CJ-2-AC-C J7L120000-606-LCS		3935.50g,in	ISD0804 01/09/08		38.0		L5			
12/07/2007 12:45		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:

AMENDED

12/5

Comments: KDQEC-DUP "Comments ISV for a dup."

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

KDQEC1AC-DUP Constituent List:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
KD2CJ2AA-BLK:
I-129 RDL:5 pCi/L LCL: UCL: RPD:
KD2CJ2AC-LCS:
I-129 RDL:5 pCi/L LCL:70 UCL:130 RPD:20
KDQEC1AC-DUP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KD2CJ2AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KD2CJ2AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

17/2008 10:08:22 AM

Sample Preparation/Analysis

Balance Id:2113224201

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

Pipet #: _____

AnalyDueDate: 01/24/2008

Sep1 DT/Tm Tech:

Batch: 8016175 pCi/L

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:

Approved By _____ Date: _____

1/31/2008 11:59:41 AM

ICOC Fraction Transfer/Status Report

ByDate: 1/31/2007, 2/5/2008, Batch: '8016175', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
8016175							
AC			Rev1C	BostedD	1/17/2008 10:15:55		
SC				antonsonl	IsBatched	1/16/2008 1:26:04 PM	ICOC_RADCALC v4.8.32
SC				BostedD	InPrep2	1/17/2008 10:15:55 AM	RICHRC5025 REVISION 4
SC				BostedD	Prep2C	1/22/2008 6:35:55 PM	RICHRC5025 REVISION 4
SC				DAWKINSO	InCnt1	1/22/2008 8:19:39 PM	RICH-RD-0007 REVISION 6
SC				ClarkR	CalcC	1/23/2008 7:04:27 AM	RICH-RD-0007 REVISION 6
SC				antonsonl	Rev1C	1/31/2008 11:59:24 AM	RICH-RC-0002 REV 8
AC				BostedD	1/22/2008 6:35:55 PM		
AC				DAWKINSO	1/22/2008 8:19:39 PM		
AC				ClarkR	1/23/2008 7:04:27		
AC				antonsonl	1/31/2008 11:59:24		

AC: Accepting Entry, SC: Status Change

TAL Richland

Richland WA

Page 1

Grp Rec Cnt: 5

ICOCFractionsV2.7.32

TESTAMERICA RICHLAND AMENDED 1-28

12/29/2008 9:47:02 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 01/24/2008

Sep1 DT/Tm Tech:

Batch: 8028306 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7346606 BNTB, 8016175 BNTB, 8028306 BNTB.

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:
KDQFV-2-AA U7L070402-5-SAMP		3877.90g.in	ITA6925 12/11/07		36.7	~~200~~ 100	DB 1-30-08	L4	2007	1/30/08 DB
12/06/2007 11:14		AmtRec: 20ML,4LP	#Containers: 3					Scr:	Alpha: 2.23E-05 uCi/Sa	Beta: 1.52E-04 uCi/Sa
KF7C9-1-AA-B J8A280000-306-BLK		3981.30g.in	ITA6924 12/11/07		36.0			L5	2008	
12/06/2007 11:14		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:
3 KF7C9-1-AC-C J8A280000-306-LCS		3999.80g.in	ISD0808 01/09/08		37.0			L2	2009	
12/06/2007 11:14		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:

Comments: KDQFV-SAMP "Comments: ISV DLH 1/29/08"

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

KDQFV2AA-SAMP Constituent List:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
KF7C91AA-BLK Constituent List:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
KF7C91AC-LCS:
I-129 RDL:5 pCi/L LCL:70 UCL:130 RPD:20

KDQFV2AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KF7C91AA-BLK Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KF7C91AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Sample Preparation/Analysis

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

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

AnalyDueDate: 01/24/2008

Batch: 8028306 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.

Approved By _____ Date: _____

TESTAMERICA RICHLAND - AMENDED 129

1/31/2008 11:26:03 AM

ICOC Fraction Transfer/Status Report

ByDate 1/31/2007, 2/5/2008, Batch: '8028306', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8028306						
AC		Rev1C	HarrisD	1/29/2008 9:28:12		
SC			harrisd	IsBatched	1/29/2008 9:14:57 AM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	1/29/2008 9:28:12 AM	RICH-RC-5014 Revision 7
SC			HarrisD	Prep1C	1/29/2008 9:47:10 AM	RICH-RC-5017 REVISION 6
SC			BostedD	InPrep2	1/29/2008 1:16:42 PM	RICHRC5025 REVISION 4
SC			BostedD	Prep2C	1/30/2008 6:22:52 PM	RICHRC5025 REVISION 4
SC			DAWKINSO	InCnt1	1/30/2008 8:25:55 PM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	CalcC	1/30/2008 8:45:29 PM	RICH-RD-0007 REVISION 6
SC			antonsonl	Rev1C	1/31/2008 11:25:52 AM	RICH-RC-0002 REV 8
AC			HarrisD	1/29/2008 9:47:10		
AC			BostedD	1/29/2008 1:16:42 PM		
AC			BostedD	1/30/2008 6:22:52 PM		
AC			DAWKINSO	1/30/2008 8:25:55 PM		
AC			DAWKINSO	1/30/2008 8:45:29 PM		
AC			antonsonl	1/31/2008 11:25:52		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa

Page 1

Grp Rec Cnt: 7

ICOCFractions v3.0.32

12/13/2007 8:31:19 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

5S C-14 Prp/SepRC5022
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

Balance Id:
Pipet #:
Sep1 DT/Tm Tech: 12-17-07 am
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 01/24/2008 WO 5283

Batch: 7346604 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
KDVK0-1-AA J7L100245-1-SAMP 12/10/2007 11:53		AmtRec: VIAL20,8XLP,3X4LP	#Containers: 12			Scr:	Alpha:	Beta:
KDVK0-1-AJ-X J7L100245-1-DUP 12/10/2007 11:53		AmtRec: VIAL20,8XLP,3X4LP	#Containers: 12			Scr:	Alpha:	Beta:
3 KD2A7-1-AA-B J7L120000-604-BLK 12/10/2007 11:53		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
4 KD2A7-1-AC-C J7L120000-604-LCS 12/10/2007 11:53		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
5 KD2A7-1-AD-B J7L120000-604-BLK 12/10/2007 11:53		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

KDVK01AA-SAMP Constituent List:
C-14 RDL:2.00E+02 pCi/L LCL:70 UCL:130 RPD:20

TESTAMERICA RICHLAND AMENDED
131

/13/2007 8:31:20 AM

Sample Preparation/Analysis

5S C-14 Prp/SepRC5022
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

Balance Id:

Pipet #:

Sep1 DT/Tm Tech: 12-17-07 pm

Sep2 DT/Tm Tech:

Prep Tech:

alyDueDate: 01/24/2008

atch: 7346604 pCi/L

SEQ Batch, Test: None

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

```
2A71AA-BLK:
C-14        RDL:2.00E+02    pCi/L    LCL:        UCL:        RPD:
D2A71AC-LCS:
 C-14       RDL:200         pCi/L    LCL:70      UCL:130     RPD:20
2A71AD-BLK:
C-14        RDL:2.00E+02    pCi/L    LCL:        UCL:        RPD:
VK01AA-SAMP Calc Info:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
D2A71AA-BLK:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
KD2A71AC-LCS:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
KD2A71AD-BLK:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

Approved By _____ Date: _____

TESTAMERICA RICHLAND AMENDED

132

12/31/2007 11:26:33 AM

ICOC Fraction Transfer/Status Report

ByDate: 12/31/2006, 1/5/2008, Batch: '7346604', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
7346604							
AC			CalcC	McDowellD	12/17/2007 11:45:21		
SC				wagarr	IsBatched	12/13/2007 8:33:05 AM	ICOC_RADCALC v4.8.29
SC				McDowellD	InSep1	12/17/2007 11:45:21 AM	RICH-RC-5022 REVISION 3
SC				McDowellD	Sep1C	12/18/2007 1:06:54 PM	RICH-RC-5022 REVISION 3
SC				ClarkR	InCnt1	12/18/2007 1:09:31 PM	RICH-RD-0001 REVISION 4
SC				BlackCL	CalcC	12/19/2007 6:21:01 AM	RICH-RD-0001 REVISION 4
AC				McDowellD	12/18/2007 1:06:54		
AC				ClarkR	12/18/2007 1:09:31		
AC				BlackCL	12/19/2007 6:21:01		

AC: Accepting Entry, SC: Status Change

STL Richland

Richland Wa

Page 1

Grp Rec Cnt: 4

ICOCFractions 7.4.30

6/2008 8:34:33 AM

Sample Preparation/Analysis

Balance Id:

4868. Pacific Northwest National Laboratory ,
cific Northwest National Lab

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

Pipet #:

AnalyDueDate: 01/24/2008

Sep1 DT/Tm Tech:

Batch: 8015172 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

TESTAMERICA RICHLAND - AMENDED

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:
KDQE6-2-AA J7L070403-1-SAMP 2/06/2007 13:16			AmtRec: VIAL20,500MLP	#Containers: 2			Scr	Alpha: -1.16E-04 uCi/Sa		Beta: 1.50E-04 uCi/Sa
KDQE6-2-AC-S 7L070403-1-MS 12/06/2007 13:16			AmtRec: VIAL20,500MLP	#Containers: 2			Scr:	Alpha: -1.16E-04 uCi/Sa		Beta: 1.50E-04 uCi/Sa
3 KDQE6-2-AD-X J7L070403-1-DUP 2/06/2007 13:16			AmtRec: VIAL20,500MLP	#Containers: 2			Scr:	Alpha: -1.16E-04 uCi/Sa		Beta: 1.50E-04 uCi/Sa
4 KD2DN-2-AA-B J7L120000-617 BLK 12/06/2007 13:16			AmtRec:	#Containers: 1			Scr:	Alpha:		Beta:
5 KD2DN-2-AC-C J7L120000-617-LCS 12/06/2007 13:16			AmtRec:	#Containers: 1			Scr:	Alpha:		Beta:
6 KD2DN-2-AD-B J7L120000-617-BLK 12/06/2007 13:16			AmtRec:	#Containers: 1			Scr:	Alpha:		Beta:

134

6/2008 8:34:33 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 01/24/2008

Batch: 8015172 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

Comments:

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

KDQE62AA-SAMP Constituent List:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
KDQE62AC-MS Constituent List:

KD2DN2AA-BLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
KD2DN2AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
KD2DN2AD-BLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:

KDQE62AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KDQE62AC-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KD2DN2AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KD2DN2AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KD2DN2AD-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TESTAMERICA RICHLAND - AMENDED
135
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1/30/2008 12:12:27 PM

ICOC Fraction Transfer/Status Report

ByDate: 1/30/2007, 2/4/2008, Batch: '8015172', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8015172						
AC		Rev1C	BlackCL	1/18/2008 11:49:56		
SC			BlackCL	InCnt1	1/18/2008 11:49:56 AM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	1/20/2008 6:52:11 AM	RICH-RD-0001 REVISION 4
SC			nortonj	Rev1C	1/30/2008 12:12:10 PM	RICH-RC-0002 REV 8
AC			BlackCL	1/20/2008 6:52:11		
AC			nortonj	1/30/2008 12:12:10		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa

Page 1

Grp Rec Cnt: 3

ICOCFractions V1.02

/13/2007 8:31:22 AM

Sample Preparation/Analysis

Balance Id: 12445

Pipet #:

Sep1 DT/Tm Tech: 12-17-07 [illegible]

Sep2 DT/Tm Tech:

Prep Tech:

4868, Pacific Northwest National Laboratory ,
acific Northwest National Lab

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

AnalyDueDate: 01/24/2008 WO5283

Batch: 7346615 WATER pCi/L PM, Quote: SA , 57671

SEQ Batch, Test: None

TESTAMERICA RICHLAND AMENDED 1137

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:
KDT4M-1-AC J7L100171-6-SAMP 2/07/2007 11:20		AmtRec: VIAL20,500G,2XLP	#Containers: 4			Scr:	Alpha:	Beta:
KDT4M-1-AF-X 7L100171-6-DUP 12/07/2007 11:20		AmtRec: VIAL20,500G,2XLP	#Containers: 4			Scr:	Alpha:	Beta:
3 KDT4T-1-AC J7L100171-7-SAMP 2/07/2007 08:51		AmtRec: VIAL20,500G,2XLP	#Containers: 4			Scr:	Alpha:	Beta:
4 KD2DF-1-AA-B J7L120000-615-BLK 12/07/2007 11:20		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
5 KD2DF-1-AC-C J7L120000-615-LCS 12/07/2007 11:20		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 KD2DF-1-AD-B J7L120000-615-BLK 12/07/2007 11:20		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
7 KD2DF-1-AE-C J7L120000-615-LCS 12/07/2007 11:20		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

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2/13/2007 8:31:22 AM

Sample Preparation/Analysis

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

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 12-17-07 am
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 01/24/2008

Batch: 7346615 pCi/L
SEQ Batch, Test: None

TESTAMERICA RICHLAND AMENDED 138

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:
KD2DF-1-AF-B J7L120000-615-BLK 12/07/2007 11:20	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
KD2DF-1-AG-B J7L120000-615-BLK 12/07/2007 11:20	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments:

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

KDT4M1AC-SAMP Constituent List:

H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20
KD2DF1AA-BLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
KD2DF1AC-LCS:					
H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20
KD2DF1AD-BLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
KD2DF1AE-LCS:					
H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20
KD2DF1AF-BLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
KD2DF1AG-BLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:

KDT4M1AC-SAMP Calc Info:

Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KD2DF1AA-BLK:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KD2DF1AC-LCS:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

Sample Preparation/Analysis

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

Balance Id: 17415
Pipet #:
Sep1 DT/Tm Tech: 12-17-07 DM
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 01/24/2008

Batch: 7346615 pCi/L
EQ Batch. Test: None

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

D2DF1AD-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
D2DF1AE-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
D2DF1AF-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
D2DF1AG-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TESTAMENT TO RICHLAND - AMENDED 139

12/31/2007 11:51:47 AM

ICOC Fraction Transfer/Status Report

ByDate: 12/31/2006, 1/5/2008, Batch: '7346615', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7346615						
AC		CalcC	McDowellD	12/17/2007 11:44:49		
SC			wagarr	IsBatched	12/13/2007 8:33:05 AM	ICOC_RADCALC v4.8.29
SC			McDowellD	InSep1	12/17/2007 11:44:49 AM	RICH-RC-5007 REVISION 6
SC			McDowellD	Sep1C	12/17/2007 2:31:36 PM	RICH-RC-5007 REVISION 6
SC			BlackCL	InCnt1	12/17/2007 2:45:41 PM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	12/19/2007 6:20:52 AM	RICH-RD-0001 REVISION 4
AC			McDowellD	12/17/2007 2:31:36		
AC			BlackCL	12/17/2007 2:45:41		
AC			BlackCL	12/19/2007 6:20:52		

AC: Accepting Entry, SC: Status Change

STL Richland

Richland Wa

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Grp Rec Cnt: 4

ICOCFractions 1.4.0.0

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TESTAMERICA RICHLAND - AMENDED

8/2008 8:08:44 AM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory .
Pacific Northwest National Lab

CY Se-79 PrpRC5016, SepRC5043
TM Selenium-79 by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 01/24/2008

Sep1 DT/Tm Tech:

Batch: 7346616 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,Barcott

TESTAMERICA RICHLAND AMENDED 1-4-1

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
KDVK0-1-AE U7L100245-1-SAMP 12/10/2007 11:53		200.02g,in AmtRec: VIAL20,8XLP,3X4LP	SETA0228 01/08/08 #Containers: 12		50		Scr:	Alpha: 1.96E-03 uCi/Sa	Beta: 1.27E-03 uCi/Sa
KDVK0-1-AK-X U7L100245-1-DUP 12/10/2007 11:53		200.02g,in AmtRec: VIAL20,8XLP,3X4LP	SETA0227 01/08/08 #Containers: 12				Scr:	Alpha: 1.96E-03 uCi/Sa	Beta: 1.27E-03 uCi/Sa
3 KD2DL-1-AA-B J7L120000-616-BLK 12/10/2007 11:53		200.01g,in AmtRec:	SETA0226 01/08/08 #Containers: 1				Scr:	Alpha:	Beta:
4 KD2DL-1-AC-BN J7L120000-616-IBLK 12/10/2007 11:53		AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments:

SXP 15/5

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

KDVK01AE-SAMP Constituent List:

Se-79	RDL:3.00E+01	pCi/L	LCL:	UCL:	RPD:

KD2DL1AA-BLK:

Se-79	RDL:3.00E+01	pCi/L	LCL:	UCL:	RPD:

KD2DL1AC-IBLK:

Se-79	RDL:3.00E+01	pCi/L	LCL:	UCL:	RPD:

KDVK01AE-SAMP Calc Info:

1-4-1

Sample Preparation/Analysis

CY Se-79 PrpRC5016, SepRC5043
TM Selenium-79 by Liquid Scint
5I CLIENT: HANFORD

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

AnalyDueDate: 01/24/2008

Batch: 7346616 pCi/L
SEO Batch, Test: None

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

Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KD2DL1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KD2DL1AC-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TESTAMERICA RICHLAND AMENDED 142

1/17/2008 10:58:53 AM

ICOC Fraction Transfer/Status Report

ByDate: 1/17/2007, 1/22/2008, Batch: '7346616', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7346616						
AC		Rev1C	Barcotl	1/8/2008 8:10:47 AM		
SC			wagarr	IsBatched	12/13/2007 8:33:05 AM	ICOC_RADCALC v4.8.29
SC			Barcotl	InPrep	1/8/2008 8:10:47 AM	RICH-RC-5016 REVISION 7
SC			Barcotl	Prep1C	1/8/2008 8:11:02 AM	RICH-RC-5016 REVISION 7
SC			ManisD	InSep1	1/9/2008 9:20:02 AM	RICH-RC-5043 REV 3
SC			ManisD	Sep1C	1/11/2008 4:04:44 PM	RICH-RC-5043 REV 3
SC			DAWKINSO	InCnt1	1/11/2008 4:27:28 PM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	1/15/2008 1:04:57 PM	RICH-RD-0001 REVISION 4
SC			nortonj	Rev1C	1/17/2008 10:58:46 AM	RICH-RC-0002 REV 8
AC			Barcotl	1/8/2008 8:11:02 AM		
AC			ManisD	1/9/2008 9:20:02 AM		
AC			ManisD	1/11/2008 4:04:44 PM		
AC			DAWKINSO	1/11/2008 4:27:28 PM		rEVISION 4
AC			BlackCL	1/15/2008 1:04:57 PM		
AC			nortonj	1/17/2008 10:58:46		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.3

12/13/2007 8:31:23 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
IZ COLIFORM BY METHOD 9223
5I CLIENT: HANFORD

AnalyDueDate: 01/24/2008 WO5283

Batch: 7346619 WATER

PM, Quote: SA , 57671

SEQ Batch, Test: None

Balance Id:

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KDVKW-1-AA J7L100244-1-SAMP 12/10/2007 11:55		AmtRec: 20ML,500ML,4XLP,4LP	#Containers: 7			Scr:	Alpha:	Beta:
2 KDVKW-1-AJ-X J7L100244-1-DUP 12/10/2007 11:55		AmtRec: 20ML,500ML,4XLP,4LP	#Containers: 7			Scr:	Alpha:	Beta:
3 KD2D0-1-AA-B J7L120000-619-BLK 12/10/2007 11:55		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
4 KD2D0-1-AC-C J7L120000-619-LCS 12/10/2007 11:55		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

KDVKW1AA-SAMP Constituent List:

KD2D01AA-BLK:

KD2D01AC-LCS:

KDVKW1AA-SAMP Calc Info:

TEST AMENDED RICHLAND AMENDED 144

Sample Preparation/Analysis

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
IZ COLIFORM BY METHOD 9223
5I CLIENT: HANFORD

AnalyDueDate: 01/24/2008

Batch: 7346619
SEQ Batch. Test: None

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

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

Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KD2D01AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KD2D01AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TESTAMERICA RICHLAND - AMENDED 145

12/13/2007 8:31:23 AM

Sample Preparation/Analysis

Balance Id:

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
EA Chromium, Hexavalent (7196A)

Pipet #:

AnalyDueDate: 01/24/2008 W05283

5I CLIENT: HANFORD

Sep1 DT/Tm Tech:

Batch: 7346618 WATER mg/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEO Batch. Test: None

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KDT4M-1-AA J7L100171-6-SAMP 12/07/2007 11:20		AmtRec: VIAL20,500G,2XLP	#Containers: 4			Scr:	Alpha:	Beta:
2 KDT4M-1-AG-S J7L100171-6-MS 12/07/2007 11:20		AmtRec: VIAL20,500G,2XLP	#Containers: 4			Scr:	Alpha:	Beta:
3 KDT4M-1-AH-X J7L100171-6-DUP 12/07/2007 11:20		AmtRec: VIAL20,500G,2XLP	#Containers: 4			Scr:	Alpha:	Beta:
4 KDT4M-1-AJ-S J7L100171-6-MS 12/07/2007 11:20		AmtRec: VIAL20,500G,2XLP	#Containers: 4			Scr:	Alpha:	Beta:
5 KDT4T-1-AA J7L100171-7-SAMP 12/07/2007 08:51		AmtRec: VIAL20,500G,2XLP	#Containers: 4			Scr:	Alpha:	Beta:
6 KD2DV-1-AA-B J7L120000-618-BLK 12/07/2007 11:20		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
7 KD2DV-1-AC-C J7L120000-618-LCS 12/07/2007 11:20		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

TESTAMERICA RICHLAND - AMENDED
149
149

12/13/2007 5:31:23 AM

Sample Preparation/Analysis

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
EA Chromium, Hexavalent (7196A)
5I CLIENT: HANFORD

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

AnalyDueDate: 01/24/2008

Batch: 7346618 mg/L
SEQ Batch, Test: None

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

Comments:

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

KDT4M1AA-SAMP Constituent List:
HEXCHROME RDL:0.002 mg/L LCL:85 UCL:115 RPD:20
KDT4M1AG-MS Constituent List:
HEXCHROME RDL:0.002 mg/L LCL:85 UCL:115 RPD:20
KDT4M1AJ-MS:
HEXCHROME RDL:0.002 mg/L LCL:85 UCL:115 RPD:20
KD2DV1AA-BLK:
HEXCHROME RDL:0.002 mg/L LCL: UCL: RPD:
KD2DV1AC-LCS:
HEXCHROME RDL:0.002 mg/L LCL:85 UCL:115 RPD:20

KDT4M1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KDT4M1AG-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KDT4M1AJ-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KD2DV1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KD2DV1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TESTAMERICA RICHLAND - AMENDED