TESTAMERICA RICHLAND

1

RECEIVED
MAY 2 2 2008
EDMC

Analytical Data Package Prepared For

Fluor Hanford

Radiochemical Analysis By

TAL Richland TARL

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

Data Package Contains 124 *Pages*

Report Nbr: 37875

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05247	W08-010	B1PWV2	J7J110118-1	J8NN81AA	9J8NN810	7292469
		B1PWV2	J7J110118-1	J8NN81AC	9J8NN810	7292471
		B1PWM8	J7J110118-2	J8NPD1AA	9J8NPD10	7292469
		B1PWM8	J7J110118-2	J8NPD1AC	9J8NPD10	7292471
		B1PX14	J7J110118-3	J8NPK1AA	9J8NPK10	7292469
		B1PX14	J7J110118-3	J8NPK1AC	9J8NPK10	7292471
		B1PX02	J7J110118-4	J8NPV1AA	9J8NPV10	7292469
		B1PX02	J7J110118-4	J8NPV1AC	9J8NPV10	7292471
		B1PX83	J7J110118-5	J8N923AA	9J8N9230	7337235
	I08-002	B1PTP5	J7J120175-1	J8THM1AA	9J8THM10	7285312
		B1PTP5	J7J120175-1	J8THM1AD	9J8THM10	7292472
		B1PTP5	J7J120175-1	J8THM2AC	9J8THM20	7330557
		B1PTX7	J7J120175-2	J8THP1AA	9J8THP10	7292469
		B1PTX7	J7J120175-2	J8THP1AC	9J8THP10	7292471
		B1PTX7	J7J120175-2	J8THP1AD	9J8THP10	7292475

RECEIVED
JAN 0 3 2008

Comments:

0077539

Report Nbr: 37875

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05247	I08-002	B1PV09	J7J120175-3	J8THW1AA	9J8THW10	7292469
		B1PV09	J7J120175-3	J8THW1AC	9J8THW10	7292471
		B1PV09	J7J120175-3	J8THW1AD	9J8THW10	7292472
		B1PTW3	J7J120175-4	J8TH31AA	9J8TH310	7292469
		B1PTW3	J7J120175-4	J8TH31AC	9J8TH310	7292471
		B1PTW3	J7J120175-4	J8TH31AD	9J8TH310	7292476
		B1PV10	J7J120175-5	J8TH81AA	9J8TH810	7292469
		B1PV10	J7J120175-5	J8TH81AC	9J8TH810	7292471
		B1PV10	J7J120175-5	J8TH81AD	9J8TH810	7292472
		B1PTV9	J7J120175-6	J8TJD1AA	9J8TJD10	7292469
		B1PTV9	J7J120175-6	J8TJD1AC	9J8TJD10	7292471
	W08-010	B1PWY0	J7J170133-1	J85AH1AA	9J85AH10	7292469
		B1PWY0	J7J170133-1	J85AH1AC	9J85AH10	7292471
		B1PX80	J7J170133-2	J86WH3AA	9J86WH30	7337235
	A08-010	B1PPK4	J7J170134-1	J85CN1AA	9J85CN10	7292473
		B1PPK5	J7J170134-2	J85CV1AA	9J85CV10	7292473
	I08-002	B1PV04	J7J170140-1	J85DV1AA	9J85DV10	7292469
		B1PV04	J7J170140-1	J85DV1AC	9J85DV10	7292471
		B1PV00	J7J170140-2	J85D71AA	9J85D710	7292469
		B1PV00	J7J170140-2	J85D71AC	9J85D710	7292471
		B1PV29	J7J170140-3	J85EF1AA	9J85EF10	7292469
		B1PV29	J7J170140-3	J85EF1AC	9J85EF10	7292471
	S08-010	B1PW12	J7J170142-1	J85E51AA	9J85E510	7292472
		B1PW10	J7J170142-2	J85E91AA	9J85E910	7292472
	W08-010	B1PWP0	J7J170146-1	J85GF1AA	9J85GF10	7292469
		B1PWP0	J7J170146-1	J85GF1AC	9J85GF10	7292471

Comments:

Report Nbr: 37875

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05247	W08-010	B1PWP1	J7J170146-2	J85GG1AA	9J85GG10	7292469
		B1PWP1	J7J170146-2	J85GG1AC	9J85GG10	7292471

Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

December 26, 2007

Attention: Steve Trent

SAF Number	:	W08-010, I08-002, A08-010, S08-010
Date SDG Closed	:	October 16, 2007
Number of Samples	:	Twenty Two (22)
Sample Type	:	Water
SDG Number	:	W05247
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between October 10, 2007 and October 16, 2007 twenty two water samples were received at TestAmerica Laboratories Richland (TALR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Fluor Hanford specific IDs:

PGW ID#	STLR ID#	DATE OF RECEIPT	MATRIX
B1PWV2	J8NN8	10/10/07	WATER
B1PWM8	J8NPD	10/10/07	WATER
B1PX14	J8NPK	10/10/07	WATER
B1PX83	J8N92	10/10/07	WATER
B1PX02	J8NPV	10/10/07	WATER
B1PTP5	J8THM	10/11/07	WATER
B1PTX7	J8THP	10/11/07	WATER
B1PV09	J8THW	10/11/07	WATER
B1PTW3	J8TH3	10/11/07	WATER
B1PV10	J8TH8	10/11/07	WATER
B1PTV9	J8TJD	10/11/07	WATER
B1PWY0	J85AH	10/16/07	WATER
B1PX80	J86WH	10/16/07	WATER

B1PPK4	J85CN	10/16/07	WATER
B1PPK5	J85CV	10/16/07	WATER
B1PV04	J85DV	10/16/07	WATER
B1PV00	J85D7	10/16/07	WATER
B1PV29	J85EF	10/16/07	WATER
B1PW12	J85E5	10/16/07	WATER
B1PW10	J85E9	10/16/07	WATER
B1PWP0	J85GF	10/16/07	WATER
B1PWP1	J85GG	10/16/07	WATER

II. Sample Receipt

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

III. Analytical Results/Methodology

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

The requested analyses were:

Gas Proportional Counting
Gross Alpha by method RICH-RC-5014
Gross Beta by method RICH-RC-5014
Strontium-90 by method RICH-RC-5006
Gamma Spectroscopy
Gamma Spec by method RICH-RC-5017
Iodine-129 (LL) by method RICH-RC-5025
Liquid Scintillation Counting
Technetium-99 by method RICH-RC-5078
Tritium by method RICH-RC-5007
Carbon-14 by method RICH-RC-5022
Chemical Analysis
Hexavalent Chromium by EPA method 7196A

IV. Quality Control

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

QC and sample results are reported in the same units

V. Comments

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:
Samples B1PX02, B1PTX7, B1PV09 and B1PTV9 were analyzed with reduced aliquots based on weight screen results. Except as noted, the LCS, batch blank, samples and sample duplicate (B1PWP0) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:
Samples B1PV09 and B1PTV9 were analyzed with reduced aliquots based on weight screen results. Except as noted, the LCS, batch blank, samples and sample duplicate (B1PWP0) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006
The LCS, batch blank, samples and sample duplicate (B1PW12) results are within contractual requirements.

Gamma SpectroscopyS

Gamma Spec by method RICH-RC-5017:
There was insufficient volume for a duplicate. Sample B1PTX7 was counted on a different detector for the duplicate. Except as noted, the LCS, batch blank, samples and sample duplicate (B1PTX7) results are within contractual requirements.

Iodine-129 (LL) by method RICH-RC-5025:
The LCS, batch blank, samples and sample duplicate (B1PPK4) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by method RICH-RC-5078:
The LCS recovery being was low on the original analysis. The samples were reanalyzed.

The duplicates were out on the reanalysis batch. The sample (B1PX80) and it's duplicate (B1PX80 DUP) were recounted. The TSIE was out on the duplicate. The client was notified on Dec 14, 2007. The client accepted the proposed resolution on Dec 18, 2007 (IRF Tracking No.: 07-125). Except as noted, the LCS, batch blank, samples and sample matrix spike (B1PX83) results are within contractual requirements.

Tritium by method RICH-RC-5007:
The LCS was low after the first count. The entire batch was recounted with acceptable results. Except as noted, the LCS, batch blank, samples and sample duplicate (B1PTP5) results are within contractual requirements.

Carbon-14 by method RICH-RC-5022:
The LCS, batch blank, samples and sample duplicate (B1PTW3) results are within contractual requirements.

Chemical Analysis
Hexavalent Chromium by EPA method 7196A
The LCS, batch blank, samples, sample duplicate (B1PTP5), sample matrix spike (B1PTP5), and matrix spike duplicate results (B1PTP5) 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/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the **Work Order** Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt($TPUs^2$ + $TPUd^2$)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by STL Richland upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

12/26/2007 11:51:17 AM

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 37875 File Name: h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.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:
9J85AH10	B1PWY0		MW6-SBB-A1	W08-010	W05247					10/16/2007 11:27

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7292469	ALPHA	12587-46-1	2.28E+00	pCi/L	1.3E+00	1.4E+00		1.34E+00	100.0	9310_ALPHABETA	2.009E-01	L	11/24/2007 12:49	I
7292471	BETA	12587-47-2	8.18E+00	pCi/L	1.9E+00	2.1E+00		2.92E+00	100.0	9310_ALPHABETA	2.011E-01	L	11/27/2007 14:58	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J85CN10	B1PPK4		MW6-SBB-A1	A08-010	W05247					10/16/2007 10:22

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7292473	I-129L	15046-84-1	1.25E+00	pCi/L	3.0E-01	3.0E-01	U	5.33E-01	98.9	I129LL_SEP_LEPS	3.9264E+00	L	11/21/2007 21:55	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:
9J85CV10	B1PPK5		MW6-SBB-A1	A08-010	W05247					10/16/2007 08:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7292473	I-129L	15046-84-1	-3.84E-02	pCi/L	1.2E-01	1.2E-01	U	2.08E-01	96.5	I129LL_SEP_LEPS	3.8892E+00	L	11/21/2007 21:57	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:
9J85D710	B1PV00		MW6-SBB-A1	I08-002	W05247					10/16/2007 11:46

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7292469	ALPHA	12587-46-1	6.37E-01	pCi/L	8.1E-01	8.3E-01	U	1.54E+00	100.0	9310_ALPHABETA	1.99E-01	L	11/24/2007 12:49	I
7292471	BETA	12587-47-2	6.19E+01	pCi/L	3.9E+00	8.5E+00		2.91E+00	100.0	9310_ALPHABETA	2.00E-01	L	11/27/2007 14:58	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J85DV10	B1PV04		MW6-SBB-A1	I08-002	W05247					10/16/2007 10:12

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7292469	ALPHA	12587-46-1	2.45E+00	pCi/L	1.4E+00	1.5E+00		1.44E+00	100.0	9310_ALPHABETA	1.998E-01	L	11/24/2007 12:49	I
7292471	BETA	12587-47-2	1.61E+01	pCi/L	2.3E+00	3.4E+00		2.89E+00	100.0	9310_ALPHABETA	2.004E-01	L	11/27/2007 14:58	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J85E510	B1PW12		MW6-SBB-A1	S08-010	W05247					10/16/2007 10:12

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7292472	SR-90	10098-97-2	7.30E+00	pCi/L	5.5E-01	1.2E+00		4.54E-01	84.3	SRISO_SEP_PRE	1.0021E+00	L	11/25/2007 06:57	I

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

TAL Richland

rptFeadRadSummaryEdd v3.48

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

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 37875 File Name: h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.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:
9J85E910	B1PW10		MW6-SBB-A1	S08-010	W05247					10/16/2007 11:46

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7292472	SR-90	10098-97-2	3.25E+01	pCi/L	1.2E+00	4.9E+00		3.83E-01	82.9	SRISO_SEP_PRE	1.00E+00	L	11/25/2007 06:57	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:
9J85EF10	B1PV29		MW6-SBB-A1	I08-002	W05247					10/16/2007 13:28

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7292469	ALPHA	12587-46-1	2.64E+00	pCi/L	1.6E+00	1.7E+00		2.23E+00	100.0	9310_ALPHABETA	2.031E-01	L	11/24/2007 13:50	I
7292471	BETA	12587-47-2	4.47E+00	pCi/L	1.6E+00	1.7E+00		2.86E+00	100.0	9310_ALPHABETA	2.00E-01	L	11/27/2007 14:58	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J85GF10	B1PWP0		MW6-SBB-A1	W08-010	W05247					10/16/2007 13:35

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7292469	ALPHA	12587-46-1	1.38E+00	pCi/L	1.1E+00	1.2E+00	U	1.52E+00	100.0	9310_ALPHABETA	2.005E-01	L	11/24/2007 13:50	I
7292471	BETA	12587-47-2	7.63E+00	pCi/L	1.8E+00	2.1E+00		2.92E+00	100.0	9310_ALPHABETA	1.993E-01	L	11/27/2007 16:50	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J85GG10	B1PWP1		MW6-SBB-A1	W08-010	W05247					10/16/2007 13:35

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7292469	ALPHA	12587-46-1	1.57E+00	pCi/L	1.2E+00	1.2E+00	U	1.67E+00	100.0	9310_ALPHABETA	1.981E-01	L	11/24/2007 13:50	I
7292471	BETA	12587-47-2	9.70E+00	pCi/L	1.9E+00	2.3E+00		2.89E+00	100.0	9310_ALPHABETA	2.036E-01	L	11/27/2007 16:50	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J86WH30	B1PX80		MW6-SBB-A1	W08-010	W05247					10/16/2007 11:27

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7337235	TC-99	14133-76-7	3.06E+01	pCi/L	5.6E+00	8.1E+00		1.15E+01	100.0	TC99_SEP_LSC	1.251E-01	L	12/07/2007 05:35	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J8N9230	B1PX83		MW6-SBB-A1	W08-010	W05247					10/10/2007 10:22

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7337235	TC-99	14133-76-7	2.71E+01	pCi/L	5.4E+00	7.9E+00		1.14E+01	100.0	TC99_SEP_LSC	1.25E-01	L	12/07/2007 03:31	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J8NN810	B1PWV2		MW6-SBB-A1	W08-010	W05247					10/10/2007 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.

12/26/2007 11:51:18 AM

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 37875 File Name: h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7292469	ALPHA	12587-46-1	1.33E+00	pCi/L	1.3E+00	1.4E+00	U	2.34E+00	100.0	9310_ALPHABETA	2.006E-01	L	11/24/2007 10:45	I
7292471	BETA	12587-47-2	6.51E+00	pCi/L	1.7E+00	1.9E+00		2.78E+00	100.0	9310_ALPHABETA	1.991E-01	L	11/27/2007 13:12	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:
9J8NPD10	B1PWM8		MW6-SBB-A1	W08-010	W05247					10/10/2007 11:21

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7292469	ALPHA	12587-46-1	1.95E+00	pCi/L	1.4E+00	1.5E+00		1.66E+00	100.0	9310_ALPHABETA	2.007E-01	L	11/24/2007 10:45	I
7292471	BETA	12587-47-2	7.36E+00	pCi/L	1.8E+00	2.1E+00		3.01E+00	100.0	9310_ALPHABETA	2.014E-01	L	11/27/2007 14:58	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J8NPK10	B1PX14		MW6-SBB-A1	W08-010	W05247					10/10/2007 10:22

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7292469	ALPHA	12587-46-1	1.60E+00	pCi/L	1.2E+00	1.3E+00		1.54E+00	100.0	9310_ALPHABETA	2.004E-01	L	11/24/2007 10:45	I
7292471	BETA	12587-47-2	9.10E+00	pCi/L	1.9E+00	2.2E+00		2.79E+00	100.0	9310_ALPHABETA	2.002E-01	L	11/27/2007 14:58	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J8NPV10	B1PX02		MW6-SBB-A1	W08-010	W05247					10/10/2007 11:10

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7292469	ALPHA	12587-46-1	2.15E+00	pCi/L	1.5E+00	1.6E+00		2.05E+00	100.0	9310_ALPHABETA	1.764E-01	L	11/24/2007 10:45	I
7292471	BETA	12587-47-2	8.38E+00	pCi/L	1.8E+00	2.1E+00		2.75E+00	100.0	9310_ALPHABETA	1.999E-01	L	11/27/2007 14:58	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J8TH310	B1PTW3		MW6-SBB-A1	I08-002	W05247					10/11/2007 13:10

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7292469	ALPHA	12587-46-1	2.18E+00	pCi/L	1.3E+00	1.4E+00		1.28E+00	100.0	9310_ALPHABETA	1.988E-01	L	11/24/2007 11:47	I
7292471	BETA	12587-47-2	5.94E+00	pCi/L	1.7E+00	1.9E+00		2.76E+00	100.0	9310_ALPHABETA	2.013E-01	L	11/27/2007 14:58	I
7292476	C-14	14762-75-5	1.57E+02	pCi/L	7.1E+00	1.0E+01		8.60E+00	100.0	C14_LSC	2.00E-01	L	11/09/2007 14:48	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J8TH810	B1PV10		MW6-SBB-A1	I08-002	W05247					10/11/2007 09:56

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7292469	ALPHA	12587-46-1	9.13E-02	pCi/L	3.6E-01	3.6E-01	U	9.58E-01	100.0	9310_ALPHABETA	1.996E-01	L	11/24/2007 11:47	I
7292471	BETA	12587-47-2	-4.42E-01	pCi/L	1.1E+00	1.1E+00	U	2.52E+00	100.0	9310_ALPHABETA	2.03E-01	L	11/27/2007 14:58	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.

7292472	SR-90	10098-97-2	2.46E-01	pCi/L	3.0E-01	3.0E-01	U	6.14E-01	65.7	SRISO_SEP_PRE	1.0002E+00	L	11/25/2007	06:57	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:
9J8THM10	B1PTP5		MW6-SBB-A1	I08-002	W05247					10/11/2007 12:02

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7292472	SR-90	10098-97-2	4.04E-02	pCi/L	2.1E-01	2.1E-01	U	4.73E-01	75.7	SRISO_SEP_PRE	1.0052E+00	L	11/25/2007	06:57	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:
9J8THM20	B1PTP5		MW6-SBB-A1	I08-002	W05247					10/11/2007 12:02

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7330557	H-3	10028-17-8	3.26E+04	pCi/L	6.2E+02	1.4E+03		3.31E+02	100.0	906.0_H3_LSC	5.00E-03	L	11/27/2007	23:35	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9J8THP10	B1PTX7		MW6-SBB-A1	I08-002	W05247					10/11/2007 12:02

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7292469	ALPHA	12587-46-1	3.14E-01	pCi/L	9.7E-01	9.7E-01	U	2.38E+00	100.0	9310_ALPHABETA	1.927E-01	L	11/24/2007	11:47	I
7292471	BETA	12587-47-2	5.06E+00	pCi/L	1.6E+00	1.7E+00		2.67E+00	100.0	9310_ALPHABETA	2.031E-01	L	11/27/2007	14:58	I
7292475	BE-7	13966-02-4	-8.37E+00	pCi/L	1.4E+01	1.4E+01	U	2.32E+01		GAMMA_GS	2.5016E+00	L	11/21/2007	15:52	I
7292475	CO-60	10198-40-0	-5.65E-01	pCi/L	1.3E+00	1.3E+00	U	2.37E+00		GAMMA_GS	2.5016E+00	L	11/21/2007	15:52	I
7292475	CS-134	13967-70-9	-3.20E-01	pCi/L	1.2E+00	1.2E+00	U	2.17E+00		GAMMA_GS	2.5016E+00	L	11/21/2007	15:52	I
7292475	CS-137	10045-97-3	1.02E-01	pCi/L	1.1E+00	1.1E+00	U	2.03E+00		GAMMA_GS	2.5016E+00	L	11/21/2007	15:52	I
7292475	EU-152	14683-23-9	2.84E+00	pCi/L	3.0E+00	3.0E+00	U	5.61E+00		GAMMA_GS	2.5016E+00	L	11/21/2007	15:52	I
7292475	EU-154	15585-10-1	4.96E-01	pCi/L	2.6E+00	2.6E+00	U	5.35E+00		GAMMA_GS	2.5016E+00	L	11/21/2007	15:52	I
7292475	EU-155	14391-16-3	2.37E-01	pCi/L	2.0E+00	2.0E+00	U	3.46E+00		GAMMA_GS	2.5016E+00	L	11/21/2007	15:52	I
7292475	K-40	13966-00-2	5.56E+00	pCi/L	1.8E+01	1.8E+01	U	3.50E+01		GAMMA_GS	2.5016E+00	L	11/21/2007	15:52	I
7292475	RU-106	13967-48-1	-5.09E-01	pCi/L	1.1E+01	1.1E+01	U	1.89E+01		GAMMA_GS	2.5016E+00	L	11/21/2007	15:52	I
7292475	SB-125	14234-35-6	4.20E-01	pCi/L	2.6E+00	2.6E+00	U	4.85E+00		GAMMA_GS	2.5016E+00	L	11/21/2007	15:52	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:
9J8THW10	B1PV09		MW6-SBB-A1	I08-002	W05247					10/11/2007 11:02

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
7292469	ALPHA	12587-46-1	1.37E+00	pCi/L	1.1E+00	1.2E+00	U	1.51E+00	100.0	9310_ALPHABETA	1.746E-01	L	11/24/2007	11:47	I
7292471	BETA	12587-47-2	9.74E+00	pCi/L	2.0E+00	2.3E+00		2.86E+00	100.0	9310_ALPHABETA	1.872E-01	L	11/27/2007	14:58	I
7292472	SR-90	10098-97-2	4.98E-01	pCi/L	2.4E-01	2.5E-01		4.30E-01	82.3	SRISO_SEP_PRE	1.0041E+00	L	11/25/2007	06:57	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.

12/26/2007 11:51:18 AM

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 37875 File Name: h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.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:
9J8TJD10	B1PTV9		MW6-SBB-A1	I08-002	W05247					10/11/2007 09:38

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7292469	ALPHA	12587-46-1	2.82E+00	pCi/L	1.8E+00	1.9E+00		2.57E+00	100.0	9310_ALPHABETA	1.794E-01	L	11/24/2007 12:49	I
7292471	BETA	12587-47-2	5.71E+00	pCi/L	2.0E+00	2.2E+00		3.59E+00	100.0	9310_ALPHABETA	1.578E-01	L	11/27/2007 14:58	I

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

Wednesday, December 26, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Lab Sample Id:	J9E951AB	**Sdg/Rept Nbr:**	W05247 37875	**Collection Date:**	10/16/2007 13:35
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	10/16/2007

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
7292469	ALPHA	-2.07E-01	pCi/L	3.2E-01	U	1.24E+00	100.0		9310_ALPHAB	2.006E-01	11/25/2007				D
BLK	12587-46-1			3.2E-01						L	06:41				

TAL Richland
rptFeadRadEdd v3.68

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

Wednesday, December 26, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Lab Sample Id:	J9FA31AB	**Sdg/Rept Nbr:**	W05247 37875	**Collection Date:**	10/16/2007 10:12
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	10/16/2007

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
7292472	SR-90	-9.92E-02	pCi/L	2.2E-01	U	5.20E-01	69.4		SRISO_SEP_P	1.0002E+00	11/25/2007				D
BLK	10098-97-2			1.7E-01						L	06:57				

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

Wednesday, December 26, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Lab Sample Id: J9FA91AB **Sdg/Rept Nbr:** W05247 37875 **Collection Date:** 10/16/2007 10:22

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 10/16/2007

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
7292473	I-129L	-5.18E-02	pCi/L	1.3E-01	U	2.19E-01	99.2		I129LL_SEP_L	3.922E+00	11/22/2007				D
BLK	15046-84-1			1.3E-01						L	05:52				

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, December 26, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Lab Sample Id:	J9FAQ1AB	**Sdg/Rept Nbr:**	W05247 37875	**Collection Date:**	10/16/2007 13:35
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	10/16/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7292471	BETA	1.86E-01	pCi/L	1.2E+00	U	2.67E+00	100.0		9310_ALPHAB	2.012E-01	11/27/2007				D
BLK	12587-47-2			1.2E+00						L	16:50				

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, December 26, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Lab Sample Id:	J9FC32AB	**Sdg/Rept Nbr:**	W05247 37875	**Collection Date:**	10/11/2007 12:02
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	10/11/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7330557	H-3	-2.96E+01	pCi/L	1.5E+02	U	3.31E+02	100.0		906.0_H3_LSC	5.00E-03	11/27/2007				D
BLK	10028-17-8			1.3E+02						L	18:05				

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, December 26, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Lab Sample Id: J9FC32DX **Sdg/Rept Nbr:** W05247 37875 **Collection Date:** 10/11/2007 12:02

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 10/11/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7330557	H-3	-3.47E+01	pCi/L	1.5E+02	U	3.42E+02	100.0		906.0_H3_LSC	5.00E-03	11/27/2007				D
BLK	10028-17-8			1.4E+02						L	20:50				

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, December 26, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Lab Sample Id: J9FCM3AB **Sdg/Rept Nbr:** W05247 37875 **Collection Date:** 10/16/2007 11:27

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 10/16/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7337235	TC-99	1.23E+01	pCi/L	7.0E+00		1.07E+01	100.0		TC99_SEP_LS	1.25E-01	12/07/2007				D
BLK	14133-76-7			4.8E+00						L	07:41				

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

Wednesday, December 26, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Lab Sample Id:	J9FCT1AB	**Sdg/Rept Nbr:**	W05247	37875	**Collection Date:** 10/11/2007 12:02
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 10/11/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7292475	BE-7	1.25E+01	pCi/L	1.6E+01	U	3.05E+01			GAMMA_GS	2.5015E+00	11/21/2007				D
BLK	13966-02-4			1.6E+01						L	15:53				
7292475	CO-60	-3.68E-01	pCi/L	1.4E+00	U	2.53E+00			GAMMA_GS	2.5015E+00	11/21/2007				D
BLK	10198-40-0			1.4E+00						L	15:53				
7292475	CS-134	5.94E-01	pCi/L	1.5E+00	U	2.79E+00			GAMMA_GS	2.5015E+00	11/21/2007				D
BLK	13967-70-9			1.5E+00						L	15:53				
7292475	CS-137	-2.86E-01	pCi/L	1.4E+00	U	2.39E+00			GAMMA_GS	2.5015E+00	11/21/2007				D
BLK	10045-97-3			1.4E+00						L	15:53				
7292475	EU-152	-1.44E+00	pCi/L	2.7E+00	U	4.61E+00			GAMMA_GS	2.5015E+00	11/21/2007				D
BLK	14683-23-9			2.7E+00						L	15:53				
7292475	EU-154	1.16E+00	pCi/L	3.6E+00	U	7.10E+00			GAMMA_GS	2.5015E+00	11/21/2007				D
BLK	15585-10-1			3.6E+00						L	15:53				
7292475	EU-155	2.50E-02	pCi/L	1.9E+00	U	3.36E+00			GAMMA_GS	2.5015E+00	11/21/2007				D
BLK	14391-16-3			1.9E+00						L	15:53				
7292475	K-40	-2.31E+01	pCi/L	3.1E+01	U	5.89E+01			GAMMA_GS	2.5015E+00	11/21/2007				D
BLK	13966-00-2			3.1E+01						L	15:53				
7292475	RU-106	2.44E+00	pCi/L	1.3E+01	U	2.36E+01			GAMMA_GS	2.5015E+00	11/21/2007				D
BLK	13967-48-1			1.3E+01						L	15:53				
7292475	SB-125	2.48E+00	pCi/L	3.2E+00	U	6.03E+00			GAMMA_GS	2.5015E+00	11/21/2007				D
BLK	14234-35-6			3.2E+00						L	15:53				

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, December 26, 2007

TAL Richland QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Lab Sample Id:	J9FCX1AB	**Sdg/Rept Nbr:**	W05247	37875	**Collection Date:** 10/11/2007 13:10
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 10/11/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7292476	C-14	-1.58E+00	pCi/L	7.0E+00	U	8.55E+00	100.0		C14_LSC	2.00E-01	11/09/2007				D
BLK	14762-75-5			3.5E+00						L	13:23				

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, December 26, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Lab Sample Id: J9E951CS **Sdg/Rept Nbr:** W05247 37875 **Collection Date:** 10/16/2007 13:35

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 10/16/2007

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
7292469	ALPHA	1.79E+01	pCi/L	4.9E+00		6.89E-01	100.0	2.23E+01	9310_ALPHAB	2.03E-01	11/25/2007			70	D
BS	12587-46-1			2.7E+00				80.2		L	06:41			130	

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

Wednesday, December 26, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Lab Sample Id:	J9FA31CS	**Sdg/Rept Nbr:**	W05247 37875	**Collection Date:**	10/16/2007 10:12
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	10/16/2007

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
7292472	SR-90	1.46E+01	pCi/L	2.3E+00		5.13E-01	67.6	1.36E+01	SRISO_SEP_P	1.0011E+00	11/25/2007			70	D
BS	10098-97-2			8.8E-01				107.4		L	06:57			130	

TAL Richland
rptFeadRadEdd v3.68

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

Wednesday, December 26, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Lab Sample Id: J9FA91CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05247 37875
Matrix: WATER WATER
QC Type: BS

Collection Date: 10/16/2007 10:22
Sample On Date:
Received Date: 10/16/2007

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
7292473	I-129L	9.20E+00	pCi/L	1.2E+00		3.51E-01	97.7	9.79E+00	I129LL_SEP_L	3.8638E+00	11/22/2007			70	D
BS	15046-84-1			1.2E+00				94.0		L	05:52			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, December 26, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Lab Sample Id:	J9FAQ1CS	**Sdg/Rept Nbr:**	W05247	37875	**Collection Date:** 10/16/2007 13:35
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**BS**		**Received Date:** 10/16/2007

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
7292471	BETA	2.16E+01	pCi/L	3.6E+00		2.35E+00	100.0	2.23E+01	9310_ALPHAB	2.017E-01	11/27/2007			70	D
BS	12587-47-2			2.3E+00				97.1		L	16:50			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, December 26, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Lab Sample Id:	J9FC32CS	**Sdg/Rept Nbr:**	W05247 37875	**Collection Date:**	10/11/2007 12:02
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	10/11/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7330557	H-3	2.42E+03	pCi/L	2.6E+02		3.31E+02	100.0	2.73E+03	906.0_H3_LSC	5.00E-03	11/27/2007			70	D
BS	10028-17-8			2.1E+02				88.8		L	19:27			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, December 26, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Lab Sample Id:	J9FC32EM	**Sdg/Rept Nbr:**	W05247	37875	**Collection Date:** 10/11/2007 12:02
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 10/11/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7330557	H-3	2.42E+03	pCi/L	2.6E+02		3.32E+02	100.0	2.73E+03	906.0_H3_LSC	5.00E-03	11/27/2007			70	D
BS	10028-17-8			2.1E+02				88.8		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.

Wednesday, December 26, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Lab Sample Id:	J9FCM3CS	**Sdg/Rept Nbr:**	W05247	37875	**Collection Date:** 10/16/2007 11:27
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 10/16/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7337235	TC-99	5.03E+02	pCi/L	3.6E+01		1.15E+01	100.0	5.41E+02	TC99_SEP_LS	1.251E-01	12/07/2007			70	D
BS	14133-76-7			1.4E+01				93.0		L	08:43			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, December 26, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Lab Sample Id:	J9FCT1CS	**Sdg/Rept Nbr:**	W05247 37875	**Collection Date:**	10/11/2007 12:02
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	10/11/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7292475	CO-60	3.58E+01	pCi/L	6.7E+00		2.41E+00		3.06E+01	GAMMA_GS	2.4995E+00	11/21/2007			75	D
BS	10198-40-0			6.7E+00				116.9		L	15:54			125	
7292475	CS-137	4.09E+01	pCi/L	6.8E+00		3.04E+00		3.95E+01	GAMMA_GS	2.4995E+00	11/21/2007			70	D
BS	10045-97-3			6.8E+00				103.7		L	15:54			130	
7292475	EU-152	5.97E+01	pCi/L	1.3E+01		7.76E+00		6.12E+01	GAMMA_GS	2.4995E+00	11/21/2007			70	D
BS	14683-23-9			1.3E+01				97.6		L	15:54			130	

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

Wednesday, December 26, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Lab Sample Id: J9FCX1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05247 37875
Matrix: WATER WATER
QC Type: BS

Collection Date: 10/11/2007 13:10
Sample On Date:
Received Date: 10/11/2007

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7292476	C-14	4.27E+01	pCi/L	7.9E+00		8.59E+00	100.0	4.62E+01	C14_LSC	2.00E-01	11/09/2007			70	D
BS	14762-75-5			4.8E+00				92.5		L	14:05			130	

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

Wednesday, December 26, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Lab Sample Id: J85CN1CR
Client Id: B1PPK4
Moisture/Solids%*:

Sdg/Rept Nbr: W05247 37875
Matrix: WATER WATER
QC Type: DUP

Collection Date: 10/16/2007 10:22
Sample On Date:
Received Date: 10/16/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A08-010	MW6-SBB-A19981								AX	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7292473	I-129L	1.63E+00	pCi/L	4.2E-01	U	6.25E-01	99.7		I129LL_SEP_L	3.9248E+00	11/21/2007	26.1	1.3		D
DUP	15046-84-1	1.25E+00		4.2E-01						L	21:56	20.0	3		

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

Wednesday, December 26, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Lab Sample Id:	J85E51CR	**Sdg/Rept Nbr:**	W05247	37875	**Collection Date:** 10/16/2007 10:12
Client Id:	B1PW12	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 10/16/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-010	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
7292472	SR-90	7.64E+00	pCi/L	1.3E+00		4.79E-01	77.7		SRISO_SEP_P	1.0014E+00	11/25/2007	4.5	0.4		D
DUP	10098-97-2	7.30E+00		6.0E-01						L	06:57	20.0	3		

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

Wednesday, December 26, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Lab Sample Id:	J85GF1DR	**Sdg/Rept Nbr:**	W05247 37875	**Collection Date:**	10/16/2007 13:35
Client Id:	B1PWP0	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	10/16/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W08-010	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
7292469	ALPHA	1.71E+00	pCi/L	1.3E+00		1.46E+00	100.0		9310_ALPHAB	2.018E-01	11/24/2007	21.3	0.4		D
DUP	12587-46-1	1.38E+00		1.2E+00						L	13:50	20.0	3		

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

Wednesday, December 26, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Lab Sample Id: J85GF1ER **Sdg/Rept Nbr:** W05247 37875 **Collection Date:** 10/16/2007 13:35

Client Id: B1PWP0 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 10/16/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W08-010	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
7292471	BETA	5.41E+00	pCi/L	1.9E+00		2.88E+00	100.0		9310_ALPHAB	1.97E-01	11/27/2007	34.1	1.7		D
DUP	12587-47-2	7.63E+00		1.7E+00						L	16:50	20.0	3		

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

Wednesday, December 26, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Lab Sample Id:	J86WH3CR	**Sdg/Rept Nbr:**	W05247	37875	**Collection Date:** 10/16/2007 11:27
Client Id:	B1PX80	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 10/16/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W08-010	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
7337235	TC-99	5.77E+01	pCi/L	1.0E+01		1.39E+01	100.0		TC99_SEP_LS	1.249E-01	12/07/2007	61.5	3.8		D
DUP	14133-76-7	3.06E+01		7.0E+00						L	06:38	20.0	3		

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

Wednesday, December 26, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Lab Sample Id:	J8TH31ER	**Sdg/Rept Nbr:**	W05247 37875	**Collection Date:**	10/11/2007 13:10
Client Id:	B1PTW3	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	10/11/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-002	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
7292476	C-14	1.77E+02	pCi/L	1.1E+01		8.60E+00	100.0		C14_LSC	2.00E-01	11/09/2007	12.3	2.6		D
DUP	14762-75-5	1.57E+02		7.5E+00						L	15:30	20.0	3		

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

Wednesday, December 26, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Lab Sample Id:	J8THM2HR	**Sdg/Rept Nbr:**	W05247 37875	**Collection Date:**	10/11/2007 12:02
Client Id:	B1PTP5	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	10/11/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-002	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
7330557	H-3	3.11E+04	pCi/L	1.3E+03		3.30E+02	100.0		906.0_H3_LSC	5.00E-03	11/28/2007	4.7	1.6		D
DUP	10028-17-8	3.26E+04		6.0E+02						L	00:57	20.0	3		

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

Wednesday, December 26, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Lab Sample Id:	J8THP1ER	**Sdg/Rept Nbr:**	W05247 37875	**Collection Date:**	10/11/2007 12:02
Client Id:	B1PTX7	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	10/11/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-002	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
7292475	BE-7	1.51E+01	pCi/L	1.6E+01	U	2.97E+01			GAMMA_GS	2.5016E+00	11/21/2007	696.1	2.1		D
DUP	13966-02-4	-8.37E+00		1.6E+01						L	22:06	20.0	3		
7292475	CO-60	7.53E-01	pCi/L	1.6E+00	U	3.07E+00			GAMMA_GS	2.5016E+00	11/21/2007	1406.9	1.2		D
DUP	10198-40-0	-5.65E-01		1.6E+00						L	22:06	20.0	3		
7292475	CS-134	3.71E-01	pCi/L	1.6E+00	U	2.92E+00			GAMMA_GS	2.5016E+00	11/21/2007	2711.4	0.6		D
DUP	13967-70-9	-3.20E-01		1.6E+00						L	22:06	20.0	3		
7292475	CS-137	-5.78E-01	pCi/L	1.3E+00	U	2.26E+00			GAMMA_GS	2.5016E+00	11/21/2007	0.0	0.7		D
DUP	10045-97-3	1.02E-01		1.3E+00						L	22:06	20.0	3		
7292475	EU-152	1.10E+00	pCi/L	3.4E+00	U	5.30E+00			GAMMA_GS	2.5016E+00	11/21/2007	88.2	0.7		D
DUP	14683-23-9	2.84E+00		3.4E+00						L	22:06	20.0	3		
7292475	EU-154	-3.14E+00	pCi/L	4.1E+00	U	6.59E+00			GAMMA_GS	2.5016E+00	11/21/2007	0.0	1.3		D
DUP	15585-10-1	4.96E-01		4.1E+00						L	22:06	20.0	3		
7292475	EU-155	-2.43E-01	pCi/L	1.9E+00	U	3.40E+00			GAMMA_GS	2.5016E+00	11/21/2007	0.0	0.4		D
DUP	14391-16-3	2.37E-01		1.9E+00						L	22:06	20.0	3		
7292475	K-40	-2.13E+01	pCi/L	3.0E+01	U	5.78E+01			GAMMA_GS	2.5016E+00	11/21/2007	0.0	1.3		D
DUP	13966-00-2	5.56E+00		3.0E+01						L	22:06	20.0	3		
7292475	RU-106	-3.10E+00	pCi/L	1.2E+01	U	2.07E+01			GAMMA_GS	2.5016E+00	11/21/2007	0.0	0.3		D
DUP	13967-48-1	-5.09E-01		1.2E+01						L	22:06	20.0	3		
7292475	SB-125	-4.68E-02	pCi/L	3.2E+00	U	5.75E+00			GAMMA_GS	2.5016E+00	11/21/2007	250.2	0.2		D
DUP	14234-35-6	4.20E-01		3.2E+00						L	22:06	20.0	3		

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

Wednesday, December 26, 2007

TAL Richland Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05247.Edd, h:\Reportdb\edd\FeadIV\Rad\37875.Edd

Lab Sample Id: J8N923CW **Sdg/Rept Nbr:** W05247 37875 **Collection Date:** 10/10/2007 10:22

Client Id: B1PX83 **Matrix:** WATER WATER **Sample On Date:**

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

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W08-010	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
7337235	TC-99	2.62E+03	pCi/L	1.6E+02		1.15E+01	100.0	3.61E+03	TC99_SEP_LS	1.251E-01	12/07/2007			60	D
MS	14133-76-7			3.0E+01				72.5		L	04:33			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.

TestAmerica

TA Richland
Hexavalent Chromium - Water

Analyst:	S. Wheland	Calibration Curve Information				SOP Information		BATCH #	7285312
Start Date:	10/12/2007		Amount	Conc.(mg/L)	ABS.	RICH-WC-5003		SDG #	
Start Time:		Blank	0.000	0.000	0.000	Revision 7		Matrix	Water
End Date:	10/12/2007	Std. 1	0.100	0.050	0.102				
End Time		Std. 2	0.500	0.250	0.492			Instrument Information	
		Std. 3	0.750	0.375	0.733	MDL (mg/L)	0.002	Instrument:	Hach DR2010
Analyst Signature:	Shawn E. Wheland	Std. 4	1.500	0.750	1.443			Wavelength:	540
		Std 5	2.000	1.000	1.909			R Squared	0.99991
Date:	10/12/07	Standard Volume (mL):			100.000			Slope:	1.90747
		Date of Curve:			10/12/2007			Intercept:	0.00890

	Calibration Information:	ICV Information:		LCS Information:		Matrix Spike Information:	
Dilution ID #	Cr-07-0119	Cr-07-0120		Cr-07-0119		Cr-07-0119	
Prep Date:	10/12/07	10/12/07		10/12/07		10/12/07	
Concentration (mg/L)	50	50		50		50	
Expiration Date:	10/13/07	10/13/07		10/13/07		10/13/07	
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	0.943	0.000	0.943	1	0.4897	0.490	97.94%
n/a	n/a	ICB	100.000	0.000	0.000	0.000	1	<MDL	<MDL	
J8TJ4-1AA-B	n/a	Prep Blank	100.000	0.004		0.004	1	-0.0026	<MDL	
J8TJ4-1AC-C	n/a	LCS	100.000	0.978		0.978	1	0.5081	0.508	101.61%
J8THM-1AA	B1PTP5	Sample	100.000	0.281		0.281	1	0.1427	0.143	
J8THM-1AE-S	B1PTP5-MS	MS	100.000	0.790		0.790	1	0.4095	~~0.409~~ 0.266	101.40%
J8THM-1AF-D	B1PTP5-MSD	MSD	100.000	0.793		0.793	1	0.4111	~~0.411~~ 0.268	102.00%
J8THM-1AE-X	B1PTP5-DUP	Duplicate	100.000	0.284		0.284	1	0.1442	0.144	
G	SES 10/10/07		100.000				1			
			100.000				1			
			100.000				1			
n/a	n/a	CCV	100.000	0.943		0.943	1	0.4897	0.490	97.94%
n/a	n/a	CCB	100.000	0.001		0.001	1	-0.0041	<MDL	
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			

TESTAMERICA RICHLAND 42

RADIOCHEMISTRY, First Level Review

Lot No., Due Date:	J7J170133,J7J170140,J7J170146,J7J110118,J7J120175; 11/30/2007
Client, Site:	384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test:	7292469; RALPHA-A Alpha by GPC-Am
SDG, Matrix:	W05247; 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 Mirna E. Ahlquist Date 11/26/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7292469
W05247

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

Comments on any "No" response: _____

Second Level Review: Sheryl R Adam Date: 11-26-07

Lot No., Due Date:	J7J170133,J7J170140,J7J170146,J7J110118,J7J120175; 11/30/2007
Client, Site:	384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test:	7292471; RBETA-SR Beta by GPC-Sr/Y
SDG, Matrix:	W05247; WATER

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

6.0 Comments on any No response:

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7292471
W05247

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

Comments on any "No" response: _____

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

RADIOCHEMISTRY, First Level Review

Lot No., Due Date:	J7J170142,J7J120175; 11/30/2007
Client, Site:	384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test:	7292472; RSR85907 Sr-85/90 by GPC-7
SDG, Matrix:	W05247; WATER

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

6.0 Comments on any No response:

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7292472
W05247

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

Comments on any "No" response: _____

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

Lot No., Due Date: J7J120175; 11/30/2007
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 7292475; RGAMMA Gamma by GER
SDG, Matrix: W05247; WATER

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

6.0 Comments on any No response:

First Level Review Steven E Whitehead **Date** 11/26/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7292475
W0E247

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

Comments on any "No" response: _____

Second Level Review: Sheryl A Adam Date: 11-27-07

Lot No., Due Date: J7J170134; 11/30/2007
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 7292473; RGAMLEPS Gamma by LEPS
SDG, Matrix: W05247; WATER

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 11/27/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7292473
W05247

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

Comments on any "No" response: _____

Second Level Review: Sheryl A. Allen Date: 11-28-07

Lot No., Due Date: J7J170133,J7J110118; 11/30/2007
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 7337235; RTC99 Tc-99 by LSC
SDG, Matrix: W05247; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used OK	✓		
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. RPD > UCL : 20.0=> J86WH3AC TC-99 61.0 (RPD)		✓	
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. OK	✓		
8.17 Tracer within Control Limits. No Tracers found in Batch!			✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!			✓
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc_IDL Not Calculated	✓		
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => TC-99 OK; No Callin Level Found => TC-99	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

8.27 Correct Count Library Used. Yes No N/A ✓
No Count Library found in Batch Data!

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

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

8.3 Comments: NCM ID-11499

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

First Level Review Lisa Antonson Date 12/18/07

Clouseau
Nonconformance Memo

TestAmerica

NCM #:	**10-11499**		
NCM Initiated By:	Lisa Antonson	Classification:	**Anomaly**
Date Opened:	12/18/2007	Status:	**PMREVIEW**
Date Closed:		Production Area:	Environmental - Prep
		Tests:	Tc-99 by LSC
		Lot #'s (Sample #'s):	J7J110118 (5), J7J170133 (2), J7J190000 (474),
		QC Batches:	7292474,
Nonconformance:	LCS result out of limits		
Subcategory:	Analyte was recovered low in the LCS		

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	12/18/2007	The LCS was recovered low in this batch. A recount confirmed the low recovery. The batch was rerun in batch 7337235. The duplicates were out of agreement. The dups were recounted, but the TSIE was out on the duplicate, and could not be calculated.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	12/18/2007	The original batch was rerun. When the TSIE was out, the client was contacted. They agreed to accept the results with the dups out of agreement.

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

STL RICHLAND ISSUE RESOLUTION FORM
FOR CONTRACT 615 WITH BHI/FH/PNNL

IRF Tracking No.: 07-125
SAF No.: W08-010
Date: December 12, 2007
SDG: W05247
Sample No.(s) B1PX80 DUP

Submitted By: Sandra Seger

Phone No. 509-375-3131 x158
Fax No. 509-375-5590

Submitted To: **Steve Trent (FH)**

Phone No. **509-373-5869**
Fax No. 866-252-5816

ISSUE	PROPOSED RESOLUTION
The TSIE is out of limits on the Tc-99 duplicate. It is suspected that more acid was added to the duplicate then the sample.	Report duplicate result.

BHI/FH/PNNL COMMENTS -

Accept proposed resolution.

Heidi Hampt 12/18/07
Signature and date

Seger, Sandra

From: Hampt, Heidi [Heidi_Hampt@RL.gov]
Sent: Tuesday, December 18, 2007 10:10 AM
To: Seger, Sandra
Cc: Trent, Stephen J; Anastos, Heather L
Subject: RE: IRF W05247.PDF
Attachments: 07-125.DOC

Sandra,

Thanks for the new file. The response is attached.

Heidi

From: Seger, Sandra [mailto:Sandra.Seger@testamericainc.com]
Sent: Tuesday, December 18, 2007 7:42 AM
To: Hampt, Heidi
Cc: Felmy, Diana; Trent, Stephen J
Subject: FW: IRF W05247.PDF

Heidi,

We had some email problems last week. I'm just making sure you received this IRF on Friday.

Thanks,
Sandra

From: Seger, Sandra
Sent: Friday, December 14, 2007 7:26 AM
To: Hampt, Heidi
Cc: 'Felmy, Diana'; Trent, Stephen J
Subject: IRF W05247.PDF

<<IRF W05247.PDF>>

Confidentiality Notice: The information contained in this message is intended only for the use of the addressee, and may be confidential and/or privileged. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately.

Lot No., Due Date: J7J120175; 11/30/2007
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 7330557; RTRITIUM H-3 by LSC
SDG, Matrix: W05247; 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:
Batch recounted due to low LCS. Recounts OK - NCM

First Level Review Steven E. Mikelson **Date** 11/28/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7330557
W05247

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

Comments on any "No" response: See NCM

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

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

Clouseau
Nonconformance Memo

TestAmerica

NCM #:	10-11336		
NCM Initiated By:	Steven Wheland	Classification:	**Anomaly**
Date Opened:	11/28/2007	Status:	**GLREVIEW**
Date Closed:		Production Area:	Environmental - Prep
		Tests:	H-3 by LSC
		Lot #'s (Sample #'s):	J7J120175 (1), J7J190000 (477),
		QC Batches:	7330557,
Nonconformance:	LCS result out of limits		
Subcategory:	Other (explanation required)		

Problem Description / Root Cause

Name	Date	Description
Steven Wheland	11/28/2007	The LCS was low after the first count, However it was acceptable upon recounting the entire batch.

Corrective Action

Name	Date	Corrective Action
Steven Wheland	11/28/2007	report data

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 11/28/2007

RADIOCHEMISTRY, First Level Review

Lot No., Due Date: J7J120175; 11/30/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7292476; RC14 C-14 by LSC

SDG, Matrix: W05247; 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 Steven E. Richland **Date** 11/23/07

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 7292476
W05247

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

Comments on any "No" response: _____

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

SEVERN TRENT STL

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): **7285312**

Lab Sample Numbers or WC5347

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: [illegible] Date: 10/12//2007

Second-Level Review: Sandra Segar Date: 12/26/07

TESTAMERICA RICHLAND

65

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J110118 W05247 DUE 11-23-07 J8NN8

C.O.C. # W08-010-148

Collector: Roy Shepard, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-010	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA OCTOBER 2007	HNF-N-506-12 pg 4	Ice Chest No.: SAWS-118 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: RCRA	Priority: 45 Days	Offsite Property No.: N/A

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PWV2		W	10/10/07	0928	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1PWV2		W	10/10/07	0928	1x20-mL P	Activity Scan	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Roy Shepard, Fluor Hanford			10/10/07 1340	Steve Overdahl, Fluor Hanford			OCT 10 2007 1340
Steve Overdahl, Fluor Hanford			OCT 10 2007 1455	S. Smith		S. Smith	OCT 10 2007 1455
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

66

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W08-010-124
	J7J110118 W05247 DUE 11-23-07 J8NPD	Page 1 of 1

Collector: ~~Roy Shepard~~ Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-010	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA OCTOBER 2007	HNF-N-506-12 pg 4	Ice Chest No.: SAWS-118 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: RCRA	Priority: 45 Days	Offsite Property No.: N/A

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PWM8		W	10/10/07	1121	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1PWM8		W	10/10/07	1121	1x20-mL P	Activity Scan	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
~~Roy Shepard~~ Fluor Hanford			10/10/07 ~~1430~~ 1340 RAB	Steve Overdahl Fluor Hanford			OCT 10 2007 1340
Steve Overdahl Fluor Hanford			OCT 10 2007 1455	S. Smith		S. Smith	OCT 10 2007 1455
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

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W08-010-200
	J7J110118 W05247 DUE 11-23-07 J8NPK	Page 1 of 1

Collector: Steve Overdahl, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-010	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, OCTOBER 2007	HNF-N-506-5	Ice Chest No. 595 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PX14		W	101007	1022	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2) J8NPK	HNO3 to pH <2
B1PX14		W	↓	↓	1x20-mL P	Activity Scan SKS 12/25/07	None
B1PX83		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1) J8N92	HCl to pH <2

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Steve Overdahl, Fluor Hanford — OCT 10 2007	1455	S. Smith — OCT 10 2007	1455
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

68

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W08-010-180
	J7J110118 W05247 DUE 11-23-07 J8NPV	Page 1 of 1

Collector: Steve Overdahl, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-010	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA OCTOBER 2007	HNF-N-506-5	Ice Chest No.: 595 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PX02		W	101007	11/0	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1PX02		W	✓	✓	1x20-mL P	Activity Scan	None

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Steve Overdahl, Fluor Hanford	OCT 10 2007 1450	S. Smith	OCT 10 2007 1455
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

DUE 11-23-07

Date/Time Received: 10·10·07 1455

Client: PGW SDG #: W052437 RH NA[ ] SAF #: W08-010 NA [ ]

Work Order Number: J7J ~~100380~~ 110118 RH Chain of Custody # W08-010-148,-124,-200,-180

Shipping Container ID: _____ Air Bill # _____

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

Sample Custodian: L. Smith Date: 10·10·07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TESTAMERICA RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST JJJ120175 W05247 Due 11.26.07	C.O.C. # I08-002-94 Page 1 of 1

Collector: Steve Overdahl, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I08-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100KR4IAM(1/2), OCTOBER 2007	HNF-N-506-5	Ice Chest No.: 595 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PTP5		W	10/1/07	1202	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	Cool~4C
B1PTP5		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1PTP5		W			1x20-mL P	Activity Scan	None
B1PTP5		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1) J8THM	HNO3 to pH <2
B1PTX7		W			1x20-mL P	Activity Scan	None
B1PTX7		W			3x1000-mL G/P	GAMMA_GS: List-1 (10)	HNO3 to pH <2
B1PTX7		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2) J8THP	HNO3 to pH <2

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Steve Overdahl, Fluor Hanford	OCT 11 2007 1505	LNLANE TAL-R	OCT 11 2007 1505
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

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST JJJ130175 W05247 Due 11.26.07	C.O.C. # I08-002-130 Page 1 of 1

Collector Steve Overdahl Fluor Hanford	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. I08-002	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 100KR4IAM(1/2), OCTOBER 2007	HNF-N-506-5	Ice Chest No. 595 Temp.
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol CERCLA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PV09		W	10/1/07	1102	1x20-mL P	Activity Scan	None
B1PV09		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1PV09		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2) JSTHW	HNO3 to pH <2

Relinquished By	Date/Time	Received By	Date/Time
Print: Steve Overdahl Sign: Fluor Hanford OCT 1 1 2007	1505	Print: LJLANE Sign: TAL-R OCT 1 1 2007	1505

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

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST JJJ120175 W05247 Due 11-26-07	C.O.C. # I08-002-28 Page 1 of 1

Collector Steve Overdahl Fluor Hanford	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. 108-002	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 100KR4IAM(1/2), OCTOBER 2007	HNF-N-506-5	Ice Chest No. 595 Temp.
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol CERCLA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PTW3		W	101107	1310	1x20-mL P	Activity Scan	None
B1PTW3		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1PTW3		W	↓	↓	2x1000-mL G/P	C14_LSC: C-14 (1) J8TH3	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Steve Overdahl Fluor Hanford			OCT 11 2007 1505		W LANE	TAL-R	OCT 11 2007 1505
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

72

FLUOR HANFORD X

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J120175 W05247 Due 11-26-07

C.O.C. # I08-002-131

Page 1 of 1

Collector: Steve Overdahl, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I08-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100KR4IAM(1/2) OCTOBER 2007	HNF-N-506-5	Ice Chest No.: 595 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PV10		W	101107	0956	1x20-mL P	Activity Scan	None
B1PV10		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1PV10		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						J8TH8	

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Steve Overdahl, Fluor Hanford	OCT 11 2007 1505	LJ LANE TAL-R	OCT 11 2007 1505
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, SE = Sediment, SO = Solid, SL = Sludge, W = Water, O = Oil, A = Air, DS = Drum Solid, DL = Drum Liqui, T = Tissue, WI = Wine, L = Liquid, V = Vegetation, X = Other

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

TESTAMERICA RICHLAND

73

TESTAMERICA RICHLAND

74

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST JTJ120175 W05247 Due 11-26-07	C.O.C. # I08-002-22 Page 1 of 1

Collector: Steve Overdahl, ~~Fluor Hanford~~	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I08-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100KR4JAM(1/2) OCTOBER 2007	HNF-N-506-5	Ice Chest No.: 595 Temp.
Shipped To (Lab): TestAmerica Incorporated Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PTV9		W	101107	0938	1x20-mL P	Activity Scan	None
B1PTV9		W	✓	✓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						J8TJD	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Steve Overdahl, Fluor Hanford			OCT 11 2007 1505		LILANE TALR		OCT 11 2007 1505
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
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10-11-07 1505

Client: PGW SDG #: W05247 NA[ ] SAF #: I08-002 NA [ ]

Work Order Number: J7J120175 Chain of Custody # I08-002-94,-130,-28,-131,-22

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: 6
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ___ Tape
   - ✓ Custody Seals
   - ___ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ___ Broken
   - ___ Leaking
   - ___ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 10-11-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TESTAMERICA RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W08-010-172
	JTJ170133 W05247 Due 11.30.07	Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-010	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA OCTOBER 2007	HNF-N-506-5 Rg. 49	Ice Chest No.: GW-1 Temp.
Shipped To (Lab): TestAmerica Incorporated Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PWY0		W	10/16/07	1127	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1PWY0		W			1x20-mL P	Activity Scan	None
B1PX80		W			3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
						J85AH	
						J86WH	

PRW 10/16/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Fluor Hanford R. T. SICKLE		OCT 16 2007 1440		LVLANE	TAL-R	OCT 16 2007 1440
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10-16-07 1440

Client: PGW SDG #: W05247 NA[ ] SAF #: W08-010 NA [ ]

Work Order Number: J7J170133 Chain of Custody # W08-010-172

Shipping Container ID: _____ Air Bill # _____

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

Sample Custodian: [signature] Date: 10-16-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TESTAMERICA RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST JTJ170134 W05247 Due 11.30.07	C.O.C. # A08-010-25 Page 1 of 1

Collector: Fluor Hanford R. T. SICKLE	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: A08-010	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: LLWMA(2)-PA OCTOBER 2007	HNF-N-506-5 Pg. 49	Ice Chest No.: SML-438 Temp.
Shipped To (Lab): TestAmerica Incorporated Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: Other	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all 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
B1PPK4		W	10/16/07	1022	1x20-mL P	Activity Scan	None
B1PPK4		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						J85CN	
			DRW 10/16/07				

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Fluor Hanford R. T. SICKLE	OCT 16 2007 1440	LJ LANE TAL-R	OCT 16 2007 1440
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

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

78

TESTAMERICA RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST JJJ170134 W05247 Due 11-30-07	C.O.C. # A08-010-26 Page 1 of 1

Collector: Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: A08-010 R. T. SICKLE	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: LLWMA(2)-PA OCTOBER 2007	HNF-W-506-5 Pg 49	Ice Chest No.: SML-438 Temp.
Shipped To (Lab): TestAmerica Incorporated Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: Other	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
All Labs except WSCF: Batch all 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
B1PPK5		W	10/16/07	0830	1x20-mL P	Activity Scan	None
B1PPK5		W	10/16/07	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						J85CV	

DRW 10/16/07

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Fluor Hanford R. T. SICKLE		1440 OCT 16 2007		LJ LANE	TAL-R	1440 OCT 16 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 = 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

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10-16-07 1440

Client: PGW **SDG #:** W05247 NA[ ] **SAF #:** A08-010 NA [ ]

Work Order Number: J7J170B4 **Chain of Custody #** A08-010-25,-26

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: _____ Date: 10-16-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TESTAMERICA RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J7J170140 W05247 Due 11-30-07	C.O.C. # I08-002-120 Page 1 of 1

Collector: D. Sparks	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: 108-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100KR4JAM(1/2) OCTOBER 2007	HNF-N-506-10 pg 19	Ice Chest No.: 3D Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.: N/A

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
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
B1PV04		W	10/16/07	1012	1x20-mL P	Activity Scan	None
B1PV04		W	10/16/07	1012	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						J85DV	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. Sparks	D. Sparks	D. Sparks	OCT 16 2007 1450	J. Herrick	J. Herrick	J. Herrick	OCT 16 2007 1450
J. Herrick	J. Herrick	J. Herrick	OCT 16 2007 1530		LANE TALER		OCT 16 2007 1530

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J170140 W05247 Due 11-30-07

C.O.C. # I08-002-114

Page 1 of 1

Collector: D. Sparks	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I08-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100KR4IAM(1/2), OCTOBER 2007	HNF-N-506-10 pg 19	Ice Chest No.: 30 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
B1PV00		W	10/16/07	1146	1x20-mL P	Activity Scan	None
B1PV00		W	10/16/07	1146	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2

J85D7

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. Sparks	Nora Sparks		OCT 16 2007 1450	J. Herrick	J. Herrick		OCT 16 2007 1450
J. Herrick	J. Herrick		OCT 16 2007 1530	LWLANE TAL-R			OCT 16 2007 1530

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

TESTAMERICA RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J7J170140 W05247 Due 11-30-07	C.O.C. # I08-002-154 Page 1 of 1

Collector: D. Sparks	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: 108-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100KR4IAM(1/2) OCTOBER 2007	HNF-N-506-10 rg 19	Ice Chest No.: 30 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
B1PV29		W	10/16/07	1328	1x20-mL P	Activity Scan	None
B1PV29		W	10/16/07	1328	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
						J85EF	

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
D. Sparks	OCT 16 2007 1450	J. Herrick	OCT 16 2007 1450
J. Herrick	OCT 16 2007 1530	LVLANE TAL-R	OCT 16 2007 1530

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10-16-07 1530

Client: PGW SDG #: W05247 NA[ ] SAF #: I08-002 NA [ ]

Work Order Number: J7J170140 Chain of Custody # I08-002-120, -114, -154

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: 10-16-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TESTAMERICA RICHLAND

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST JTJ170142 W05747 Due 11-30-07	C.O.C. # S08-010-138 Page 1 of 1

Collector: D. Sparks	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S08-010	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, OCTOBER 2007	HNF-N-506-10	Ice Chest No.: 3D Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: SURV	Priority: 45 Days	Offsite Property No.: N/A

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PW12		W	10/16/07	1012	1x20-mL P	Activity Scan	None
B1PW12		W	10/16/07	1012	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						J85E5	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. Sparks			OCT 16 2007 1450	J. Herrick			OCT 16 2007 1450
J. Herrick			OCT 16 2007 1530	LWLANE	TAL-R		OCT 16 2007 1530

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

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S08-010-134
	J7J170142 W05247 Due 11.30.07	Page 1 of 1

Collector: D. Sparks	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S08-010	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV OCTOBER 2007	HNF-N-506 pg 19	Ice Chest No.: 31 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PW10		W	10/16/07	1146	1x20-mL P	Activity Scan	None
B1PW10		W	10/16/07	1146	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						J85E9	

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
D. SPARKS	10/16/07 1450	J. Herrick	10/16/07 1450
J. Herrick	10/16/07 1530	KPL WLANE TAL-R	10/16/07 1530

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10-16-07 1530

Client: PGW SDG #: W05247 NA[ ] SAF #: S08-010 NA [ ]

Work Order Number: JTJ170142 Chain of Custody # S08-010-138,-134

Shipping Container ID: _____ Air Bill # _____

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

Sample Custodian: [signature] Date: 10-16-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TESTAMERICA RICHLAND

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

JJJ170146 W05247 Due 11.30.07

C.O.C. # W08-010-132

Page 1 of 1

Collector: Josh Herrick, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-010	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, OCTOBER 2007	HNF-N-506-12	Ice Chest No.: ER1-02-803 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PWP0		W	10-16-07	1335	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1PWP0		W	↓	↓	1x20-mL P	Activity Scan	None
						J85GF	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Josh Herrick, Fluor Hanford		J. Herrick	OCT 16 2007 1530		LJ LANE	TAL-R	OCT 16 2007 1530
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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J7J170H6 W05247 Due 11-30-07

C.O.C. # W08-010-133

Page 1 of 1

Collector: Josh Herrick, Fluor Hanford	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-010	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA OCTOBER 2007	HWF-N-506-8	Ice Chest No.: ERC-02-803 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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1PWP1		W	10-16-07	1335	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1PWP1		W	↓	↓	1x20-mL P	Activity Scan	None
						J85GG	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Josh Herrick, Fluor Hanford		J. Herrick	OCT 16 2007 1530		LN LANE	TAL-R	OCT 16 2007 1530
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 10-16-07 1530

Client: PGW SDG #: W05247 NA[ ] SAF #: W08-010 NA [ ]

Work Order Number: J7J170146 Chain of Custody # W08-010-132,-133

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: RJ Date: 10-16-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TESTAMERICA RICHLAND

11/21/2007 9:16:06 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 11/23/2007 WO5247

Sep1 DT/Tm Tech:

Batch: 7292469 WATER pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J8NN8-1-AA J7J110118-1-SAMP 10/10/2007 09:28		200.60g,in AmtRec: VIAL20,LP #Containers: 2		1.5	46.7	50	NA	1111	11/04/07	Scr: Alpha: 4.55E-08 uCi/Sa Beta: -9.91E-08 uCi/Sa
2 J8NPD-1-AA J7J110118-2-SAMP 10/10/2007 11:21		200.70g,in AmtRec: VIAL20,LP #Containers: 2			49.8		ND			Scr: Alpha: 5.76E-08 uCi/Sa Beta: 1.17E-07 uCi/Sa
3 J8NPK-1-AA J7J110118-3-SAMP 10/10/2007 10:22		200.40g,in AmtRec: VIAL20,LP #Containers: 2			45.0		ND			Scr: Alpha: 5.10E-07 uCi/Sa Beta: -1.80E-07 uCi/Sa
4 J8NPV-1-AA J7J110118-4-SAMP 10/10/2007 11:10		176.40g,in AmtRec: VIAL20,LP #Containers: 2			42.4		ND			Scr: Alpha: 4.70E-08 uCi/Sa Beta: -2.61E-07 uCi/Sa
5 J8THP-1-AA J7J120175-2-SAMP 10/11/2007 12:02		192.70g,in AmtRec: 20ML,4XLP #Containers: 5			45.1		NA	1213	11/04/07	Scr: Alpha: 1.06E-06 uCi/Sa Beta: 3.60E-08 uCi/Sa
6 J8THW-1-AA J7J120175-3-SAMP 10/11/2007 11:02		174.60g,in AmtRec: 20ML,4XLP #Containers: 5			33.0		ND			Scr: Alpha: 1.37E-07 uCi/Sa Beta: -2.67E-07 uCi/Sa
7 J8TH3-1-AA J7J120175-4-SAMP 10/11/2007 13:10		198.80g,in AmtRec: 20ML,3XLP #Containers: 4			~~0.3~~ DB 11-23-07 31.8		ND			Scr: Alpha: -1.58E-07 uCi/Sa Beta: -1.03E-07 uCi/Sa

91

TESTAMERICA RICHLAND

11/21/2007 9:16:07 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory .
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 11/23/2007

Sep1 DT/Tm Tech:

Batch: 7292469 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 J8TH8-1-AA J7J120175-5-SAMP 10/11/2007 09:56		199.60g,in AmtRec: 20ML,4XLP #Containers: 5		1.5	DB 11-23-07 ~~45.4~~ 0.3	50	10F Scr:	1213 Alpha: 3.26E-07 uCi/Sa	11/21/07 Beta: -3.54E-07 uCi/Sa	
9 J8TJD-1-AA J7J120175-6-SAMP 10/11/2007 09:38		179.40g,in AmtRec: 20ML,LP #Containers: 2			~~34.7~~ 45.4		10A Scr:	1315 Alpha: 9.92E-08 uCi/Sa	Beta: -9.89E-08 uCi/Sa	
10 J85AH-1-AA J7J170133-1-SAMP 10/16/2007 11:27		200.90g,in AmtRec: 20ML,LP #Containers: 2			~~40.2~~ 34.7		10B Scr:	Alpha: 1.35E-05 uCi/Sa	Beta: -3.22E-04 uCi/Sa	
11 J85DV-1-AA J7J170140-1-SAMP 10/16/2007 10:12		199.80g,in AmtRec: 20ML,LP #Containers: 2			~~30.7~~ 40.2		10D Scr:	Alpha: 7.40E-05 uCi/Sa	Beta: -4.83E-06 uCi/Sa	
12 J85D7-1-AA J7J170140-2-SAMP 10/16/2007 11:46		199.00g,in AmtRec: 20ML,LP #Containers: 2			~~43.9~~ 30.7		10F Scr:	Alpha: -4.71E-06 uCi/Sa	Beta: 1.68E-05 uCi/Sa	
13 J85EF-1-AA J7J170140-3-SAMP 10/16/2007 13:28		203.10g,in AmtRec: 20ML,LP #Containers: 2			43.9		10A Scr:	1416 Alpha: 5.69E-05 uCi/Sa	11/21/07 Beta: 1.57E-04 uCi/Sa	
14 J85GF-1-AA J7J170146-1-SAMP 10/16/2007 13:35		200.50g,in AmtRec: 20ML,LP #Containers: 2			43.1		10B Scr:	Alpha: 5.02E-05 uCi/Sa	Beta: -1.24E-05 uCi/Sa	

92

TESTAMERICA RICHLAND

11/21/2007 9:16:08 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 11/23/2007

Sep1 DT/Tm Tech:

Batch: 7292469 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 J85GF-1-AD-X J7J170146-1-DUP 10/16/2007 13:35		201.80g,in AmtRec: 20ML,LP #Containers: 2		1.5	41.7	50	100	1416	11/21/07	
							Scr:	Alpha: 5.02E-05 uCi/Sa		Beta: -1.24E-05 uCi/Sa
16 J85GG-1-AA J7J170146-2-SAMP 10/16/2007 13:35		198.10g,in AmtRec: 20ML,LP #Containers: 2			35.9		10F			
							Scr:	Alpha: -7.67E-05 uCi/Sa		Beta: 3.08E-05 uCi/Sa
17 J9E95-1-AA-B J7J190000-469-BLK 10/16/2007 13:35		200.60g,in AmtRec: #Containers: 1			0.5		10A	0706	11/28/07	
							Scr:	Alpha:		Beta:
18 J9E95-1-AC-C J7J190000-469-LCS 10/16/2007 13:35		203.00g,in AmtRec: #Containers: 1	ASD4336 10/31/07,pd 06/01/01,r		0.5		10B			
							Scr:	Alpha:		Beta:

Comments: ~~J8THP-SAMP Comments.~~
PH < 2.0, Aliquots reduced due to weight screens JB 11-21-07

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

```
J8NN81AA-SAMP Constituent List:
  ALPHA       RDL:3        pCi/L    LCL:      UCL:      RPD:
J9E951AA-BLK:
  ALPHA       RDL:3        pCi/L    LCL:      UCL:      RPD:
J9E951AC-LCS:
  Am-241      RDL:         pCi/L    LCL:70    UCL:130   RPD:20
J8NN81AA-SAMP Calc Info:
```


93

11/21/2007 9:16:08 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 11/23/2007

Sep1 DT/Tm Tech:

Batch: 7292469 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

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

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

J9E951AA-BLK:

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

J9E951AC-LCS:

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

Approved By _____ Date: _____

11/26/2007 1:27:12 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/26/2006, 12/1/2007, Batch: '7292469', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7292469						
AC		**CalcC**	**BockJ**	11/21/2007 9:04:15		
SC			wagarr	IsBatched	10/19/2007 2:37:32 PM	ICOC_RADCALC v4.8.29
SC			BockJ	InPrep	11/21/2007 9:04:15 AM	RICH-RC-5014 Revision 7
SC			BockJ	Prep1C	11/21/2007 9:16:09 AM	RICH-RC-5014 REVISION 7
SC			BostedD	Prep2C	11/23/2007 2:26:17 PM	RICH-RC-5014 REVISION 7
SC			BlackCL	InCnt1	11/23/2007 2:29:33 PM	RICH-RD-0003 REVISION 5
SC			BlackCL	CalcC	11/25/2007 7:35:14 AM	RICH-RD-0003 REVISION 5
AC			**BockJ**	11/21/2007 9:16:09		
AC			**BostedD**	11/23/2007 2:26:17		
AC			**BlackCL**	11/23/2007 2:29:33		
AC			**BlackCL**	11/25/2007 7:35:14		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.30

TESTAMERICA RICHLAND

11/21/2007 9:34:06 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 11/23/2007 1005247

Sep1 DT/Tm Tech:

Batch: 7292471 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ /APA

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J8NN8-1-AC J7J110118-1-SAMP 10/10/2007 09:28		199.10g,in AmtRec: VIAL20,LP #Containers: 2		1.5	69.1	100 JB 11-21-07	7D	1759	11/27/07 RC/	
								Scr:	Alpha: 4.55E-08 uCi/Sa	Beta: -9.91E-08 uCi/Sa
2 J8NPD-1-AC J7J110118-2-SAMP 10/10/2007 11:21		201.40g,in AmtRec: VIAL20,LP #Containers: 2			67.2		7A	1544	11/27/07	
								Scr:	Alpha: -5.76E-08 uCi/Sa	Beta: 1.17E-07 uCi/Sa
3 J8NPK-1-AC J7J110118-3-SAMP 10/10/2007 10:22		200.20g,in AmtRec: VIAL20,LP #Containers: 2			76.2		7B			
								Scr:	Alpha: 5.10E-07 uCi/Sa	Beta: -1.80E-07 uCi/Sa
4 J8NPV-1-AC J7J110118-4-SAMP 10/10/2007 11:10		199.90g,in AmtRec: VIAL20,LP #Containers: 2			79.8		7C			
								Scr:	Alpha: 4.70E-08 uCi/Sa	Beta: -2.61E-07 uCi/Sa
5 J8THP-1-AC J7J120175-2-SAMP 10/11/2007 12:02		203.10g,in AmtRec: 20ML,4XLP #Containers: 5			91.2		7D			
								Scr:	Alpha: 1.06E-06 uCi/Sa	Beta: 3.60E-08 uCi/Sa
6 J8THW-1-AC J7J120175-3-SAMP 10/11/2007 11:02		187.20g,in AmtRec: 20ML,4XLP #Containers: 5			112.5		7A			
								Scr:	Alpha: 1.37E-07 uCi/Sa	Beta: -2.67E-07 uCi/Sa
7 J8TH3-1-AC J7J120175-4-SAMP 10/11/2007 13:10		201.30g,in AmtRec: 20ML,3XLP #Containers: 4			97.0		7B			
								Scr:	Alpha: -1.58E-07 uCi/Sa	Beta: -1.03E-07 uCi/Sa

96

TESTAMERICA RICHLAND

11/21/2007 9:34:07 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 11/23/2007

Sep1 DT/Tm Tech:

Batch: 7292471 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 J8TH8-1-AC J7J120175-5-SAMP 10/11/2007 09:56	AmtRec: 20ML,4XLP #Containers: 5	203.00g,in		1.5	0.4	100	27C	1544	11/27/07	Scr: Alpha: 3.26E-07 uCi/Sa Beta: -3.54E-07 uCi/Sa
9 J8TJD-1-AC J7J120175-6-SAMP 10/11/2007 09:38	AmtRec: 20ML,LP #Containers: 2	157.80g,in			96.8		27D			Scr: Alpha: 9.92E-08 uCi/Sa Beta: -9.89E-08 uCi/Sa
10 J85AH-1-AC J7J170133-1-SAMP 10/16/2007 11:27	AmtRec: 20ML,LP #Containers: 2	201.10g,in			73.1		28A			Scr: Alpha: 1.35E-05 uCi/Sa Beta: -3.22E-04 uCi/Sa
11 J85DV-1-AC J7J170140-1-SAMP 10/16/2007 10:12	AmtRec: 20ML,LP #Containers: 2	200.40g,in			75.8		28B			Scr: Alpha: 7.40E-05 uCi/Sa Beta: -4.83E-06 uCi/Sa
12 J85D7-1-AC J7J170140-2-SAMP 10/16/2007 11:46	AmtRec: 20ML,LP #Containers: 2	200.00g,in			52.8		28C			Scr: Alpha: 4.71E-06 uCi/Sa Beta: 1.68E-05 uCi/Sa
13 J85EF-1-AC J7J170140-3-SAMP 10/16/2007 13:28	AmtRec. 20ML,LP #Containers: 2	200.00g,in			70.2		28D			Scr: Alpha: 5.69E-05 uCi/Sa Beta: 1.57E-04 uCi/Sa
14 J85GF-1-AC J7J170146-1-SAMP 10/16/2007 13:35	AmtRec: 20ML,LP #Containers: 2	199.30g,in			63.3		28A	1740	11/27/07	Scr: Alpha: 5.02E-05 uCi/Sa Beta: -1.24E-05 uCi/Sa

97

TESTAMERICA RICHLAND

11/21/2007 9:34:08 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 11/23/2007

Sep1 DT/Tm Tech:

Batch: 7292471 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 J85GF-1-AE-X J7J170146-1-DUP 10/16/2007 13:35		197.00g,in AmtRec: 20ML,LP #Containers: 2		1.5	61.6	100	28B	1740	11/27/07 DB	
								Scr:	Alpha: 9.02E-05 uCi/Sa	Beta: -1.24E-05 uCi/Sa
16 J85GG-1-AC J7J170146-2-SAMP 10/16/2007 13:35		203.60g,in AmtRec: 20ML,LP #Containers: 2			64.1		28C			
								Scr:	Alpha: -7.67E-05 uCi/Sa	Beta: 3.08E-05 uCi/Sa
17 J9FAQ-1-AA-B J7J190000-471-BLK 10/16/2007 13:35		201.20g,in AmtRec: #Containers: 1			Ø		28D			
								Scr:	Alpha:	Beta:
18 J9FAQ-1-AC-C J7J190000-471-LCS 10/16/2007 13:35		201.70g,in AmtRec: #Containers: 1	BESB3162 10/22/07,pd 08/08/06 r		0.5		~~28A~~ 27A 11/27/07 DB		0	
								Scr:	Alpha:	Beta:

98

Comments: ~~J8THP-SAMP Comments.~~ pH < 2.0 SJB 11-21-07
aliquots reduced due to weight screens. SJB 11-21-07

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

J8NN81AC-SAMP Constituent List:

BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
J9FAQ1AA-BLK:					
BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
J9FAQ1AC-LCS:					
Sr-90	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

J8NN81AC-SAMP Calc Info:

11/21/2007 9:34:08 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: ,BockJ

AnalyDueDate: 11/23/2007

Batch: 7292471 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:

```
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J9FAQ1AA-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
J9FAQ1AC-LCS:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

11/28/2007 1:47:21 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/28/2006, 12/3/2007, Batch: '7292471', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7292471						
AC		CalcC	BockJ	11/21/2007 9:20:18		
SC			wagarr	IsBatched	10/19/2007 2:37:32 PM	ICOC_RADCALC v4.8.29
SC			BockJ	InPrep	11/21/2007 9:20:18 AM	RICH-RC-5014 Revision 7
SC			BockJ	Prep1C	11/21/2007 9:34:09 AM	RICH-RC-5014 REVISION 7
SC			AshworthA	Prep2C	11/27/2007 8:19:15 AM	RICH-RC-5014 REVISION 7
SC			BlackCL	InCnt1	11/27/2007 8:28:59 AM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	11/27/2007 9:45:52 PM	RICH-RD-0003 REVISION 5
AC			BockJ	11/21/2007 9:34:09		
AC			AshworthA	11/27/2007 8:19:15		
AC			BlackCL	11/27/2007 8:28:59		
AC			DAWKINSO	11/27/2007 9:45:52		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.30

TESTAMERICA RICHLAND

11/8/2007 12:39:37 PM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: ORM

AnalyDueDate: 11/26/2007

Sep1 DT/Tm Tech: 11/15/07 16:21:36

Batch: 7292472 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech: 11-23-07 8:31 AM

SEQ Batch, Test: None

Prep Tech: ,barcoti

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J8THM-1-AD		1005.15g,in	SRTB15554 11/07/07,pd	1.610 2.0180			100	9	0708	11/16/07	
J7J120175-1-SAMP				0.7978		24.1		7A	1013	11/26/07	
	VTA18165 Ex:10/23/200							3	0742	11/26/07	
10/11/2007 12:02		AmtRec: 20ML,500G,4XLP	#Containers: 6				Scr:	Alpha: 1.80E-07 uCi/Sa		Beta: 3.74E-07 uCi/Sa	
2 J8THW-1-AD		1004.11g,in	SRTB15555 11/07/07,pd	1.743 2.0093				3	0701	11/16/07	
J7J120175-3-SAMP				0.8675		241		7B	1013	11/26/07	
	VTA18166 Ex:10/23/200							3B	0742	11/26/07	
10/11/2007 11:02		AmtRec: 20ML,4XLP	#Containers: 5				Scr:	Alpha: 1.37E-07 uCi/Sa		Beta: -2.67E-07 uCi/Sa	
3 J8TH8-1-AD		1000.21g,in	SRTB15556 11/07/07,pd	1.417 2.0115				9	0734	11/16/07	
J7J120175-5-SAMP				0.7044		23.7		7C	1013	11/26/07	
	VTA18167 Ex:10/23/200							3C	0742	11/26/07	
10/11/2007 09:56		AmtRec: 20ML,4XLP	#Containers: 5				Scr:	Alpha: 3.26E-07 uCi/Sa		Beta: -3.54E-07 uCi/Sa	
4 J85E5-1-AA		1002.12g,in	SRTB15557 11/07/07,pd	1.791 2.0071				3	0734	11/16/07	
J7J170142-1-SAMP				0.8923		240		1A	1048	11/26/07	
	VTA18168 Ex:10/23/200							3D	0742	11/26/07	
10/16/2007 10:12		AmtRec: 20ML,3XLP	#Containers: 4				Scr:	Alpha: 1.63E-04 uCi/Sa		Beta: 1.80E-04 uCi/Sa	

101

TESTAMERICA RICHLAND

11/8/2007 12:39:38 PM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 11/26/2007

Sep1 DT/Tm Tech:

Batch: 7292472 WATER pCi/L PM, Quote: SA , 57671

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,barcoti

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
5 J85E5-1-AC-X		1001.40g,in	SRTB15558	1.430			100	5	0809	11/16	
J7J170142-1-DUP			11/07/07,pd	2.0154							
				0.8088		24.4		1D	1048	11/26	
	YTA18169							4D	0942	11/26	
10/16/2007 10:12	Ex:10/23/200	AmtRec: 20ML,3XLP		#Containers: 4				Scr:	Alpha: 1.63E-04 uCi/Sa		Beta: 1.80E-04 uCi/Sa
6 J85E9-1-AA		1000.03g,in	SRTB15559	1.745				3	0809	11/16	
J7J170142-2-SAMP			11/07/07,pd	2.0067							
				0.8696		24.2		3A	1048	11/26	
	YTA18170							4B	0942	11/26	
10/16/2007 11:46	Ex:10/23/200	AmtRec: 20ML,3XLP		#Containers: 4				Scr:	Alpha: 1.29E-04 uCi/Sa		Beta: 5.38E-04 uCi/Sa
7 J9FA3-1-AA-B		1000.20g,in	SRTB15560	1.432				5	0809	11/16	
J7J190000-472-BLK			11/07/07,pd	2.0089							
				0.7133		24.7		3B	1048	11/26	
	YTA18171							4C	0942	11/26	
10/16/2007 10:12	Ex:10/23/200	AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:
8 J9FA3-1-AC-C		1001.14g,in	SRSG1402	1.441				3	0841	11/16	
J7J190000-472-LCS			10/22/07,pd	1.9884							
				0.7247		23.7		3D	1048	11/26	
	YTA18172							4D	0942	11/26	
10/16/2007 10:12	Ex:10/23/200	AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:

102

TESTAMERICA RICHLAND

11/8/2007 12:39:39 PM

Sample Preparation/Analysis

Balance Id:1120373922

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

Pipet #: _____

AnalyDueDate: 11/26/2007

Sep1 DT/Tm Tech:

Batch: 7292472 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,barcoti

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

Comments:

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

J8THM1AD-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

J9FA31AA-BLK:

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

J9FA31AC-LCS:

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

J8THM1AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J9FA31AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J9FA31AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

11/26/2007 1:28:59 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/26/2006, 12/1/2007, Batch: '7292472', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7292472						
AC		CalcC	Barcotl	11/8/2007 12:38:58		
SC			wagarr	IsBatched	10/19/2007 2:37:32 PM	ICOC_RADCALC v4.8.29
SC			Barcotl	InPrep	11/8/2007 12:38:58 PM	RICH-RC-5006 REVISION 7
SC			Barcotl	Prep1C	11/8/2007 12:39:23 PM	RICH-RC-5006 REVISION 7
SC			ManisD	InSep1	11/9/2007 6:41:07 AM	RICH-RC-5006 REV 7
SC			ManisD	Sep2C	11/15/2007 4:57:47 PM	RICH-RC-5006 REV 7
SC			DAWKINSO	InCnt1	11/15/2007 5:21:20 PM	RICH-RD-0007 REVISION 6
SC			BlackCL	Cnt1C	11/16/2007 8:45:10 AM	RICH-RD-0007 REVISION 6
SC			FABREM	Sep2C	11/23/2007 2:47:25 PM	RICH-RC-5071 REVISION 5
SC			BlackCL	InCnt2	11/23/2007 2:49:54 PM	RICH-RD-0003 REVISION 5
SC			BlackCL	CalcC	11/25/2007 8:17:59 AM	RICH-RD-0003 REVISION 5
AC			Barcotl	11/8/2007 12:39:23		
AC			ManisD	11/9/2007 6:41:07		
AC			ManisD	11/15/2007 4:57:47		
AC			DAWKINSO	11/15/2007 5:21:20		
AC			BlackCL	11/16/2007 8:45:10		
AC			FABREM	11/23/2007 2:47:25		
AC			BlackCL	11/23/2007 2:49:54		
AC			BlackCL	11/25/2007 8:17:59		

AC: Accepting Entry; SC: Status Change

STL Richland

Rich and Wa.

Page 1

Grp Rec Cnt: 9

ICOCFractions v4.8.30

TESTAMERICA RICHLAND

11/20/2007 5:07:29 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 11/26/2007 005247

Sep1 DT/Tm Tech:

Batch: 7292475 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: BockJ/APA

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J8THP-1-AD J7J120175-2-SAMP 10/11/2007 12:02		2501.60g,in AmtRec: 20ML,4XLP #Containers: 5			100mL	200	G8	1912	11/21/07 OP Scr: Alpha: 1.06E-06 uCi/Sa	Beta: 3.60E-08 uCi/Sa
2 J8THP-1-AE-X See comment box J7J120175-2-DUP 10/11/2007 12:02		AmtRec: 20ML,4XLP #Containers: 5			—		G6	1126	Scr: Alpha: 1.06E-06 uCi/Sa	Beta: 3.60E-08 uCi/Sa
3 J9FCT-1-AA-B J7J190000-475-BLK 10/11/2007 12:02		2501.50g,in AmtRec: #Containers: 1			100mL		G6	1913	11/21/07 OP Scr: Alpha:	Beta:
4 J9FCT-1-AC-C J7J190000-475-LCS 10/11/2007 12:02		2499.50g,in AmtRec: #Containers: 1	QCAG1420 10/31/07,pd 03/07/05 r				G7	1914	Scr: Alpha:	Beta:

Comments: J8THP-SAMP "Comments. No DUP. poured due to insuff. volume amount. Please recount on diff. detector. JB 11/20/07"
PH <2.0 JB 11.20-07

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

J8THP1AD-SAMP Constituent List:

Co-60	RDL:2.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:1.50E+01	pCi/L	LCL:70	UCL:130	RPD:20	Cs-137DA	RDL:1.50E+01	pCi/L	LCL:70	UCL:130	RPD:20
Eu-152	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	Eu-154	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:
Eu-155	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Sb-125	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:						

J9FCT1AA-BLK:

105

11/20/2007 5:07:29 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: ,BockJ

AnalyDueDate: 11/26/2007

Batch: 7292475 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:

Co-60	RDL:2.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-137DA	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Eu-152	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	Eu-154	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:
Eu-155	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Sb-125	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:						
J9FCT1AC-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						

J8THP1AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J9FCT1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

J9FCT1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

11/26/2007 2:54:48 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/26/2006, 12/1/2007, Batch: '7292475', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7292475						
AC		**CalcC**	**BockJ**	11/20/2007 4:53:51		
SC			wagarr	IsBatched	10/19/2007 2:37:32 PM	ICOC_RADCALC v4.8.29
SC			BockJ	InPrep	11/20/2007 4:53:51 PM	RICH-RC-5014 Revision 7
SC			BockJ	Prep1C	11/20/2007 5:07:36 PM	RICH-RC-5017 REVISION 6
SC			AshworthA	Sep2C	11/21/2007 3:31:55 PM	RICH-RC-5017 REVISION 6
SC			AshworthA	Prep2C	11/21/2007 3:32:31 PM	RICH-RC-5017 REVISION 6
SC			DAWKINSO	InCnt1	11/21/2007 4:21:43 PM	RICH-RD-0003 REVISION 5
SC			BlackCL	CalcC	11/22/2007 8:10:52 AM	RICH-RD-0007 REVISION 6
AC			**BockJ**	11/20/2007 5:07:36		
AC			**AshworthA**	11/21/2007 3:31:55		
AC			**AshworthA**	11/21/2007 3:32:31		
AC			**DAWKINSO**	11/21/2007 4:21:43		
AC			**DAWKINSO**	11/21/2007 4:21:56		
AC			**BlackCL**	11/22/2007 8:10:52		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.30

TESTAMERICA RICHLAND

11/15/2007 4:14:04 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

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

AnalyDueDate: 11/30/2007 W05247

Batch: 7292473 WATER pCi/L PM, Quote: SA , 57671
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 J85CN-1-AA J7J170134-1-SAMP 10/16/2007 10:22		3926.40g,in AmtRec: 20ML,2X4LP	ITA6744 11/08/07 #Containers: 3		36.6	100	15 Scr:	2335 Alpha: 1.81E-04 uCi/Sa	11/21/07 070 Beta: 7.40E-04 uCi/Sa	
2 J85CN-1-AC-X J7J170134-1-DUP 10/16/2007 10:22		3924.80g,in AmtRec: 20ML,2X4LP	ITA6745 11/08/07 #Containers: 3		36.9		L4 Scr:	b Alpha: 1.81E-04 uCi/Sa	b Beta: 7.40E-04 uCi/Sa	
3 J85CV-1-AA J7J170134-2-SAMP 10/16/2007 08:30		3889.20g,in AmtRec: 20ML,2X4LP	ITA6746 11/08/07 #Containers: 3		35.7		L2 Scr:	23 37 Alpha: 5.20E-04 uCi/Sa	b Beta: 4.80E-04 uCi/Sa	
4 J9FA9-1-AA-B J7J190000-473-BLK 10/16/2007 10:22		3922.00g,in AmtRec:	ita6747 11/08/07 #Containers: 1		36.7		L4 Scr:	0732 Alpha:	11/20/07 S Beta:	
5 J9FA9-1-AC-C J7J190000-473-LCS 10/16/2007 10:22		3863.80g,in AmtRec:	isd0790 10/31/07 #Containers: 1		37.0		L5 Scr:	0732 Alpha:	Beta:	

108

Comments:

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

J85CN1AA-SAMP Constituent List:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:

11/15/2007 4:14:08 PM

Sample Preparation/Analysis

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

Balance Id:

Pipet #:

AnalyDueDate: 11/30/2007

Sep1 DT/Tm Tech:

Batch: 7292473 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,BostedD

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

```
J9FA91AA-BLK:
  I-129        RDL:1.00E+00    pCi/L    LCL:        UCL:        RPD:
J9FA91AC-LCS:
  I-129        RDL:5           pCi/L    LCL:70      UCL:130     RPD:20
J85CN1AA-SAMP Calc Info:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
J9FA91AA-BLK:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
J9FA91AC-LCS:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

Approved By _____ Date: _____

TESTAMERICA RICHLAND
109

11/27/2007 3:44:47 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/27/2006, 12/2/2007, Batch: '7292473', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7292473						
AC		**CalcC**	**BostedD**	11/15/2007 4:15:53		
SC			wagarr	IsBatched	10/19/2007 2:37:32 PM	ICOC_RADCALC v4.8.29
SC			BostedD	InPrep2	11/15/2007 4:15:53 PM	RICHRC5025 REVISION 4
SC			BostedD	Prep2C	11/21/2007 3:31:45 PM	RICHRC5025 REVISION 4
SC			DAWKINSO	InCnt1	11/21/2007 4:22:45 PM	RICH-RD-0007 REVISION 6
SC			BlackCL	CalcC	11/22/2007 8:10:47 AM	RICH-RD-0007 REVISION 6
AC			**BostedD**	11/21/2007 3:31:45		
AC			**DAWKINSO**	11/21/2007 4:22:45		
AC			**BlackCL**	11/22/2007 8:10:47		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.30

SEVERN TRENT STL

*** RE-ANALYSIS REQUEST ***

DUE DATE 11/30/07

CUSTOMER PGW

ANALYSIS TC99

MATRIX water

LOT NUMBER

SAMPLE DELIVERY GROUP

OLD BATCH NUMBER 7332476

NEW BATCH NUMBER 7337235

LAB SAMPLE ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1) all	failed LCS
2)	
3)	
4)	
5)	
6)	
7)	
8)	
9)	
10)	
11)	
12)	
13)	
14)	
15)	
16)	
17)	
18)	
19)	
20)	
LAB QC ID	Assigned with new batch.

RC-048, 10/03, Rev 7

TESTAMERICA RICHLAND

12/3/2007 1:56:26 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: ___

AnalyDueDate: 11/23/2007

Sep1 DT/Tm Tech:

Batch: 7337235 **WATER** **pCi/L** **PM, Quote: SA , 57671**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7292469 AZS7, 7292471 BCS8, 7292474 AMS5, 7332476 AMS5, 7337235 AMS5,

Prep Tech: Barcotl,HarrisD

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 J8N92-3-AA J7J110118-5-SAMP 10/10/2007 10:22		125.00g,in AmtRec: 3XLP	#Containers: 3	60		Scr:	Alpha:	Beta:
2 J8N92-3-AC-S J7J110118-5-MS 10/10/2007 10:22		125.10g,in AmtRec: 3XLP	TCSG1931 10/22/07,pd 01/10/06,r #Containers: 3			Scr:	Alpha:	Beta:
3 J86WH-3-AA J7J170133-2-SAMP 10/16/2007 11:27		125.10g,in AmtRec: 3XLP	#Containers: 3			Scr:	Alpha:	Beta:
4 J86WH-3-AC-X J7J170133-2-DUP 10/16/2007 11:27		124.90g,in AmtRec: 3XLP	#Containers: 3			Scr:	Alpha:	Beta:
5 J9FCM-3-AA-B J7J190000-474-BLK 10/16/2007 11:27		125.00g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 J9FCM-3-AC-C J7J190000-474-LCS 10/16/2007 11:27		125.10g,in AmtRec:	TCSE2176 11/20/07,pd 01/10/06,r #Containers: 1			Scr:	Alpha:	Beta:
7 J9FCM-3-AD-B J7J190000-474-BLK 10/16/2007 11:27		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

TESTAMERICA RICHLAND

12/3/2007 1:56:27 PM

Sample Preparation/Analysis

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

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

AnalyDueDate: 11/23/2007

Batch: 7337235 pCi/L
SEQ Batch, Test: None

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

Comments: pH < 2.0 RMA 12/3/07

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

J8N923AA-SAMP Constituent List:

J8N923AC-MS Constituent List:

J9FCM3AA-BLK:

J9FCM3AC-LCS:

J9FCM3AD-BLK:

J8N923AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8N923AC-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J9FCM3AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J9FCM3AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J9FCM3AD-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

113

12/18/2007 10:58:04 AM

ICOC Fraction Transfer/Status Report

ByDate: 12/18/2006, 12/23/2007, Batch: '7337235', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7337235						
AC		CalcC	harrisd	12/3/2007 1:44:22 PM		
SC			antonsonl	IsBatched	12/3/2007 10:14:21 AM	ICOC_RADCALC v4.8.29
SC			harrisd	InPrep	12/3/2007 1:44:22 PM	RICH-RC-5016 Revision 7
SC			HarrisD	Prep1C	12/3/2007 1:56:31 PM	RICH-RC-5016 REVISION 7
SC			FABREM	Sep1C	12/6/2007 8:32:42 PM	RICH-RC-5078 REVISION 4
SC			DAWKINSO	InCnt1	12/6/2007 8:43:25 PM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	12/7/2007 1:54:10 PM	RICH-RD-0001 REVISION 4
AC			HarrisD	12/3/2007 1:56:31 PM		
AC			FABREM	12/6/2007 8:32:42 PM		
AC			DAWKINSO	12/6/2007 8:43:25 PM		
AC			BlackCL	12/7/2007 1:54:10 PM		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa

Grp Rec Cnt: 5

ICOCFractions v4.8.30

SEVERN TRENT STL

*** RE-COUNT REQUEST ***

DUE DATE 11/30/07

CUSTOMER DNA

ANALYSIS H-3

MATRIX H_2O

LOT NUMBER J7J120175

SAMPLE DELIVERY GROUP

OLD BATCH NUMBER 7292477

7B30557

LAB SAMPLE ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1)	
2) all	Low LCS's
3)	
4)	
5)	
6)	
7)	
8)	
9)	
10)	
11)	
12)	
13)	
14)	
15)	
16)	
17)	
18)	
19)	
20)	

RC-126 10/03 REV 4

TESTAMERICA RICHLAND

11/27/2007 8:52:25 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 11/26/2007

Batch: 7330557 **WATER** **pCi/L** **PM, Quote: SA , 57671**

SEQ Batch, Test: None All Tests: 7285312 88EA, 7292469 AZS7, 7292471 BCS8, 7292472 CLTL, 7292475 AWTA, 7292476 5SS3, 7292477 ARS6, 7330557 ARS6,

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 J8THM-2-AC								
J7J120175-1-SAMP								
10/11/2007 12:02		AmtRec: 20ML,500G,4XLP	#Containers: 6			Scr:	Alpha: 1.80E-07 uCi/Sa	Beta: 3.74E-07 uCi/Sa
2 J8THM-2-AH-X								
J7J120175-1-DUP								
10/11/2007 12:02		AmtRec: 20ML,500G,4XLP	#Containers: 6			Scr:	Alpha: 1.80E-07 uCi/Sa	Beta: 3.74E-07 uCi/Sa
3 J9FC3-2-AA-B								
J7J190000-477-BLK								
10/11/2007 12:02		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
4 J9FC3-2-AC-C								
J7J190000-477-LCS								
10/11/2007 12:02		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
5 J9FC3-2-AD-BX								
J7J190000-477-MBLK								
10/11/2007 12:02		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 J9FC3-2-AE-CM								
J7J190000-477-MLCS								
10/11/2007 12:02		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
7 J9FC3-2-AF-BN								
J7J190000-477-IBLK								
10/11/2007 12:02		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

116

Sample Preparation/Analysis

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

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

AnalyDueDate: 11/26/2007

Batch: 7330557 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:
8 J9FC3-2-AG-BN								
J7J190000-477-IBLK								
10/11/2007 12:02		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

J8THM2AC-SAMP Constituent List:

J9FC32AA-BLK:

J9FC32AC-LCS:

J9FC32AD-MBLK:

J9FC32AE-MLCS:

J9FC32AF-IBLK:

J9FC32AG-IBLK:

J8THM2AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J9FC32AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J9FC32AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J9FC32AD-MBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J9FC32AE-MLCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J9FC32AF-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TESTAMERICA RICHLAND

Sample Preparation/Analysis

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

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

AnalyDueDate: 11/26/2007

Batch: 7330557 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:

J9FC32AG-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TESTAMERICA RICHLAND 118

11/28/2007 1:36:48 PM

ICOC Fraction Transfer/Status Report

ByDate: 11/28/2006, 12/3/2007, Batch: '7330557', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus		Accepting		Comments
7330557						
AC		**CalcC**	**ClarkR**	11/27/2007 9:14:35		
SC			ClarkR	InCnt1	11/27/2007 9:14:35 AM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	11/28/2007 5:11:11 AM	RICH-RD-0001 REVISION 4
AC			**BlackCL**	11/28/2007 5:11:11		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 2

ICOCFractions v4.8.30

TESTAMERICA RICHLAND

10/22/2007 1:54:17 PM

Sample Preparation/Analysis

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

Balance Id: N/A
Pipet #:
Sep1 DT/Tm Tech: 11-7-07am
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 11/26/2007 WO5217

Batch: 7292476 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:
1 J8TH3-1-AD								
J7J120175-4-SAMP								
10/11/2007 13:10		AmtRec: 20ML,3XLP	#Containers: 4			Scr:	Alpha: -1.58E-07 uCi/Sa	Beta: -1.03E-07 uCi/Sa
2 J8TH3-1-AE-X								
J7J120175-4-DUP								
10/11/2007 13:10		AmtRec: 20ML,3XLP	#Containers: 4			Scr:	Alpha: -1.58E-07 uCi/Sa	Beta: -1.03E-07 uCi/Sa
3 J9FCX-1-AA-B								
J7J190000-476-BLK								
10/11/2007 13:10		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
4 J9FCX-1-AC-C								
J7J190000-476-LCS								
10/11/2007 13:10		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
5 J9FCX-1-AD-BN								
J7J190000-476-IBLK								
10/11/2007 13:10		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

All Clients for Batch:
384868, , SA , 57671

J8TH31AD-SAMP Constituent List:

10/22/2007 1:54:18 PM

Sample Preparation/Analysis

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

Balance Id: N/A
Pipet #:
Sep1 DT/Tm Tech: 11-7-07 AM
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 11/26/2007

Batch: 7292476 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:

J9FCX1AA-BLK:

J9FCX1AC-LCS:

J9FCX1AD-IBLK:

J8TH31AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J9FCX1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J9FCX1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J9FCX1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

11/23/2007 11:03:04 AM

ICOC Fraction Transfer/Status Report

ByDate: 11/23/2006, 11/28/2007, Batch: '7292476', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7292476						
AC		**CalcC**	**McDowellD**	11/7/2007 7:17:53		
SC			wagarr	IsBatched	10/19/2007 2:37:32 PM	ICOC_RADCALC v4.8.29
SC			McDowellD	InSep1	11/7/2007 7:17:53 AM	RICH-RC-5022 REVISION 3
SC			McDowellD	Sep1C	11/8/2007 3:42:03 PM	RICH-RC-5022 REVISION 3
SC			DAWKINSO	InCnt1	11/8/2007 4:20:51 PM	RICH-RD-0001 REVISION 4
SC			DAWKINSO	CalcC	11/9/2007 10:11:40 PM	RICH-RD-0001 REVISION 4
AC			**McDowellD**	11/8/2007 3:42:03 PM		
AC			**DAWKINSO**	11/8/2007 4:20:51 PM		
AC			**DAWKINSO**	11/9/2007 10:11:40		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 4

ICOCFractions v4.8 30

10/12/2007 10:22:15 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 11/26/2007

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

Batch: 7285312 **WATER** **mg/L**
SEQ Batch, Test: None All Tests: 7285312 88EA,

PM, Quote: SA , 57671

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 J8THM-1-AA J7J120175-1-SAMP 10/11/2007 12:02		AmtRec: 20ML,500G,4XLP	#Containers: 6			Scr:	Alpha:	Beta:
2 J8THM-1-AE-S J7J120175-1-MS 10/11/2007 12:02		AmtRec: 20ML,500G,4XLP	#Containers: 6			Scr:	Alpha:	Beta:
3 J8THM-1-AF-D J7J120175-1-MSD 10/11/2007 12:02		AmtRec: 20ML,500G,4XLP	#Containers: 6			Scr:	Alpha:	Beta:
4 J8THM-1-AG-X J7J120175-1-DUP 10/11/2007 12:02		AmtRec: 20ML,500G,4XLP	#Containers: 6			Scr:	Alpha:	Beta:
5 J8TJ4-1-AA-B J7J120000-312-BLK 10/11/2007 12:02		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 J8TJ4-1-AC-C J7J120000-312-LCS 10/11/2007 12:02		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

TESTAMERICA RICHLAND
123

10/12/2007 10:22:19 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: 11/26/2007

Batch: 7285312 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

J8THM1AA-SAMP Constituent List:
HEXCHROME RDL:0.002 mg/L LCL:85 UCL:115 RPD:20
J8THM1AE-MS Constituent List:
HEXCHROME RDL:0.002 mg/L LCL:85 UCL:115 RPD:20
J8THM1AF-MSD:
HEXCHROME RDL:0.002 mg/L LCL:85 UCL:115 RPD:20
J8TJ41AA-BLK:
HEXCHROME RDL:0.002 mg/L LCL: UCL: RPD:
J8TJ41AC-LCS:
HEXCHROME RDL:0.002 mg/L LCL:85 UCL:115 RPD:20

J8THM1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8THM1AE-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8THM1AF-MSD:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8TJ41AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
J8TJ41AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____