

Analytical Data Package Prepared For

Fluor Hanford

Radiochemical Analysis By

TestAmerica TARL

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

Data Package Contains _____ Pages

Report Nbr: 39298

RECEIVED
JUL 28 2008
EDMC

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05383	I08-032	BIV211	J8D240157-1	KLXAT1AA	9KLXAT10	8127559
		BIV211	J8D240157-1	KLXAT1AC	9KLXAT10	8127557
		BIV211	J8D240157-1	KLXAT1AD	9KLXAT10	8127554
		BIV211	J8D240157-1	KLXAT1AE	9KLXAT10	8127549
		BIV215	J8D240157-2	KLXA21AA	9KLXA210	8127559
		BIV215	J8D240157-2	KLXA21AC	9KLXA210	8127557
		BIV215	J8D240157-2	KLXA21AD	9KLXA210	8127554
		BIV215	J8D240157-2	KLXA21AE	9KLXA210	8127549
		BIV231	J8D240157-3	KLXA31AA	9KLXA310	8127559
		BIV231	J8D240157-3	KLXA31AC	9KLXA310	8127557
		BIV231	J8D240157-3	KLXA31AD	9KLXA310	8127554
		BIV231	J8D240157-3	KLXA31AE	9KLXA310	8127549
	S08-012	BIRCP5	J8D240362-2	KL06A1AA	9KL06A10	8127547
		BIRCP5	J8D240362-2	KL06A1AC	9KL06A10	8127548
		BIRCP5	J8D240362-2	KL06A1AE	9KL06A10	8127552

Comments:

Report Nbr: 39298

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH		
W05383	S08-012	B1RCP9	J8D240362-3	KL0621AA	9KL06210	8127547		
		B1RCP9	J8D240362-3	KL0621AC	9KL06210	8127548		
		B1RCP9	J8D240362-3	KL0621AD	9KL06210	8127549		
		B1RCP9	J8D240362-3	KL0621AF	9KL06210	8127552		
		I08-025	B1VBY3	J8D240367-1	KL07D1AA	9KL07D10	8127559	
			B1VBY3	J8D240367-1	KL07D1AC	9KL07D10	8127547	
			B1VBY3	J8D240367-1	KL07D1AD	9KL07D10	8127548	
			B1VBY5	J8D240367-2	KL07G1AA	9KL07G10	8127559	
			B1VBY5	J8D240367-2	KL07G1AC	9KL07G10	8127547	
			B1VBY5	J8D240367-2	KL07G1AD	9KL07G10	8127548	
S08-003		B1TJ43	J8D240367-3	KL07K1AA	9KL07K10	8127559		
		B1TJ43	J8D240367-3	KL07K1AC	9KL07K10	8127547		
		B1TJ43	J8D240367-3	KL07K1AD	9KL07K10	8127548		
		B1VC02	J8D240367-4	KL07N1AA	9KL07N10	8127559		
		B1VC02	J8D240367-4	KL07N1AC	9KL07N10	8127547		
		B1VC02	J8D240367-4	KL07N1AD	9KL07N10	8127548		
		S08-004		B1TK90	J8D280196-1	KL6JP1AA	9KL6JP10	8127547
				B1TK90	J8D280196-1	KL6JP1AC	9KL6JP10	8127548
				B1TK90	J8D280196-1	KL6JP1AD	9KL6JP10	8127554
				B1TK90	J8D280196-1	KL6JP1AE	9KL6JP10	8127552
I08-032		B1TWX7	J8D280197-1	KL6KQ1AA	9KL6KQ10	8127559		
		B1TWX7	J8D280197-1	KL6KQ1AC	9KL6KQ10	8127547		
		B1TWX7	J8D280197-1	KL6KQ1AD	9KL6KQ10	8127548		
		B1TWX7	J8D280197-1	KL6KQ1AE	9KL6KQ10	8127555		
		B1TVY0	J8D280199-1	KL6K81AA	9KL6K810	8127554		
		B1TVY0	J8D280199-1	KL6K81AA	9KL6K810	8127559		

Comments:

Report Nbr: 39298

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05383	I08-032	BITVY0	J8D280199-1	KL6K81AC	9KL6K810	8127557
		BITVY0	J8D280199-1	KL6K81AD	9KL6K810	8127554
		BITVY3	J8D280199-2	KL6LA1AA	9KL6LA10	8127559
		BITVY3	J8D280199-2	KL6LA1AC	9KL6LA10	8127557
		BITVY3	J8D280199-2	KL6LA1AD	9KL6LA10	8127554
	I08-031	BITVV2	J8D290320-1	KL8MA1AA	9KL8MA10	8120534
	G08-004	BITVN9	J8D290322-1	KL8MM1AA	9KL8MM10	8127548
	G08-003	BITHC4	J8D290324-1	KL8MW1AA	9KL8MW10	8127553
		BITHC4	J8D290324-1	KL8MW1AC	9KL8MW10	8127554
	W08-004	BIV111	J8D300360-1	KMCD31AA	9KMCD310	8127547
		BIV111	J8D300360-1	KMCD31AC	9KMCD310	8127548
		BIV111	J8D300360-1	KMCD31AD	9KMCD310	8127550
		BIV111	J8D300360-1	KMCD31AE	9KMCD310	8127552
	W08-002	BITSV7	J8E010279-1	KMEM01AA	9KMEM010	8127547
		BITSV7	J8E010279-1	KMEM01AC	9KMEM010	8127548
		BITSV6	J8E010279-2	KMEM11AA	9KMEM110	8127547
		BITSV6	J8E010279-2	KMEM11AC	9KMEM110	8127548

Comments:

Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

June 13, 2008

Attention: Steve Trent

SAF Number : I08-032, S08-012, I08-025, S08-003, S08-004, I08-031,
G08-004, G08-003, W08-004, W08-002
Date SDG Closed : May 1, 2008
Number of Samples : Twenty (20)
Sample Type : Water
SDG Number : W05383
Data Deliverable : 45-Day / Summary

CASE NARRATIVE

I. Introduction

Between April 23, 2008 and May 1, 2008 twenty water samples were received at STL Richland (STLR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Fluor Hanford specific IDs:

<u>PGW ID#</u>	<u>STLR ID#</u>	<u>DATE OF RECEIPT</u>	<u>MATRIX</u>
B1V211	KLXAT	4/23/08	WATER
B1V215	KLXA2	4/23/08	WATER
B1V231	KLXA3	4/23/08	WATER
B1RDW8	KL058	4/24/08	WATER
B1RCP5	KL06A	4/24/08	WATER
B1RCP9	KL062	4/24/08	WATER
B1VBY3	KL07D	4/24/08	WATER
B1VBY5	KL07G	4/24/08	WATER
B1TJ43	KL07K	4/24/08	WATER
B1VC02	KL07N	4/24/08	WATER
B1TK90	KL6JP	4/28/08	WATER
B1TWX7	KL6KQ	4/28/08	WATER
B1TVY0	KL6K8	4/28/08	WATER

Fluor Hanford
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B1TVY3	KL6LA	4/28/08	WATER
B1TVV2	KL8MA	4/29/08	WATER
B1TVN9	KL8MM	4/29/08	WATER
B1THC4	KL8MW	4/29/08	WATER
B1V111	KMCD3	4/30/08	WATER
B1T5V7	KMEM0	5/01/08	WATER
B1T5V6	KMEM1	5/01/08	WATER

II. Sample Receipt

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

III. Analytical Results/Methodology

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

The requested analyses were:

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014

Gross Beta by method RICH-RC-5014

Strontium-90 by method RICH-RC-5006

Gamma Spectroscopy

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

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

Liquid Scintillation Counting

Enriched Tritium by method RICH-RC-5024

Technetium-99 by TEVA method RICH-RC-5065

Technetium-99 by method RICH-RC-5078

Tritium by method RICH-RC-5007

Carbon-14 by method RICH-RC-5022

Laser Induced Phosphorimetry

Total Uranium by method RICH-RC-5058

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.

Fluor Hanford
June 13, 2008

V. Comments

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:

Samples B1T5V7 and B1T5V7 DUP were analyzed with reduced aliquots based on weight screens. Except as noted, the LCS, batch blank, samples and sample duplicate (B1T5V7) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:

Samples B1T5V6 and B1T5V6 DUP were analyzed with reduced aliquots based on weight screens. The CRDL was not met on both samples; however the activity detected in the samples is greater than the IDC. Data will be accepted. Except as noted, the LCS, batch blank, samples and sample duplicate (B1T5V6) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006

Sample B1THC was analyzed with reduced aliquots based on weight screen. The CRDL was not met on this sample; however the activity detected in the sample is greater than the IDC. Data will be accepted. Except as noted, the LCS, batch blank, samples and sample duplicate (B1V215) results are within contractual requirements.

Gamma Spectroscopy

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

The LCS, batch blank, sample and sample duplicate (B1THC4) results are within contractual requirements.

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

The LCS, batch blank, samples and sample duplicate (B1TWX7) results are within contractual requirements.

Liquid Scintillation Counting

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

The LCS, batch blank, samples, sample duplicate (B1V215), and sample matrix spike (B1V231) results are within contractual requirements.

Technetium-99 by method RICH-RC-5078:

The LCS, batch blank, samples, sample duplicate (B1V111), and sample matrix spike (B1V111) results are within contractual requirements.

Tritium by method RICH-RC-5007:

The LCS, batch blank, samples and sample duplicate (B1VBY3) results are within contractual requirements.

Enriched Tritium by method RICH-RC-5024

TestAmerica Richland proposed to report W05383 without the enriched tritium results. The client accepted the proposed resolution (Tracking Number: 08-075) on June 3, 2008.

Fluor Hanford
June 13, 2008

Carbon-14 by method RICH-RC-5022:

The LCS, batch blank, samples and sample duplicate (B1TVY0) results are within contractual requirements.

Total Uranium

Total Uranium by method RICH-RC-5058:

The LCS, batch blank, samples, sample duplicate (B1V111), and sample matrix spike (B1TK90) results are within contractual requirements.

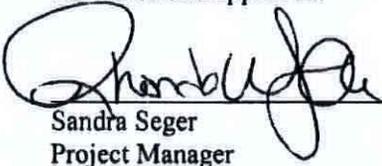
Chemical Analysis

Hexavalent Chromium by EPA method 7196A

The LCS, batch blank, sample, sample duplicate (B1TVV2), sample matrix spike (B1TVV2), and matrix spike duplicate (B1TVV2) results are within contractual requirements.

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

Reviewed and approved:


Sandra Seger
Project Manager

for

**TAL RICHLAND ISSUE RESOLUTION FORM
FOR CONTRACT 615 WITH BHI/FH**

Tracking Number: 08-075

SAF No.: S08-012

Date: May 29, 2008

SDG: W05383

Sample No.(s) B1RDW8, B1RCP5, B1RCP9

Submitted By: Sandra Seger

Submitted To: Steve Trent (FH)

Phone No. 509-375-3131 x158

Phone No. 509-373-5869

Fax No. 509-375-5590

Fax No. 866-252-5816

ISSUE

The enriched tritium's batch blanks have been above the CRDL. TA Richland has moved the enrichment process to another part of the laboratory in order to reduce possible continuation. Test blanks are being processed.

PROPOSED RESOLUTION

Report W05383 without the enriched tritium results. The enriched tritium results will be reported as W05383I when analysis is complete.

BHI/FH COMMENTS -

Accept proposed resolution.

Heidi Hampt 6/3/08
Signature and date

Seger, Sandra

From: Hampt, Heidi [Heidi_Hampt@RL.gov]
Sent: Tuesday, June 03, 2008 11:46 AM
To: Seger, Sandra
Cc: ^CPP Sample Management; Trent, Stephen J; Wagar, Rhonda; Powell, Linda L (Lin); Ayres, Doris E; Waters-husted, Karen S
Subject: RE: W05383 IRF (Due 6/16/08)(IRF is for H3EE)
Attachments: 08-075.DOC

Sandra,

Response is attached.

Thanks,
Heidi

From: Seger, Sandra [mailto:Sandra.Seger@testamericainc.com]
Sent: Monday, June 02, 2008 7:27 AM
To: Hampt, Heidi
Cc: Widrig, Dana L; Felmy, Diana; ^CPP Sample Management; Trent, Stephen J; Thompson, Christopher J; Wagar, Rhonda
Subject: W05383 IRF (Due 6/16/08)(IRF is for H3EE)

Drinking Water Method Cross References

DRINKING WATER ASTM METHOD CROSS REFERENCES		
Referenced Method	Isotope(s)	TestAmerica Richland's SOP No.
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

Results in this report relate only to the sample(s) analyzed.

Uncertainty Estimation

TestAmerica 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, $R = \text{constants} * f(x,y,z,...)$. 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/\sqrt{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 TestAmerica.
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) <i>u_c - Combined Uncertainty.</i>	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, <i>u_c the combined uncertainty.</i> 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 TestAmerica "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%. $Lc = (1.645 * \sqrt{2 * (BkgndCnt / BkgndCntMin) / SCntMin}) * (ConvFct / (Eff * Yld * Abn * Vol)) * IngrFct$. 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%. $MDC = (4.65 * \sqrt{((BkgndCnt / BkgndCntMin) / SCntMin) + 2.71 / SCntMin}) * (ConvFct / (Eff * Yld * Abn * Vol)) * IngrFct$. 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 TestAmerica upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

6/13/2008 10:58:13 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 39298 File Name: h:\Reportdb\ledd\Fead\W05383.Edd, h:\Reportdb\ledd\Fead\W05383.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:
9KL06210	B1RCP9		MW6-SBB-A1	S08-012	W05383				04/24/2008 09:37	
Batch 8127547	ALPHA	CAS# 12587-46-1	Result 2.00E+00	Unit pC/L	CntU 2S 1.2E+00	TotU 2S 1.2E+00	MDA 1.69E+00	TrcYield 100.0	Method 9310_ALPHABETA	Alq Size 1.564E-01
Batch 8127548	BETA	CAS# 12587-47-2	Result 1.61E+01	Unit pC/L	CntU 2S 2.3E+00	TotU 2S 3.0E+00	MDA 2.85E+00	TrcYield 100.0	Method 9310_ALPHABETA	Alq Size 2.001E-01
Batch 8127549	TC-99	CAS# 14133-76-7	Result 3.03E+01	Unit pC/L	CntU 2S 5.0E+00	TotU 2S 7.5E+00	MDA 9.85E+00	TrcYield 100.0	Method TC99_ETVDSK_LS	Alq Size 1.2502E-01
Batch 8127552	Uranium	CAS# 7440-61-1	Result 4.08E+00	Unit ug/L	CntU 2S 4.2E-01	TotU 2S 4.2E-01	MDA 8.42E-02	TrcYield 100.0	Method UTOT_KPA	Alq Size 2.49E-02

Lab Sample Id:	Client Id:	Test User:	Contract Nbr:	SAF Nbr:	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume:	Sample On Date:	Collection Date:
9KL06A10	B1RCP5		MW6-SBB-A1	S08-012	W05383				04/24/2008 10:30	
Batch 8127547	ALPHA	CAS# 12587-46-1	Result 2.92E+00	Unit pC/L	CntU 2S 1.9E+00	TotU 2S 2.0E+00	MDA 2.84E+00	TrcYield 100.0	Method 9310_ALPHABETA	Alq Size 1.669E-01
Batch 8127548	BETA	CAS# 12587-47-2	Result 1.34E+01	Unit pC/L	CntU 2S 2.1E+00	TotU 2S 2.7E+00	MDA 2.82E+00	TrcYield 100.0	Method 9310_ALPHABETA	Alq Size 1.999E-01
Batch 8127552	Uranium	CAS# 7440-61-1	Result 5.32E+00	Unit ug/L	CntU 2S 6.3E-01	TotU 2S 6.3E-01	MDA 8.32E-02	TrcYield 100.0	Method UTOT_KPA	Alq Size 2.52E-02

Lab Sample Id:	Client Id:	Test User:	Contract Nbr:	SAF Nbr:	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume:	Sample On Date:	Collection Date:
9KL07D10	B1VBV3		MW6-SBB-A1	I08-025	W05383				04/24/2008 10:34	
Batch 8127559	H-3	CAS# 10028-17-8	Result 3.62E+01	Unit pC/L	CntU 2S 1.3E+02	TotU 2S 1.5E+02	MDA 3.25E+02	TrcYield 100.0	Method 906.0_H3_LSC	Alq Size 5.00E-03
Batch 8127547	ALPHA	CAS# 12587-46-1	Result 7.71E-01	Unit pC/L	CntU 2S 8.0E-01	TotU 2S 8.2E-01	MDA 1.46E+00	TrcYield 100.0	Method 9310_ALPHABETA	Alq Size 1.999E-01
Batch 8127548	BETA	CAS# 12587-47-2	Result 2.24E+00	Unit pC/L	CntU 2S 1.3E+00	TotU 2S 1.4E+00	MDA 2.56E+00	TrcYield 100.0	Method 9310_ALPHABETA	Alq Size 1.999E-01

Lab Sample Id:	Client Id:	Test User:	Contract Nbr:	SAF Nbr:	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume:	Sample On Date:	Collection Date:
9KL07G10	B1VBV5		MW6-SBB-A1	I08-025	W05383				04/24/2008 11:20	
Batch 8127559	H-3	CAS# 10028-17-8	Result 1.62E+03	Unit pC/L	CntU 2S 1.9E+02	TotU 2S 2.2E+02	MDA 3.21E+02	TrcYield 100.0	Method 906.0_H3_LSC	Alq Size 5.00E-03
Batch 8127547	ALPHA	CAS# 12587-46-1	Result 1.28E+00	Unit pC/L	CntU 2S 1.0E+00	TotU 2S 1.1E+00	MDA 1.49E+00	TrcYield 100.0	Method 9310_ALPHABETA	Alq Size 1.853E-01
Batch 8127548	BETA	CAS# 12587-47-2	Result 4.75E+00	Unit pC/L	CntU 2S 1.7E+00	TotU 2S 1.8E+00	MDA 2.93E+00	TrcYield 100.0	Method 9310_ALPHABETA	Alq Size 2.003E-01

Lab Sample Id:	Client Id:	Test User:	Contract Nbr:	SAF Nbr:	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume:	Sample On Date:	Collection Date:
9KL07K10	B1TJ43		MW6-SBB-A1	I08-025	W05383				04/24/2008 09:34	
Batch 8127559	H-3	CAS# 10028-17-8	Result 2.46E+03	Unit pC/L	CntU 2S 2.1E+02	TotU 2S 2.5E+02	MDA 3.23E+02	TrcYield 100.0	Method 906.0_H3_LSC	Alq Size 5.00E-03

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

TestAmerica
 rptFeadRadSummaryEdd v3.48

6/13/2008 10:58:13 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 39298 File Name: h:\Reportdb\ledd\FeadIVRad\W05383.Edd, h:\Reportdb\ledd\FeadIVRad\39298.Edd

8127547	ALPHA	12587-46-1	1.10E+00	pCi/L	1.1E+00	1.1E+00	1.1E+00	U	1.75E+00	100.0	9310_ALPHABETA	1.725E-01	L	06/03/2008	09:37
8127548	BETA	12587-47-2	7.50E+00	pCi/L	1.9E+00	2.1E+00			3.11E+00	100.0	9310_ALPHABETA	2.003E-01	L	06/03/2008	19:42

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr	QC Type	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
9KL07N10	B1VC02		MW6-SBB-A1	I08-025	W05383					04/24/2008 12:05				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8127559	H-3	10028-17-8	2.80E+03	pCi/L	2.2E+02	2.7E+02	U	3.26E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/18/2008 06:41	I
8127547	ALPHA	12587-46-1	1.77E+00	pCi/L	1.3E+00	1.4E+00	U	1.92E+00	100.0	9310_ALPHABETA	1.667E-01	L	06/03/2008 09:37	I
8127548	BETA	12587-47-2	5.91E+00	pCi/L	1.7E+00	1.8E+00		2.79E+00	100.0	9310_ALPHABETA	2.005E-01	L	06/03/2008 19:42	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr	QC Type	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
9KL6JP10	B1TK90		MW6-SBB-A1	S08-003	W05383					04/28/2008 13:51				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8127547	ALPHA	12587-46-1	4.25E-01	pCi/L	8.5E-01	8.5E-01	U	1.91E+00	100.0	9310_ALPHABETA	1.665E-01	L	06/03/2008 09:37	I
8127548	BETA	12587-47-2	9.20E+00	pCi/L	1.9E+00	2.2E+00		2.82E+00	100.0	9310_ALPHABETA	2.002E-01	L	06/03/2008 19:42	I
8127554	SR-90	10098-97-2	1.61E-01	pCi/L	2.4E-01	2.7E-01	U	5.75E-01	69.7	SRISO_SEP_PRE	1.00E+00	L	06/04/2008 06:50	I
8127552	Uranium	7440-61-1	1.11E-01	ug/L	1.2E-02	1.2E-02		8.35E-02		UTOT_KPA	2.51E-02	ML	06/03/2008 10:49	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr	QC Type	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
9KL6K810	B1TYV0		MW6-SBB-A1	I08-032	W05383					04/28/2008 09:44				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8127559	H-3	10028-17-8	1.07E+03	pCi/L	1.7E+02	1.9E+02		3.25E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/18/2008 13:33	I
8127557	C-14	14762-75-5	1.16E+03	pCi/L	1.7E+01	4.7E+01		8.47E+00	100.0	C14_LSC	2.00E-01	L	06/03/2008 18:35	I
8127554	SR-90	10098-97-2	3.41E+00	pCi/L	4.1E-01	6.4E-01		4.13E-01	71.9	SRISO_SEP_PRE	1.00E+00	L	06/04/2008 06:50	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr	QC Type	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
9KL6KQ10	B1TWX7		MW6-SBB-A1	S08-004	W05383					04/28/2008 11:50				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8127559	H-3	10028-17-8	6.60E+03	pCi/L	3.0E+02	4.2E+02		3.24E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/18/2008 08:03	I
8127547	ALPHA	12587-46-1	7.04E-01	pCi/L	7.8E-01	7.9E-01	U	1.32E+00	100.0	9310_ALPHABETA	1.923E-01	L	06/03/2008 09:37	I
8127548	BETA	12587-47-2	1.81E+01	pCi/L	2.3E+00	3.3E+00		2.69E+00	100.0	9310_ALPHABETA	2.001E-01	L	06/03/2008 19:42	I
8127555	I-129L	15046-84-1	3.37E+00	pCi/L	5.2E-01	5.2E-01		2.41E-01	111.6	I129L_SEP_LEPS	3.8925E+00	L	05/23/2008 16:59	I
8127554	SR-90	10098-97-2	6.86E-02	pCi/L	3.2E-01	3.2E-01	U	6.88E-01	77.4	SRISO_SEP_PRE	1.00E+00	L	06/04/2008 06:50	I

TestAmerica

rptFeadRadSummaryEdd v3.48

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

6/13/2008 10:58:13 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 39298 File Name: h:\Reportdb\edd\FeadIVRadW05383.Edd, h:\Reportdb\edd\FeadIVRad\39298.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:			
9KLR1A10	R1TVY3		MW6-SBB-A1	I08-032	W05383					04/28/2008 09:14			
Batch	Analyste	CAS#	Result	Unit	CntU 2S	TotU 2S	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8127559	H-3	10028-17-8	1.49E+03	pCi/L	1.9E+02	2.1E+02	3.27E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/18/2008 14:56	I
8127557	C-14	14762-75-5	5.94E+02	pCi/L	1.3E+01	2.6E+01	8.47E+00	100.0	C14_LSC	2.00E-01	L	06/03/2008 20:01	I
8127554	SR-90	10098-97-2	9.37E-02	pCi/L	1.8E-01	1.8E-01	3.92E-01	79.6	SRISO_SEP_PRE	1.00E+00	L	06/04/2008 06:50	I

Lab Sample Id:	Client Id:	Test User:	Contract Nbr:	SAF Nbr:	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume:	Sample On Date:	Collection Date:			
9KLRMM10	B1TVN9		MW6-SBB-A1	G08-004	W05383					04/29/2008 09:31			
Batch	Analyste	CAS#	Result	Unit	CntU 2S	TotU 2S	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8127548	BETA	12587-47-2	1.18E+03	pCi/L	1.5E+01	1.5E+02	2.64E+00	100.0	9310_ALPHABETA	2.005E-01	L	06/03/2008 19:42	I

Lab Sample Id:	Client Id:	Test User:	Contract Nbr:	SAF Nbr:	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume:	Sample On Date:	Collection Date:			
9KLRMW10	B1THC4		MW6-SBB-A1	G08-003	W05383					04/29/2008 10:49			
Batch	Analyste	CAS#	Result	Unit	CntU 2S	TotU 2S	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8127553	BE-7	13966-02-4	1.93E+00	pCi/L	8.2E+00	8.2E+00	1.50E+01		GAMMALL_GS	2.5005E+00	L	06/04/2008 09:19	I
8127553	CO-60	10198-40-0	7.71E-01	pCi/L	1.1E+00	1.1E+00	2.10E+00		GAMMALL_GS	2.5005E+00	L	06/04/2008 09:19	I
8127553	CS-134	13967-70-9	2.19E-01	pCi/L	8.3E-01	8.3E-01	1.58E+00		GAMMALL_GS	2.5005E+00	L	06/04/2008 09:19	I
8127553	CS-137	10045-97-3	4.69E-01	pCi/L	8.3E-01	8.3E-01	1.57E+00		GAMMALL_GS	2.5005E+00	L	06/04/2008 09:19	I
8127553	EU-152	14683-23-9	1.13E+00	pCi/L	2.1E+00	2.1E+00	3.88E+00		GAMMALL_GS	2.5005E+00	L	06/04/2008 09:19	I
8127553	EU-154	15585-10-1	1.34E+00	pCi/L	2.9E+00	2.9E+00	5.58E+00		GAMMALL_GS	2.5005E+00	L	06/04/2008 09:19	I
8127553	EU-155	14391-16-3	2.24E+00	pCi/L	2.6E+00	2.6E+00	4.69E+00		GAMMALL_GS	2.5005E+00	L	06/04/2008 09:19	I
8127553	K-40	13966-00-2	1.22E+01	pCi/L	2.2E+01	2.2E+01	9.09E+00		GAMMALL_GS	2.5005E+00	L	06/04/2008 09:19	I
8127553	RU-106	13967-48-1	-1.41E-01	pCi/L	8.4E+00	8.4E+00	1.49E+01		GAMMALL_GS	2.5005E+00	L	06/04/2008 09:19	I
8127553	SB-125	14234-35-6	-1.13E+00	pCi/L	2.1E+00	2.1E+00	3.55E+00		GAMMALL_GS	2.5005E+00	L	06/04/2008 09:19	I
8127554	SR-90	10098-97-2	1.73E+03	pCi/L	1.6E+01	2.5E+02	2.20E+00	71.9	SRISO_SEP_PRE	2.6001E-01	L	06/04/2008 06:51	I

Lab Sample Id:	Client Id:	Test User:	Contract Nbr:	SAF Nbr:	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume:	Sample On Date:	Collection Date:			
9KLRXA210	B1V215		MW6-SBB-A1	I08-032	W05383					04/23/2008 09:07			
Batch	Analyste	CAS#	Result	Unit	CntU 2S	TotU 2S	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8127559	H-3	10028-17-8	3.06E+02	pCi/L	1.5E+02	1.6E+02	3.29E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/17/2008 22:26	I
8127557	C-14	14762-75-5	1.07E+01	pCi/L	3.9E+00	4.6E+00	8.47E+00	100.0	C14_LSC	2.00E-01	L	06/03/2008 17:10	I
8127554	SR-90	10098-97-2	7.33E-02	pCi/L	2.1E-01	2.5E-01	5.41E-01	76.6	SRISO_SEP_PRE	1.00E+00	L	06/04/2008 06:55	I

TestAmerica
 rptFeadRadSummaryEdd v3.48
 U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
 J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
 B Qual - Analyte was found in the associated laboratory blank above the MDC.

6/13/2008 10:58:14 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 39298 File Name: h:\Reportdb\edd\FeadIVRad\W05383.Edd, h:\Reportdb\edd\FeadIVRad\39298.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:			
8127549 TC-99		14133-76-7	3.76E+00	pCi/L	4.2E+00	6.0E+00	U	9.83E+00	100.0	TC99_ETVDSK_LS 1.2502E-01	L 05/15/2008 02:47		
9KXA310 B1V231			MW6-SBB-A1	I08-032	W05383						04/23/2008 11:21		
Batch Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8127559 H-3	10028-17-8	1.06E+02	pCi/L	1.4E+02	1.5E+02	U	3.24E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/17/2008 23:48	I
8127557 C-14	14762-75-5	8.15E-01	pCi/L	3.5E+00	4.3E+00	U	8.47E+00	100.0	C14_LSC	2.00E-01	L	06/03/2008 17:53	I
8127554 SR-90	10098-97-2	-8.95E-02	pCi/L	2.4E-01	2.8E-01	U	6.21E-01	82.1	SRISO_SEP_PRE	1.00E+00	L	06/04/2008 06:55	I
8127549 TC-99		14133-76-7	5.95E-01	pCi/L	4.1E+00	5.8E+00	U	9.84E+00	100.0	TC99_ETVDSK_LS 1.2502E-01	L	05/15/2008 04:52	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:			
8127549 TC-99		14133-76-7	1.75E+00	pCi/L	4.1E+00	5.9E+00	U	9.83E+00	100.0	TC99_ETVDSK_LS 1.2502E-01	L 05/15/2008 01:44		
9KXA310 B1V211			MW6-SBB-A1	I08-032	W05383						04/23/2008 09:08		
Batch Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8127559 H-3	10028-17-8	3.27E+02	pCi/L	1.4E+02	1.6E+02	U	3.22E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/17/2008 21:03	I
8127557 C-14	14762-75-5	7.78E+00	pCi/L	3.8E+00	4.5E+00	U	8.47E+00	100.0	C14_LSC	2.00E-01	L	06/03/2008 16:27	I
8127554 SR-90	10098-97-2	2.07E-01	pCi/L	2.6E-01	2.6E-01	U	5.36E-01	74.8	SRISO_SEP_PRE	1.00E+00	L	06/04/2008 06:55	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:			
8127552 Uranium		7440-61-1	2.85E+00	ug/L	2.9E-01	2.9E-01		8.35E-02	UTOT_KPA	2.51E-02	ML	06/03/2008 10:52	I
9KMEM010 B1V111			MW6-SBB-A1	W08-004	W05383							04/30/2008 13:21	
Batch Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8127547 ALPHA	12587-46-1	1.74E+00	pCi/L	1.1E+00	1.2E+00	U	1.23E+00	100.0	9310_ALPHABETA	2.001E-01	L	06/03/2008 09:37	I
8127548 BETA	12587-47-2	1.01E+01	pCi/L	1.9E+00	2.4E+00	U	2.75E+00	100.0	9310_ALPHABETA	2.001E-01	L	06/03/2008 19:42	I
8127550 TC-99		14133-76-7	1.35E+01	pCi/L	4.7E+00	6.9E+00	U	1.02E+01	100.0	TC99_SEP_LSC	1.2566E-01	L 06/05/2008 07:36	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:			
8127548 BETA		12587-47-2	2.40E-01	pCi/L	1.2E+00	1.2E+00	U	2.62E+00	100.0	9310_ALPHABETA 2.002E-01	L 06/03/2008 19:42	I	
9KMEM110 B1T5V6			MW6-SBB-A1	W08-002	W05383							04/29/2008 14:11	
Batch Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8127547 ALPHA	12587-46-1	1.86E-01	pCi/L	3.6E-01	3.7E-01	U	8.06E-01	100.0	9310_ALPHABETA	2.003E-01	L	06/03/2008 09:37	I

TestAmerica

rptFeadRadSummaryEdd v3.48

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

6/13/2008 10:58:14 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 39298 File Name: h:\Reportdb\edd\Fead\VRad\W05383.Edd, h:\Reportdb\edd\Fead\VRad\39298.Edd

Batch	Analyte	CAS#	Result	Unit	CritU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8127547	ALPHA	12587-46-1	1.59E+00	pCi/L	1.6E+00	1.7E+00	U	3.08E+00	100.0	9310_ALPHA BETA	1.086E-01	L	06/03/2008 11:13	I
8127548	BETA	12587-47-2	7.77E+02	pCi/L	1.7E+01	9.9E+01		5.12E+00	100.0	9310_ALPHA BETA	1.22E-01	L	06/03/2008 19:42	I

TestAmerica

rp\FeadRadSummaryEdd 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.

Friday, June 13, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Fead\VRad\W05383.Edd, h:\Reportdb\edd\Fead\VRad\39298.Edd

Lab Sample Id: KMMR11AB Sdg/Rept Nbr: W05383 39298 Collection Date: 04/29/2008 14:11
Client Id: NA Matrix: WATER WATER Sample On Date:
Moisture/Solids%*: QC Type: BLK Received Date: 05/01/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	F Suffix	R Typ
	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/	RPD/ UCL	RER/ UCL	LCS LCU/ UCL	R Typ
8127548 BLK	BETA 12587-47-2	-6.18E-01	pCi/L	1.1E+00 1.1E+00	U	2.55E+00	100.0		9310_ALPHAB	2.005E-01	UCL	UCL	LCL/ UCL	D
										L				19:42

TestAmerica
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.

Friday, June 13, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Fead\VRad\W05383.Edd, h:\Reportdb\edd\Fead\VRad\39298.Edd

Lab Sample Id: KMMR41AB **Sdg/Rept Nbr:** W05383 **Collection Date:** 04/23/2008 09:07
Client Id: NA **Matrix:** WATER **QC Type:** BLK **Sample On Date:**
Moisture/Solids%*: **Received Date:** 04/23/2008

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
8127549 BLK	TC-99 14133-76-7	2.28E+00	pC/L	5.9E+00 4.1E+00	U	9.83E+00	100.0		TC99_ETVDSK	1.2501E-01 L	05/15/2008 08:00				D

TestAmerica
 rptFeadRadEdd v3.68

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Friday, June 13, 2008 Lab Code: TARL

TestAmerica QC Blank Report

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Fead\VRad\W05383.Edd, h:\Reportdb\edd\Fead\VRad\39298.Edd

Lab Sample Id: KMMR61AB Sdg/Rept Nbr: W05383 Collection Date: 04/30/2008 13:21

Client Id: NA Matrix: WATER Sample On Date: 04/30/2008

Moisture/Solids%*: QC Type: BLK Received Date: 04/30/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Concl/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8127550 TC-99	14133-76-7	2.14E+00	pCi/L	6.3E+00	U	1.03E+01	100.0		TC99_SEP_LS	1.2517E-01	06/05/2008				D
				4.3E+00						L	10:44				

TestAmerica 3

rpt\FeadRadEdd 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.

Friday, June 13, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\VRad\W05383.Edd, h:\Reportdb\edd\Fead\VRad\39298.Edd

Lab Sample Id: KMMR91AB

Sdg/Rept Nbr: W05383

Collection Date: 04/30/2008 13:21

Client Id: NA

Matrix: WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 04/30/2008

SAF Nbr Contract Nbr
MW6-SBB-A19981

Test User Case Nbr SAS Nbr Suffix Decant Distilled Volume File Id FSuffix RTyp

BL H

Batch # / Analyt/
Qc Type CAS#
8127552 Uranium
BLK 7440-61-1

Result/
Orig Rat
0.00E+00

Unit ug/L
Tot/Cnt
Uncert 2S
0.00E+00
0.00E+00

Qu-
al
U
8.38E-02

MDC
Tracer
Yield
MDC
UTOT_KPA

Analy
Method
UTOT_KPA

Aliq
Size/
2.50E-02
ML

Date/Time
Analyzed
06/03/2008
10:33

RPD/
UCL
RER/
UCL
LCS
LCLUCL
Typ
D

TestAmerica

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.

Friday, June 13, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Fead\Rad\W05383.Edd, h:\Reportdb\edd\Fead\Rad\39298.Edd

Lab Sample Id: KMMT31DX
 Client Id: NA
 Moisture/Solids%*:

Sdg/Rept Nbr: W05383
 Matrix: WATER
 QC Type: BLK

Collection Date: 04/24/2008 10:34
 Sample On Date:
 Received Date: 04/24/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rest	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Concl %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCU/UCL	R Typ
8127559 BLK	H-3 10028-17-8	1.92E+02	pCi/L	1.6E+02 1.4E+02	U	3.39E+02	100.0		906.0_H3_LSC	5.00E-03	05/18/2008 10:48				D

TestAmerica

rpt\FeadRadEdd 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.

Friday, June 13, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\ledd\Fead\VRad\W05383.Edd, h:\Reportdb\ledd\Fead\VRad\39298.Edd

Lab Sample Id: KMMTD1AB Sdg/Rept Nbr: W05383 39298 Collection Date: 04/29/2008 10:49
 Client Id: NA Matrix: WATER WATER Sample On Date:
 Moisture/Solids%*: QC Type: BLK Received Date: 04/29/2008

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rat	Unit	Tot/Cnt Uncert 2S	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
8127553	BE-7	3.14E+00	pCi/L	1.4E+01	U	2.49E+01						
BLK	13966-02-4	1.00E+00	pCi/L	1.4E+00	U	2.91E+00						
8127553	CO-60	1.40E+00	pCi/L	1.4E+00	U	2.87E+00						
BLK	10198-40-0	-2.25E-02	pCi/L	1.2E+00	U	2.08E+00						
8127553	CS-134	1.40E+00	pCi/L	1.4E+00	U	2.08E+00						
BLK	13967-70-9	-9.98E-01	pCi/L	2.9E+00	U	5.06E+00						
8127553	CS-137	-7.85E-01	pCi/L	3.6E+00	U	6.57E+00						
BLK	10045-97-3	1.60E+00	pCi/L	2.3E+00	U	4.34E+00						
8127553	EU-152	-9.85E-01	pCi/L	2.7E+01	U	5.49E+01						
BLK	14683-23-9	2.22E+00	pCi/L	1.2E+01	U	2.18E+01						
8127553	EU-154	-9.91E-01	pCi/L	3.3E+00	U	5.66E+00						
BLK	15585-10-1			3.3E+00								
8127553	EU-155											
BLK	14391-16-3											
8127553	K-40											
BLK	13966-00-2											
8127553	RU-106											
BLK	13967-48-1											
8127553	SB-125											
BLK	14234-35-6											

TestAmerica 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.

Friday, June 13, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Feed\VRad\W05383.Edd, h:\Reportdb\edd\Feed\VRad\39298.Edd

Lab Sample Id: KMMR11CS Sdg/Rept Nbr: W05383 39298 Collection Date: 04/29/2008 14:11

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

Moisture/Solids%*: QC Type: BS Received Date: 05/01/2008

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	Toi/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spt Concl %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8127548	BETA	2.33E+01	pCi/L	3.8E+00		2.58E+00	100.0	2.25E+01	9310_ALPHA	2.003E-01	06/03/2008			70	D
BS	12587-47-2			2.5E+00				103.6		L	19:42			130	

TestAmerica
rptFeedRadEdd 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.

Friday, June 13, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Fead\VRad\W05383.Edd, h:\Reportdb\edd\Fead\VRad\39298.Edd

Lab Sample Id: KMMR61CS Sdg/Rept Nbr: W05383 39298 Collection Date: 04/30/2008 13:21
 Client Id: NA Matrix: WATER WATER Sample On Date:
 Moisture/Solids%*: QC Type: BS Received Date: 04/30/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Concl %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8127550 TC-99 BS	14133-76-7	5.18E+02	pCi/L	3.6E+01 1.3E+01	1.03E+01	100.0		5.44E+02 95.2	TC99_SEP_LS	1.2518E-01	06/05/2008 11:46			70	D

TestAmerica
rpt\FeadRadEdd 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.

Friday, June 13, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\ledd\Fead\VRad\W05383.Edd, h:\Reportdb\ledd\Fead\VRad\39298.Edd

Lab Sample Id: KMMR91CS **Sdg/Rept Nbr:** W05383 **Collection Date:** 04/30/2008 13:21
Client Id: NA **Matrix:** WATER **Decant:** **Sample On Date:** **Received Date:** 04/30/2008
Moisture/Solids%*: **QC Type:** BS

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Distilled Volume	File Id	FSuffix	RType
	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
8127552 BS	Uranium 7440-61-1	3.48E+01	ug/L	4.1E+00 4.1E+00		8.42E-02		3.64E+01 95.6	UTOT_KPA	2.49E-02 ML	06/03/2008 10:40			70 130	D

TestAmerica

rpt\FeadRadEdd 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.

Friday, June 13, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Fead\VRad\W05383.Edd, h:\Reportdb\edd\Fead\VRad\39298.Edd

Lab Sample Id: KMMR91DS Sdg/Rept Nbr: W05383 Collection Date: 04/30/2008 13:21
 Client Id: NA Matrix: WATER Decant: WATER Sample On Date:
 Moisture/Solids%*: QC Type: BS Received Date: 04/30/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType
BS	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	Analyt Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8127552	Uranium	3.30E+00	ug/L	3.4E-01		8.28E-02		3.57E+00	UTOT_KPA	2.53E-02	06/03/2008			70	D
				3.4E-01				92.5		ML	10:42			130	

TestAmerica
 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.

Friday, June 13, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Fead\W05383.Edd, h:\Reportdb\edd\Fead\W05383.Edd

Lab Sample Id: KMMRX1CS **Sdg/Rept Nbr:** W05383 **39298** **Collection Date:** 04/29/2008 08:00
Client Id: NA **Matrix:** WATER **WATER** **Sample On Date:**
Moisture/Solids%*: **QC Type:** BS **Received Date:** 05/01/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	F Suffix	R Typ
8127547	MW6-SBB-A19981								BP	H
BS										

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt	Uncert	2S	Qu- al	MDC	Tracer Yield	Spk Concl/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8127547	ALPHA	1.90E+01	pCi/L	4.4E+00	5.77E-01	2.0E+00	100.0	2.27E+01	9310_ALPHA	2.002E-01	9310_ALPHA	2.002E-01	06/03/2008	70	70	70	D
BS	12587-46-1							83.7				L	11:13				130

TestAmerica
 rpt\FeadRadEdd 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.

Friday, June 13, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Fead\VRad\W05383.Edd, h:\Reportdb\edd\Fead\VRad\39298.Edd

Lab Sample Id: KMMT31CS **Sdg/Rept Nbr:** W05383 **Collection Date:** 04/24/2008 10:34
Client Id: NA **Matrix:** WATER **WATER** **Sample On Date:**
Moisture/Solids%*: **QC Type:** BS **Received Date:** 04/24/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType
	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 LCU/UCL	R Typ
8127559 H-3		2.96E+03	pCi/L	2.7E+02	3.21E+02	100.0	906.0_H3_LSC	2.71E+03	906.0_H3_LSC	5.00E-03	05/17/2008 19:41			70	D
BS	10028-17-8			2.2E+02				109.0		L				130	

TestAmerica
rpt\FeadRadEdd 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.

Friday, June 13, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\ledd\Fead\VRad\W05383.Edd, h:\Reportdb\ledd\Fead\VRad\39298.Edd

Lab Sample Id: KMMTD1CS **Sdg/Rept Nbr:** W05383 **Collection Date:** 04/29/2008 10:49
Client Id: NA **Matrix:** WATER **Decant:** WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** BS **Received Date:** 04/29/2008

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spt Concl/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCU/ UCL	R Typ
8127553	CO-60	3.17E+01	pCi/L	5.2E+00	2.32E+00			3.05E+01	GAMMALL_GS	2.50E+00	06/04/2008 09:20			70	D
BS	10198-40-0			5.2E+00				103.9		L				130	
8127553	CS-137	3.92E+01	pCi/L	6.4E+00	2.49E+00			3.96E+01	GAMMALL_GS	2.50E+00	06/04/2008 09:20			70	D
BS	10045-97-3			6.4E+00				99.0		L				130	
8127553	EU-152	6.83E+01	pCi/L	1.2E+01	6.15E+00			6.06E+01	GAMMALL_GS	2.50E+00	06/04/2008 09:20			70	D
BS	14683-23-9			1.2E+01				112.8		L				130	

Contract Nbr
MW6-SBB-A19981

TestAmerica
rpt\FeadRadEdd 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.

Friday, June 13, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\ledd\Fead\VRad\W05383.Edd, h:\Reportdb\ledd\Fead\VRad\39298.Edd

Lab Sample Id: KMMTF1CS Sdg/Rept Nbr: W05383 39298 Collection Date: 04/23/2008 09:07
 Client Id: NA Matrix: WATER WATER Sample On Date:
 Moisture/Solids%*: QC Type: BS Received Date: 04/23/2008

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 Concl/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8127554 SR-90 BS	10098-97-2	1.51E+01	pCi/L	2.3E+00 7.7E-01	3.47E-01	78.5		1.35E+01 111.9	SRISO_SEP_P	1.00E+00	06/04/2008 06:51			70	D
										L				130	

TestAmerica
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.

Friday, June 13, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Fead\VRad\W05383.Edd, h:\Reportdb\edd\Fead\VRad\39298.Edd

Lab Sample Id: KMMTM1CS **Sdg/Rept Nbr:** W05383 **Collection Date:** 04/28/2008 11:50
Client Id: NA **Matrix:** WATER **Decant:** 39298 **Sample On Date:**
Moisture/Solids%*: **QC Type:** BS **Received Date:** 04/28/2008

SAF Nbr	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt	Qu- al	MDC	Tracer Yield	Spt Concl/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCU/UCL	R Typ	FSuffix	RTyp
8127555	I-129L	1.01E+01	pCi/L	1.2E+00	99.5	3.50E-01	99.5	9.96E+00	I129LL_SEP_L	3.8545E+00	05/23/2008			70	D		
BS	15046-84-1			1.2E+00				101.5		L	20:27			130		BZ	H

TestAmerica
 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.

Friday, June 13, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdbled\Fead\W05383.Edd, h:\Reportdbled\Fead\W05383.Edd

Lab Sample Id: KL07D1ER **Sdg/Rept Nbr:** W05383 **Collection Date:** 04/24/2008 10:34
Client Id: B1VBY3 DUP **Matrix:** WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 04/24/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType
108-025	MW6-SBB-A19981								AS	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Toi/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Concl %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8127559	H-3	1.16E+02	pCi/L	1.5E+02	U	3.24E+02	100.0		906.0_H3_LSC	5.00E-03	05/18/2008	104.8	0.7		D
DUP	10028-17-8	3.62E+01		1.4E+02						L	02:33	20.0	3		

TestAmerica
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.

Friday, June 13, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Fead\VRad\W05383.Edd, h:\Reportdb\edd\Fead\VRad\39298.Edd

Lab Sample Id: KL6K81ER
 Client Id: B1TVY0 DUP
 Moisture/Solids%*:

Sdg/Rept Nbr: W05383 Collection Date: 04/28/2008 09:44
 Matrix: WATER WATER Sample On Date:
 QC Type: DUP Received Date: 04/28/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType
108-032	MW6-SBB-A19981								AU	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Concl/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Type
8127557	C-14	1.15E+03	pCi/L	4.6E+01		8.47E+00	100.0		C14_LSC	2.00E-01	06/03/2008	1.5	0.5		D
DUP	14762-75-5	1.16E+03		1.7E+01						L	19:18	20.0	3		

TestAmerica

rpt\FeadRadEdd 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.

Friday, June 13, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Fead\VRad\W05383.Edd, h:\Reportdb\edd\Fead\VRad\39298.Edd

Lab Sample Id: KL6KQ1GR
 Client Id: B1TWX7 DUP
 Moisture/Solids%*:

Sdg/Rept Nbr: W05383
 Matrix: WATER
 QC Type: DUP

Collection Date: 04/28/2008 11:50
 Sample On Date:
 Received Date: 04/28/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType
S08-004	MW6-SBB-A19981								AV	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Concl/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCU/UCL	R Type
8127555	I-129L	3.48E+00	pCi/L	5.9E-01		3.41E-01	96.2		I129LL_SEP_L	3.9035E+00	05/23/2008	3.1	0.3		D
DUP	15046-84-1	3.37E+00		5.9E-01						L	18:43	20.0	3		

TestAmerica

rpt\FeadRadEdd 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.

Friday, June 13, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Report\bled\Fead\VRad\W05383.Edd, h:\Report\bled\Fead\VRad\39298.Edd

Lab Sample Id: KL8MW1DR **Sdg/Rept Nbr:** W05383 **Collection Date:** 04/29/2008 10:49
Client Id: B1THC4 DUP **Matrix:** WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 04/29/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	F Suffix	R Typ					
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	RE/ UCL	LCS LCU/UCL	R Typ
8127553	BE-7	-7.54E+00	pCi/L	2.0E+01	U	3.41E+01			GAMMALL_GS	2.5008E+00	06/04/2008	0.0	0.7		D
DUP	13966-02-4	1.93E+00	pCi/L	2.0E+01	U	3.16E+00			GAMMALL_GS	2.5008E+00	06/04/2008	0.0	1.3		D
8127553	CO-60	-9.79E-01	pCi/L	1.9E+00	U	3.75E+00			GAMMALL_GS	2.5008E+00	06/04/2008	162.9	1.4		D
DUP	10198-40-0	7.71E-01	pCi/L	1.9E+00	U	2.95E+00			GAMMALL_GS	2.5008E+00	06/04/2008	0.0	1.1		D
8127553	CS-134	2.14E+00	pCi/L	1.9E+00	U	8.07E+00			GAMMALL_GS	2.5008E+00	06/04/2008	0.0	0.7		D
DUP	13967-70-9	2.19E-01	pCi/L	1.8E+00	U	1.06E+01			GAMMALL_GS	2.5008E+00	06/04/2008	92.4	0.6		D
8127553	CS-137	-8.50E-01	pCi/L	1.8E+00	U	7.09E+00			GAMMALL_GS	2.5008E+00	06/04/2008	20.9	0.2		D
DUP	10045-97-3	4.69E-01	pCi/L	1.8E+00	U	7.63E+01			GAMMALL_GS	2.5008E+00	06/04/2008	0.0	2.3		D
8127553	EU-152	-1.14E+00	pCi/L	4.7E+00	U	2.64E+01			GAMMALL_GS	2.5008E+00	06/04/2008	0.0	0.2		D
DUP	14683-23-9	1.13E+00	pCi/L	4.7E+00	U	7.27E+00			GAMMALL_GS	2.5008E+00	06/04/2008	0.0	1.2		D
8127553	EU-154	3.64E+00	pCi/L	5.5E+00	U	4.6E+00			GAMMALL_GS	2.5008E+00	06/04/2008	20.0	3		D
DUP	15585-10-1	1.34E+00	pCi/L	5.5E+00	U				GAMMALL_GS	2.5008E+00	06/04/2008	20.0	3		D
8127553	EU-155	2.76E+00	pCi/L	4.1E+00	U				GAMMALL_GS	2.5008E+00	06/04/2008	20.9	0.2		D
DUP	14391-16-3	2.24E+00	pCi/L	4.1E+00	U				GAMMALL_GS	2.5008E+00	06/04/2008	20.0	3		D
8127553	K-40	-4.91E+01	pCi/L	3.7E+01	U				GAMMALL_GS	2.5008E+00	06/04/2008	0.0	2.3		D
DUP	13966-00-2	1.22E+01	pCi/L	3.7E+01	U				GAMMALL_GS	2.5008E+00	06/04/2008	0.0	0.2		D
8127553	RU-106	-2.47E+00	pCi/L	1.5E+01	U				GAMMALL_GS	2.5008E+00	06/04/2008	0.0	0.2		D
DUP	13967-48-1	-1.41E-01	pCi/L	1.5E+01	U				GAMMALL_GS	2.5008E+00	06/04/2008	20.0	3		D
8127553	SB-125	-5.06E+00	pCi/L	4.6E+00	U				GAMMALL_GS	2.5008E+00	06/04/2008	0.0	1.2		D
DUP	14234-35-6	-1.13E+00	pCi/L	4.6E+00	U				GAMMALL_GS	2.5008E+00	06/04/2008	20.0	3		D

TestAmerica

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 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.

Friday, June 13, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportbledd\Fead\Rad\W05383.Edd, h:\Reportbledd\Fead\Rad\39298.Edd

Lab Sample Id: KLXA21FR **Sdg/Rept Nbr:** W05383 **Collection Date:** 04/23/2008 09:07
Client Id: B1V215 DUP **Matrix:** WATER **Decant:** 39298 **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 04/23/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType
108-032	MW6-SBB-A19981								AX	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Toi/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCU/ UCL	R Type
8127549	TC-99	-7.20E-01	pCi/L	5.7E+00	U	9.81E+00	100.0		TC99_ETVDSK	1.2502E-01	05/15/2008 03:49	294.9	1.1		D
DUP	14133-76-7	3.76E+00		4.0E+00						L		20.0	3		

TestAmerica
rptFeadRadEdd v3.68

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Friday, June 13, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\ledd\Fead\W05383.Edd, h:\Reportdb\ledd\Fead\W05383.Edd

Lab Sample Id: KLXA21GR **Sdg/Rept Nbr:** W05383 **Collection Date:** 04/23/2008 09:07
Client Id: B1V215 DUP **Matrix:** WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 04/23/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType			
									AY	H			
108-032	MW6-SBB-A19981												
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Tracer Yield	Spk Concl %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8127554 DUP	SR-90 10098-97-2	4.67E-02 7.33E-02	pCi/L	2.9E-01 2.9E-01	U 73.2	6.31E-01	SRISO_SEP_P	1.00E+00	06/04/2008 06:55	44.2	0.1		D
								L		20.0	3		

TestAmerica

rptFeadRadEdd v3.68

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Friday, June 13, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Fead\VRad\W05383.Edd, h:\Reportdb\edd\Fead\VRad\39298.Edd

Lab Sample Id: KMCD31HR
Client Id: B1V111 DUP
Moisture/Solids%*:

Sdg/Rept Nbr: W05383
Matrix: WATER
QC Type: DUP

Collection Date: 04/30/2008 13:21
Sample On Date:
Received Date: 04/30/2008

SAF Nbr: W08-004
Contract Nbr: MW6-SBB-A19981

Test User: Case Nbr: SAS Nbr: Suffix: Decant: Distilled Volume: File Id: FSuffix: RType: 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/ ML	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8127552 DUP	Uranium 7440-61-1	2.86E+00 2.85E+00	ug/L	2.9E-01 2.9E-01	8.35E-02				UTOT_KPA	2.51E-02	06/03/2008 10:54	.5	0.1		D
												20.0	3		

TestAmerica
rpt\FeadRadEdd v3.68

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Friday, June 13, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\ledd\Fead\W05383.Edd, h:\Reportdb\ledd\Fead\W05383.Edd

Lab Sample Id: KMEM01DR Sdg/Rept Nbr: W05383 Collection Date: 04/29/2008 08:00
 Client Id: B1T5V7 DUP Matrix: WATER WATER Sample On Date:
 Moisture/Solids%*: QC Type: DUP Received Date: 05/01/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType
W08-002	MW6-SBB-A19981								BD	H

Batch #/ Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Concl/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	REU/ UCL	LCS LCL/UCL	R Typ
8127547 DUP	ALPHA	-1.63E-01	pCi/L	2.2E-01	U	8.75E-01	100.0		9310_ALPHA	2.002E-01	06/03/2008 10:49	3033.3	2.2		D
		1.86E-01		2.2E-01						L		20.0	3		

TestAmerica
 rpt\FeadRadEdd v3.68

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Friday, June 13, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Fead\VRad\W05383.Edd, h:\Reportdb\edd\Fead\VRad\39298.Edd

Lab Sample Id: KMEM11DR Sdg/Rept Nbr: W05383 Collection Date: 04/29/2008 14:11
 Client Id: B1T5V6 DUP Matrix: WATER WATER Sample On Date:
 Moisture/Solids%*: QC Type: DUP Received Date: 05/01/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType
W08-002	MW6-SBB-A19981								BE	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Toi/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Concl/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8127548 BETA		8.97E+02	pCi/L	1.1E+02		4.96E+00	100.0		9310_ALPHA	1.22E-01	06/03/2008	14.3	1.5		D
DUP	12587-47-2	7.77E+02		1.8E+01						L	19:42	20.0	3		

TestAmerica
 rpt\FeadRadEdd v3.68

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 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.

Friday, June 13, 2008

TestAmerica Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Fead\VRad\W05383.Edd, h:\Reportdb\edd\Fead\VRad\139298.Edd

Lab Sample Id: KL6JP1FW **Sdg/Rept Nbr:** W05383 **Collection Date:** 04/28/2008 13:51
Client Id: B1TK90 **Matrix:** WATER **Decant:** 39298 **Sample On Date:**
Moisture/Solids%*: **QC Type:** MS **Received Date:** 04/28/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-003	MW6-SBB-A19981								AT	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Allq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8127552 MS	Uranium 7440-61-1	3.46E+01	ug/L	4.1E+00 4.1E+00	8.32E-02			3.60E+01 96.1	UTOT_KPA	2.52E-02 ML	06/03/2008 10:51			60 140	D

TestAmerica
rptFeadRadEdd v3.68

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 B Qual- Analyte was found in the associated laboratory blank above the MDC.

Friday, June 13, 2008

TestAmerica Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Fead\IVRad\W05383.Edd, h:\Reportdb\edd\Fead\IVRad\39298.Edd

Lab Sample Id: KLXA31FW

Sdg/Rept Nbr: W05383 39298 Collection Date: 04/23/2008 11:21

Client Id: B1V231

Matrix: WATER WATER Sample On Date:

Moisture/Solids%*: MS Received Date: 04/23/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType
108-032	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 LCU/UCL	R Typ
8127549	TC-99	3.42E+03	pCi/L	2.1E+02		9.81E+00	100.0	3.62E+03	TC99_ETVDSK	1.25E-01	05/15/2008			60	D
MS	14133-76-7			3.2E+01				94.7		L	05:55			140	

TestAmerica
rpt\FeadRadEdd v3.68

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Friday, June 13, 2008

TestAmerica Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\Fead\VARad\W05383.Edd, h:\Reportdb\edd\Fead\VRad\39298.Edd

Lab Sample Id: KMCD31FW
 Client Id: B1V111
 Moisture/Solids%*:

Sdg/Rept Nbr: W05383
 Matrix: WATER
 QC Type: MS

Collection Date: 04/30/2008 13:21
 Sample On Date:
 Received Date: 04/30/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType					
W08-004	MW6-SBB-A19981								BA	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Toi/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spt Concl %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCU/UCL	R Typ
8127550 MS	TC-99 14133-76-7	3.31E+03	pCi/L	2.0E+02 3.2E+01	1.03E+01	100.0	100.0	3.62E+03 91.7	TC99_SEP_LS	1.2515E-01	06/05/2008 08:39	UCL	UCL	60	D
										L				140	

TestAmerica
 rpt\FeadRad\EdEdd v3.68

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 B Qual- Analyte was found in the associated laboratory blank above the MDC.

Analyst: L. Dinh		SOP Information		BATCH #						
Start Date:	4/29/2008	RICH-WC-5003		8120534						
Start Time:		Revision 7		W05383						
End Date:	4/29/2008			Water						
End Time:										
Instrument Information Instrument: Hach DR2010 Wavelength: 540 R Squared: 0.99994 Slope: 1.91705 Intercept: 0.00502										
Calibration Curve Information Amount Conc.(mg/L) ABS. Blank 0.000 0.000 0.000 Std. 1 0.100 0.050 0.098 Std. 2 0.500 0.250 0.487 Std. 3 0.750 0.375 0.731 Std. 4 1.500 0.750 1.448 Std 5 2.000 1.000 1.915 Standard Volume (mL): 100.000 Date of Curve: 4/29/2008										
ICV Information: Cr-08-00085 04/29/08 50 04/30/08 70,190 1.000 0.50000 1.00 0.50000 0.50 0.26316										
LCS Information: Cr-08-00085 04/29/08 50 04/30/08 190 1.00 0.50000 0.50 0.26316										
Matrix Spike Information: Cr-08-00085 04/29/08 50 04/30/08 190 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	0.970	0.000	0.970	1	0.5034	0.503	100.67%
n/a	n/a	ICB	100.000	0.000	0.000	0.000	1	<MDL	<MDL	
KL8QH1AA	n/a	Prep Blank	100.000	0.000	0.000	0.000	1	<MDL	<MDL	
KL8QH1AC	n/a	LCS	100.000	0.969	0.000	0.969	1	0.5028	0.503	100.57%
KL8MA1AA	BITVV2'	Sample	100.000	0.018	0.018	0.018	1	0.0068	0.007	
KL8MA1AC-S	BITVV2'-MS	MS	100.000	0.573	0.573	0.573	1	0.2963	0.2963	110.01%
KL8MA1AD-D	BITVV2'-MSD	MSD	100.000	0.517	0.517	0.517	1	0.2671	0.2671	98.91%
KL8MA1AE-X	BITVV2'-DUP	Duplicate	100.000	0.018	0.018	0.018	1	0.0068	0.007	54.54/30/08
			100.000							
			100.000							
			100.000							
			100.000							
n/a	n/a	CCV	100.000	0.969	0.000	0.969	1	0.5028	0.503	100.57%
n/a	n/a	CCB	100.000	0.000	0.000	0.000	1	<MDL	<MDL	
			100.000							
			100.000							
			100.000							
			100.000							

Lot No., Due Date: J8D240362, J8D240367, J8D280196, J8D280197, J8D300360, J8E010279; 06/16/2008
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 8127547; RALPHA-A Alpha by GPC-Am
SDG, Matrix: W05383; WATER

1.0 COC

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

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

3.0 QC & Samples

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

4.0 Raw Data

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

Yes No N/A

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

Yes No N/A

4.3 Were Yields entered correctly? Yes No N/A

Yes No N/A

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

Yes No N/A

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

Yes No N/A

5.0 Other

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

5.4 Was transcription checked? Yes No N/A

Yes No N/A

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

Yes No N/A

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

Yes No N/A

6.0 Comments on any No response:

Please see NCM # 10-12461

First Level Review

John Horton

Date

6-4-8

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8127547

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 notes

Second Level Review: Erich J. J. [Signature] Date: 6/14/8

Clouseau Nonconformance Memo



NCM #: 10-12461 NCM Initiated By: John Norton Date Opened: 06/04/2008 Date Closed:	Classification: Anomaly Status: GLREVIEW Production Area: Environmental - Prep Tests: None Lot #'s (Sample #'s): J8E010279 (2), QC Batches: None.,
Nonconformance: MDA not met Subcategory: Sample size reduced due to high residue mass	

Problem Description / Root Cause

<u>Name</u>	<u>Date</u>	<u>Description</u>
John Norton	06/04/2008	The IDC for this sample is approximately equal to the RDL because of a reduced aliquot size and a slightly high background in the detector.

Corrective Action

<u>Name</u>	<u>Date</u>	<u>Corrective Action</u>
John Norton	06/04/2008	The sample can be re-counted for a longer time frame if desired.

Client Notification Summary

<u>Client</u>	<u>Project Manager</u>	<u>Notified</u>	<u>Response</u>	<u>How Notified</u>	<u>Note</u>
			<u>Response</u>		<u>Response Note</u>

Quality Assurance Verification

<u>Verified By</u>	<u>Due Date</u>	<u>Status</u>	<u>Notes</u>
			This section not yet completed by QA.

Approval History

<u>Date Approved</u>	<u>Approved By</u>	<u>Position</u>
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Lot No., Due Date: J8D240362,J8D240367,J8D280196,J8D280197,J8D290322,J8D300360,J8E010279; 06/16/2008
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 8127548; RBETA-SR Beta by GPC-Sr/Y
SDG, Matrix: W05383; WATER

1.0 COC

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

✓ 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

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

3.0 QC & Samples

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

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

4.0 Raw Data

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

✓ Yes No N/A

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

✓ Yes No N/A

4.3 Were Yields entered correctly? Yes No N/A

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

5.0 Other

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

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

5.4 Was transcription checked? Yes No N/A

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

6.0 Comments on any No response:

Please see NCM # 10-12459

First Level Review _____ **Date** _____

Data Review Checklist RADIOCHEMISTRY Second Level Review

Batch Number: 8127548

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 Num

Second Level Review: Erika Jood Date: 4/4/8

Clouseau Nonconformance Memo



NCM #: 10-12459 NCM Initiated By: John Norton Date Opened: 06/04/2008 Date Closed:	Classification: Anomaly Status: GLREVIEW Production Area: Environmental - Prep Tests: None Lot #'s (Sample #'s): J8E010279 (2), QC Batches: None.,
Nonconformance: MDA not met Subcategory: Sample size reduced due to high residue mass	

Problem Description / Root Cause

<u>Name</u>	<u>Date</u>	<u>Description</u>
John Norton	06/04/2008	The sample and duplicate did not meet the RDL.

Corrective Action

<u>Name</u>	<u>Date</u>	<u>Corrective Action</u>
John Norton	06/04/2008	The activity detected in the sample and duplicate is greater than the IDC, the data can be accepted.

Client Notification Summary

<u>Client</u>	<u>Project Manager</u>	<u>Notified</u>	<u>Response</u>	<u>How Notified</u>	<u>Note</u>
	<u>Response</u>	<u>Response Note</u>			

Quality Assurance Verification

<u>Verified By</u>	<u>Due Date</u>	<u>Status</u>	<u>Notes</u>
		This section not yet completed by QA.	

Approval History

<u>Date Approved</u>	<u>Approved By</u>	<u>Position</u>

Lot No., Due Date: J8D280196, J8D280199, J8D280197, J8D290324, J8D240157; 06/16/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8127554; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05383; WATER

1.0 COC

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

✓ 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

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

3.0 QC & Samples

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

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

4.0 Raw Data

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

✓ Yes No N/A

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

✓ Yes No N/A

4.3 Were Yields entered correctly? Yes No N/A

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

5.0 Other

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

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

5.4 Was transcription checked? Yes No N/A

✓ Yes No N/A

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

✓ Yes No N/A

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

✓ Yes No N/A

6.0 Comments on any No response:

Please see NCM # 10-12474

First Level Review John North

Date 6-5-8

Data Review Checklist RADIOCHEMISTRY Second Level Review

Batch Number: 8127554

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: Sample screening revealed activity which prompted a reduced aliquot sample above CRL. C-NCM

Second Level Review: _____

Dr. Petty

Date: 06-05-08

Clouseau Nonconformance Memo



NCM #: 10-12474 NCM Initiated By: John Norton Date Opened: 06/05/2008 Date Closed:	Classification: Anomaly Status: GLREVIEW Production Area: Environmental - Prep Tests: None Lot #'s (Sample #'s): J8D290324 (1), QC Batches: None.,
Nonconformance: MDA not met Subcategory: Data accepted	

Problem Description / Root Cause

<u>Name</u>	<u>Date</u>	<u>Description</u>
John Norton	06/05/2008	This sample did not meet the RDL due to a reduced aliquot size prompted by activity detected in the sample during screening.

Corrective Action

<u>Name</u>	<u>Date</u>	<u>Corrective Action</u>
John Norton	06/05/2008	The activiity detected in the sample was greater than the IDC, the data can be accepted.

Client Notification Summary

<u>Client</u>	<u>Project Manager</u>	<u>Notified</u>	<u>Response</u>	<u>How Notified</u>	<u>Note</u>
			<u>Response</u>		<u>Response Note</u>

Quality Assurance Verification

<u>Verified By</u>	<u>Due Date</u>	<u>Status</u>	<u>Notes</u>
		This section not yet completed by QA.	

Approval History

<u>Date Approved</u>	<u>Approved By</u>	<u>Position</u>
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Lot No., Due Date: J8D290324; 06/16/2008
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 8127553; RGAMMA Gamma by GER
SDG, Matrix: W05383; WATER

1.0 COC

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

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

3.0 QC & Samples

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

4.0 Raw Data

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

Yes No N/A

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

Yes No N/A

4.3 Were Yields entered correctly? Yes No N/A

Yes No N/A

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

Yes No N/A

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

Yes No N/A

5.0 Other

5.1 Are all non-conformances included and noted? Yes No N/A

Yes No N/A

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

Yes No N/A

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

Yes No N/A

5.4 Was transcription checked? Yes No N/A

Yes No N/A

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

Yes No N/A

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

Yes No N/A

6.0 Comments on any No response:

First Level Review *John [Signature]*

Date 6-5-8

Data Review Checklist
RADIOCHEMISTRY
 Second Level Review

Batch Number: 812 7553

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: NO - NCM

Second Level Review: *[Signature]* Date: 06-05-08

Lot No., Due Date: J8D280197; 06/16/2008
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 8127555; RGAMLEPS Gamma by LEPS
SDG, Matrix: W05383; WATER

1.0 COC

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

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

3.0 QC & Samples

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

4.0 Raw Data

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

Yes No N/A

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

Yes No N/A

4.3 Were Yields entered correctly? Yes No N/A

Yes No N/A

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

Yes No N/A

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

Yes No N/A

5.0 Other

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

5.4 Was transcription checked? Yes No N/A

Yes No N/A

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

Yes No N/A

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

Yes No N/A

6.0 Comments on any No response:

First Level Review *JL Horton*

Date 5-28-08

Data Review Checklist RADIOCHEMISTRY Second Level Review

Batch Number: 8127SSS

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: *Erin Jordan* Date: 5/28/18

Lot No., Due Date: J8D240362, J8D240157; 06/16/2008
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 8127549; RTC99 Tc-99 by LSC
SDG, Matrix: W05383; WATER

1.0 COC

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

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

3.0 QC & Samples

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

4.0 Raw Data

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

Yes No N/A

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

Yes No N/A

4.3 Were Yields entered correctly? Yes No N/A

Yes No N/A

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

Yes No N/A

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

Yes No N/A

5.0 Other

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

5.4 Was transcription checked? Yes No N/A

Yes No N/A

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

Yes No N/A

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

Yes No N/A

6.0 Comments on any No response:

First Level Review *Jelic Norton* Date 5-20-08

Data Review Checklist
RADIOCHEMISTRY
 Second Level Review

Batch Number: 8127549

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

Comments on any "No" response: _____

Second Level Review: Erika Jod Date: 5/26/18

Lot No., Due Date: J8D300360; 06/16/2008
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 8127550; RTC99 Tc-99 by LSC
SDG, Matrix: W05383; WATER

1.0 COC

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

✓

2.0 QC Batch

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

✓

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

✓

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

✓

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

✓

3.0 QC & Samples

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

✓

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

✓

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

✓

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

✓

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

✓

4.0 Raw Data

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

✓

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

✓

4.3 Were Yields entered correctly? Yes No N/A

✓

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

✓

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

✓

5.0 Other

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

✓

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

✓

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

✓

5.4 Was transcription checked? Yes No N/A

✓

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

✓

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

✓

6.0 Comments on any No response:

First Level Review

John Horst

Date

6-9-8

Data Review Checklist RADIOCHEMISTRY Second Level Review

Batch Number: 8127550

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: Eiiko Ford Date: 6/9/18

Lot No., Due Date: J8D240367, J8D280199, J8D280197, J8D240157; 06/16/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8127559; RTRITIUM H-3 by LSC

SDG, Matrix: W05383; WATER

1.0 COC

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

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

3.0 QC & Samples

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

4.0 Raw Data

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

Yes No N/A

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

Yes No N/A

4.3 Were Yields entered correctly? Yes No N/A

Yes No N/A

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

Yes No N/A

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

Yes No N/A

5.0 Other

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

5.4 Was transcription checked? Yes No N/A

Yes No N/A

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

Yes No N/A

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

Yes No N/A

6.0 Comments on any No response:

First Level Review John Hartman

Date 5-20-08

Data Review Checklist
RADIOCHEMISTRY
 Second Level Review

Batch Number: 8127559

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: Erich Jada Date: 5/26/17

Lot No., Due Date: J8D280199,J8D240157; 06/16/2008
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 8127557; RC14 C-14 by LSC
SDG, Matrix: W05383; WATER

1.0 COC

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

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

3.0 QC & Samples

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

4.0 Raw Data

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

Yes No N/A

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

Yes No N/A

4.3 Were Yields entered correctly? Yes No N/A

Yes No N/A

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

Yes No N/A

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

Yes No N/A

5.0 Other

5.1 Are all non-conformances included and noted? Yes No N/A

Yes No N/A

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

Yes No N/A

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

Yes No N/A

5.4 Was transcription checked? Yes No N/A

Yes No N/A

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

Yes No N/A

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

Yes No N/A

6.0 Comments on any No response:

First Level Review *John Norton*

Date 6-5-8

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8127557

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

Comments on any "No" response: _____

Second Level Review: *Erika* Date: 6/9/8

Lot No., Due Date: J8D240362, J8D280196, J8D300360; 06/16/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8127552; RUNAT UNat by KPA

SDG, Matrix: W05383; WATER

1.0 COC

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

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

3.0 QC & Samples

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

4.0 Raw Data

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

Yes No N/A

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

Yes No N/A

4.3 Were Yields entered correctly? Yes No N/A

Yes No N/A

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

Yes No N/A

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

Yes No N/A

5.0 Other

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

Yes No N/A

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

Yes No N/A

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

Yes No N/A

5.4 Was transcription checked? Yes No N/A

Yes No N/A

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

Yes No N/A

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

Yes No N/A

6.0 Comments on any No response:

First Level Review John Hostas

Date 6-4-2

Data Review Checklist RADIOCHEMISTRY Second Level Review

Batch Number: 8127552

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: Erike Jord Date: 6/4/18

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Due 6/16

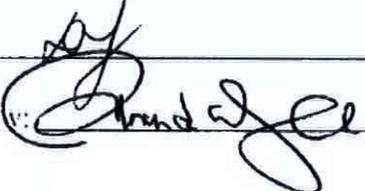
Batch Number(s): 8120534 <i>J8D 290320</i>				
Lab Sample Numbers or <i>Wp 5383</i>				
Method/Test/Parameter: Cr+6 in Water / RICII-WC-5003				
Review Item	Yes (✓)	No (✓)	N/A (✓)	2 nd Level Review (✓)
A. Initial Calibration				
1. Performed at required frequency with required number of levels?	✓			✓
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 LCS) 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 (✓)	2 nd 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: _____

Date: 4/30/08

Second-Level Review:  _____

Date: 6/13/08



Sample Check-in List

Date/Time Received: 42308 1430 GM Screen Result 0.1K
 Client: PAW SDG #: W05383 NA [] SAF #: I08-032 NA []
 Work Order Number: J8D240157 Chain of Custody # I08-032-98,-105,-119
 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 Hazard Labels
 Custody Seals Appropriate Sample Labels
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 [] Amount HNO₃ Added _____
11. Sample Location, Sample Collector Listed? *
*For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [] No
13. Description of anomalies (include sample numbers): _____

Sample Custodian: *RJP* Date: 42308

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____



Sample Check-in List

Date/Time Received: 42408 1450 GM Screen Result 0.1K

Client: PGW SDG #: W05383 NA [] SAF #: 508-012 NA []

Work Order Number: 18D240362 Chain of Custody # _____

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 Hazard Labels
 Custody Seals Appropriate Sample Labels

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 [] Amount HNO₃ Added _____

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

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

13. Description of anomalies (include sample numbers): _____

Sample Custodian: *RJP* Date: 42408

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[] No action necessary; process as is.

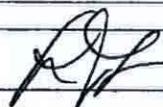
Project Manager _____ Date _____



Sample Check-in List

Date/Time Received: 42408 1450 GM Screen Result 0.1K
 Client: PAW SDG #: W05383 NA [] SAF #: I08-025 NA []
 Work Order Number: J8D240367 Chain of Custody # I08-025-155,-160,-163,-176
 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 Labels
 Custody Seals Appropriate Sample Labels
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 [] Amount HNO₃ Added _____
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: 42408

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____



Sample Check-in List

Date/Time Received: 42808 1440 GM Screen Result 0.1K

Client: PGW SDG #: W05383 NA [] SAF #: 508-003 NA []

Work Order Number: J8D280196 Chain of Custody # 508-003-110

Shipping Container ID: N/A Air Bill # N/A

1. Custody Seals on shipping container intact? NA [] Yes No []
2. Custody Seals dated and signed? NA [] Yes No []
3. Chain of Custody record present? NA [] Yes No []
4. Cooler Temperature: _____ NA 5. Vermiculite/packing materials is NA Wet [] Dry []
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA Yes [] No []
8. Samples have:

<input checked="" type="checkbox"/> Tape <input checked="" type="checkbox"/> Custody Seals	<input checked="" type="checkbox"/> Hazard Labels <input checked="" type="checkbox"/> Appropriate Sample Labels
---	--
9. Samples are:

<input checked="" type="checkbox"/> In Good Condition <input type="checkbox"/> Broken	<input type="checkbox"/> Leaking <input type="checkbox"/> Have Air Bubbles <small>(Only for samples requiring no head space.)</small>
--	---
10. Sample pH taken? NA [] pH < 2 pH > 2 [] pH > 9 [] Amount HNO₃ Added _____
11. Sample Location, Sample Collector Listed? *
*For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [] No
13. Description of anomalies (include sample numbers): _____

Sample Custodian: *RJR* Date: 42808

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

S08-004-221

180280197

W05383 DUE 61208 KLGKR

Page 1 of 0

Collect: Williamson

Contact/Requester
Sieve Tent

MSIN

Telephone No.
509-373-5869

FAX

Sampling Origin
Hanford Site

Purchase Order/Charge Code

Project Title
SURV_APRIL_2008

Method of Shipment
HMF-N-506-15

Temp.

Shipped To (Lab)
TestAmerica Incorporated, Richland

Ice Chest No. *SAC-161*

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
Site-Wide Generator Knowledge Information Form applies.

Total Activity Exemption: Yes No

Sample No.	Lab ID	* W	Date	Time	No/Type Container	Activity Scan	Sample Analysis	Preservative
BITWX7		W	4-21-08	1150	1x20-mL P		None	
BITWX7		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1) -	HNO3 to pH <2	
BITWX7		W			2x4000-mL G/P	1129LL_SEP_LEPS_GS_LL: I-129 (1) -	None	
BITWX7		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2) -	HNO3 to pH <2	
BITWX7		W			1x1000-mL P	906.0_H3_LSC: Tritium (1) -	None	

Relinquished By D. R. Williamson	Print <i>[Signature]</i>	Date/Time APR 28 2008	Received By <i>[Signature]</i>	Print LILGUE TAL	Date/Time APR 28 2008	Sign	Matrix *	
Relinquished By		Date/Time	Received By		Date/Time		S - Soil SF - Sediment SO - Solid SL - Sludge W - Water C - Oil A - Air	
Relinquished By		Date/Time	Received By		Date/Time		DS - Drum Solid DT - Drum Liquid T - Tissue WI - Wine LI - Liquid V - Vegetation X - Other	
Relinquished By		Date/Time	Received By		Date/Time			
FINAL SAMPLE DISPOSITION							Disposed By	Date/Time



Sample Check-in List

Date/Time Received: 42808 1440 GM Screen Result 0.11C

Client: PCW SDG #: W05383 NA [] SAF #: S08-004 NA []

Work Order Number: J8D280197 Chain of Custody # S08-004-221

Shipping Container ID: N/A Air Bill # N/A

1. Custody Seals on shipping container intact? NA [] Yes No []
2. Custody Seals dated and signed? NA [] Yes No []
3. Chain of Custody record present? NA [] Yes No []
4. Cooler Temperature: _____ NA 5. Vermiculite/packing materials is NA Wet [] Dry []

6. Number of samples in shipping container: 1

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

8. Samples have:

Tape
 Custody Seals

Hazard Labels
 Appropriate Sample Labels

9. Samples are:

In Good Condition
 Broken

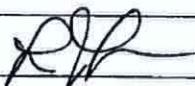
Leaking
 Have Air Bubbles
(Only for samples requiring no head space.)

10. Sample pH taken? NA [] pH < 2 pH > 2 pH > 9 [] Amount HNO₃ Added _____

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: 42808

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____



Sample Check-in List

Date/Time Received: 42808 1430 GM Screen Result 0.1K

Client: PGW SDG #: W05383 NA [] SAF #: T08-032-NA []

Work Order Number: J8D280199 Chain of Custody # T08-032-25,-31

Shipping Container ID: N/A Air Bill # N/A

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 Labels
 - Appropriate Sample Labels
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 [] Amount HNO₃ Added _____
11. Sample Location, Sample Collector Listed? *
*For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [] No
13. Description of anomalies (include sample numbers): _____

Sample Custodian: *RJP* Date: 42808

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[] No action necessary; process as is

Project Manager _____ Date _____



Sample Check-in List

Date/Time Received: 42908 1518 GM Screen Result 0.1K

Client: PGW SDG #: W05383 NA [] SAF #: I08-031 NA []

Work Order Number: J8D290320 Chain of Custody # I08-031-44

Shipping Container ID: N/A Air Bill # N/A

- 1. Custody Seals on shipping container intact? NA [] Yes No []
- 2. Custody Seals dated and signed? NA [] Yes No []
- 3. Chain of Custody record present? NA [] Yes No []
- 4. Cooler Temperature: _____ NA 5. Vermiculite/packing materials is NA Wet [] Dry []

6. Number of samples in shipping container: 1

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

8. Samples have:
 Tape Hazard Labels
 Custody Seals Appropriate Sample Labels

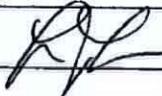
9. Samples are:
 In Good Condition Leaking
 Broken Have Air Bubbles
 (Only for samples requiring no head space.)

10. Sample pH taken? NA [] pH<2 [] pH>2 pH>9 [] Amount HNO₃ Added _____

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): _____

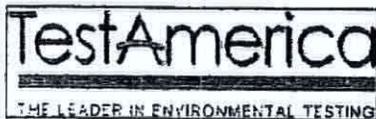
Sample Custodian:  Date: 42908

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[] No action necessary, process as is.

Project Manager _____ Date _____



Sample Check-in List

Date/Time Received: 42908 1518 GM Screen Result 0.1K

Client: PGW SDG #: W05383 NA [] SAF #: G08-004 NA []

Work Order Number: J80290322 Chain of Custody # G08-004-10

Shipping Container ID: N/A Air Bill # N/A

- 1. Custody Seals on shipping container intact? NA [] Yes No []
- 2. Custody Seals dated and signed? NA [] Yes No []
- 3. Chain of Custody record present? NA [] Yes No []
- 4. Cooler Temperature: _____ NA 5. Vermiculite/packing materials is NA Wet [] Dry []

6. Number of samples in shipping container: 1

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

8. Samples have:
 Tape Hazard Labels
 Custody Seals Appropriate Sample Labels

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 [] Amount HNO₃ Added _____

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: 42908

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

G08-003-64

J8D290324 W05383 Due 06 13 08

Page 1 of 1

Collector **D. J. Spats**

Contact/Requester

Telephone No. MSIN

SAF No. G08-003

Sludge Type

509-373-5869

Project Title

Sampling Origin

Purchase Order/Charge Code

INR2-RB, MARCH 2008

Hanford Site

Ice Chest No. **SM-L-461**

Shipped To (Lab)

Method of Shipment

Temp.

TestAmerica Incorporated, Richland

Govt. Vehicle

Bill of Lading/Air Bill No.

Protocol

Priority: 45 Days

Offsite Property No.

SURY

SPECIAL INSTRUCTIONS

Hold Time

POSSIBLE SAMPLE HAZARDS/REMARKS

100 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes No

** 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)

Sample No.

Lab ID

Date

B1THC4

W

4-29-08

Time

No/Type Container

Activity Scan

1049

1x20-mL P

None

B1THC4

W

↓

B1THC4

W

↓

3x1000-mL GIP

GAMMALL_GS: List-1 (9)

SRISO_SEP_PRECIP_GPC: Sr-90 (1)

HNO3 to pH <2

HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
D. J. Spats			APR 29 2008	RA STEPHARD			APR 29 2008	S SF SO SL W O A
Relinquished By				F M HALL			4-29-08	Soil Sediment Solid Sludge Winter Oil Air
Relinquished By				R L WILKINS			4-29-08	DS DI T WT L V X
Relinquished By				F M HALL			4-29-08	Drum Solid Drum Liquid Tissue Wine Fruit Vegetation Other

Disposed By

Disposal Method (e.g., Return to customer, per lab procedure, used in process)

Disposal Method (e.g., Return to customer, per lab procedure, used in process)

Date/Time



Sample Check-in List

Date/Time Received: 42908 1518 GM Screen Result 0.1K

Client: PGW SDG #: 005383 NA [] SAF #: G08-003 NA []

Work Order Number: J80290824 Chain of Custody # G08-003-64

Shipping Container ID: N/A Air Bill # N/A

- 1. Custody Seals on shipping container intact? NA [] Yes No []
- 2. Custody Seals dated and signed? NA [] Yes No []
- 3. Chain of Custody record present? NA [] Yes No []
- 4. Cooler Temperature: _____ NA 5. Vermiculite/packing materials is NA Wet [] Dry []

6. Number of samples in shipping container: 1

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

8. Samples have:
 Tape Hazard Labels
 Custody Seals Appropriate Sample Labels

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 [] Amount HNO₃ Added _____

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: 42908

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____



Sample Check-in List

Date/Time Received: 430 08 1500 GM Screen Result 0.1K

Client: PCW SDG #: W05383 NA [] SAF #: W08-004 NA []

Work Order Number: J8D300360 Chain of Custody # W08-004-141

Shipping Container ID: NIA Air Bill # NIA

- 1. Custody Seals on shipping container intact? NA [] Yes No []
- 2. Custody Seals dated and signed? NA [] Yes No []
- 3. Chain of Custody record present? NA [] Yes No []
- 4. Cooler Temperature: _____ NA 5. Vermiculite/packing materials is NA Wet [] Dry []

6. Number of samples in shipping container: 1

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

8. Samples have:

Tape
 Custody Seals

Hazard Labels
 Appropriate Sample Labels

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 [] Amount HNO₃ Added _____

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: 4/30/08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[] No action necessary, process as is.

Project Manager _____ Date _____



Sample Check-in List

Date/Time Received: 05-01-08 1310 GM Screen Result .1

Client: PEW SDG #: W05383 NA [] SAF #: W08 002 NA []

Work Order Number: J8E010279 Chain of Custody # W08-002-340,341

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 _____ 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 [] Amount HNO₃ Added None
- 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: 5/1/08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____

5/22/2008 1:56:29 PM

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

Sample Preparation/Analysis

AZ Gross Alpha PrRC5014
S7 Gross Alpha by GPC using Am-241 curve
5I CLIENT: HANFORD

Balance Id: 1120482733

Pipet #: *245*

AnalysDueDate: 06/09/2008 *W05383*

Sep1 DT/Tm Tech:

Batch: 8127547 WATER

PM, Quote: SS, 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: *HarrisD | Beck 3*

Work Order, Lot, Sample Date Time	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 KL06A-1-AA J8D240362-2-SAMP 04/24/2008 10:30 AmtRec: VIAL20,500MLP,4XLP #Containers: 6	166.60g.in			1.5		50	11B	<i>42.7</i> 926-1104 1003		
2 KL062-1-AA J8D240362-3-SAMP 04/24/2008 09:37 AmtRec: VIAL20,2X500MLP,4XLP #Containers: 7	156.40g.in					100	11A	1205		<i>6/7/08 KL</i>
3 KL07D-1-AC J8D240367-1-SAMP 04/24/2008 10:34 AmtRec: VIAL20,2XLP #Containers: 3	199.90g.in					50	11C	<i>11.9</i> 692E-1104 1003		Beta: 1.77E-03 uCi/Sa
4 KL07G-1-AC J8D240367-2-SAMP 04/24/2008 11:20 AmtRec: VIAL20,2XLP #Containers: 3	185.30g.in						11D			Beta: 8.14E-07 uCi/Sa
5 KL07K-1-AC J8D240367-3-SAMP 04/24/2008 09:34 AmtRec: VIAL20,2XLP #Containers: 3	172.50g.in						10A			Beta: 1.49E-04 uCi/Sa
6 KL07N-1-AC J8D240367-4-SAMP 04/24/2008 12:05 AmtRec: VIAL20,2XLP #Containers: 3	166.70g.in						10B			Beta: 1.27E-04 uCi/Sa
7 KL6JP-1-AA J8D280196-1-SAMP 04/28/2008 13:51 AmtRec: VIAL20,500MLP,4XLP #Containers: 6	166.50g.in						10C			Beta: 7.17E-05 uCi/Sa

5/22/2008 1:56:32 PM

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

Sample Preparation/Analysis

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

Balance Id: 1120482733

Pipet #:

Analyte Due Date: 06/09/2008

Batch: 8127547 WATER pCi/L

SEQ Batch, Test: None

PM, Quote: SS, 57671

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: HarrisD

Work Order, Lot, Sample Date Time	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 KL6KG-1-AC		192.30g,in		1.5	32.1	50	107	1007		6/17/08 ML
J8D280197-1-SAMP										
04/28/2008 11:50										
9 KMCD3-1-AA		200.10g,in								
J8D300360-1-SAMP										
04/30/2008 13:21										
10 KMEM0-1-AA		200.30g,in								
J8E010279-1-SAMP										
04/29/2008 08:00										
11 KMEM0-1-AD-X		200.20g,in								
J8E010279-1-DUP										
04/29/2008 08:00										
12 KMEM1-1-AA		108.60g,in								
J8E010279-2-SAMP										
04/29/2008 14:11										
13 KMMRX-1-AA-B		200.40g,in								
J8E060000-547-BLK										
04/29/2008 08:00										
14 KMMRX-1-AC-C		200.20g,in								
J8E060000-547-LCS										
04/29/2008 08:00										

5/22/2008 1:56:33 PM

Sample Preparation/Analysis

Balance Id: 1120482733

AZ Gross Alpha PrpRC5014

S7 Gross Alpha by GPC using Am-241 curve

AnalDueDate: 06/09/2008

Batch: 8127547

SEQ Batch, Test: None

PC/L

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD

Work Order, Lot, Sample Date Time	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:
<p>Comments: <i>PH2.0. Aliquots reduced due to wt screens but spajs</i></p>										

All Clients for Batch:

384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SS, 57671

KL06A1AA-SAMP Constituent List:

ALPHA RDL:3	PCI/L	LCL:	DCL:	RPD:
K06RX1AA-BLK:	PCI/L	LCL:	UCL:	RPD:
Am-241	PCI/L	LCL:70	UCL:130	RPD:20
KL06A1AA-SAMP Calc Info:	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KL06RX1AA-BLK:	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
K06RX1AC-LCS:	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

Approved By

Date:

TAL Richland
Richland Wa.

Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 3

ISV - Insufficient Volume for Analysis

WO Cnt: 14

Prep_SamplePrep v4.8.32

6/4/2008 11:18:04 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/5/2007, 6/9/2008, Batch: '8127547', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
8127547				
AC	Rev1C	HarrisD	5/22/2008 1:52:52 PM	
SC		wagarr	IsBatched	5/6/2008 3:58:28 PM
SC		HarrisD	InPrep	5/22/2008 1:52:52 PM
SC		HarrisD	Prep1C	5/22/2008 1:56:34 PM
SC		BockJ	InPrep2	5/30/2008 8:15:00 AM
SC		BockJ	Prep2C	6/2/2008 5:59:33 PM
SC		DAWKINSO	InCnt1	6/2/2008 6:15:32 PM
SC		ClarkR	CalcC	6/3/2008 12:51:02 PM
SC		nortonj	Rev1C	6/4/2008 11:17:55 AM
AC		HarrisD	5/22/2008 1:56:34 PM	
AC		BockJ	5/30/2008 8:15:00	
AC		BockJ	6/2/2008 5:59:33 PM	
AC		DAWKINSO	6/2/2008 6:15:32 PM	
AC		ClarkR	6/3/2008 12:51:02 PM	
AC		nortonj	6/4/2008 11:17:55	

AC: Accepting Entry; SC: Status Change

TAL Richland
Richland Wa.

5/22/2008 2:31:12 PM

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

AnalyDueDate: 06/09/2008 **WDS383**
Batch: 8127548 WATER pCi/L
SEQ Batch, Test: None

Sample Preparation/Analysis

BC Gross Beta PrpRCS014
S8 Gross Beta by GPC using Sr/Y-90 curve
SI CLIENT: HANFORD

Balance Id: 1120482733

Pipet #: *225*

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

PM, Quote: SS, 57671

Prep Tech: *Harris D Beck J*

Work Order, Lot, Sample Date/Time	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 KL06A-1-AC		199.90g,in		1.5		100	260	1739		<i>6/2/0800</i>
J8D240362-2-SAMP 04/24/2008 10:30					114.9					
2 KL062-1-AC		200.10g,in								
J8D240362-3-SAMP 04/24/2008 09:37					109.3		31A			
3 KL07D-1-AD		199.90g,in								
J8D240367-1-SAMP 04/24/2008 10:34					38.7		31B			
4 KL07G-1-AD		200.30g,in								
J8D240367-2-SAMP 04/24/2008 11:20					83.8		31D			
5 KL07K-1-AD		200.30g,in								
J8D240367-3-SAMP 04/24/2008 09:34					100.3		26A	2042		
6 KL07N-1-AD		200.50g,in								
J8D240367-4-SAMP 04/24/2008 12:05					84.5		26B			
7 KL6JP-1-AC		200.20g,in								
J8D280196-1-SAMP 04/28/2008 13:51					83.5		26C			

TAL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1

Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ISV - Insufficient Volume for Analysis

WO Cnt: 7

Prep_SamplePrep v4.8.32

5/22/2008 2:31:14 PM

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
SI CLIENT: HANFORD

Batch: 8127548 WATER

PM, Quote: SS, 57671

Sep1 DT/Tm Tech:

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: HarrisD

Work Order, Lot, Sample Date/Time	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 KL6KQ-1-AD J8D280197-1-SAMP 04/28/2008 11:50	200.10g,in	200.10g,in		1.5	60.9	100	26D	2042		Beta: -6.60E-04 uCi/Sa 6/3/0802
9 KL8MM-1-AA J8D290322-1-SAMP 04/29/2008 09:31	200.50g,in	200.50g,in			36.4		27A			Alpha: 6.67E-04 uCi/Sa Beta: 1.15E-04 uCi/Sa
10 KMCD3-1-AC J8D300360-1-SAMP 04/30/2008 13:21	200.10g,in	200.10g,in			80.6		27B			Alpha: 3.76E-04 uCi/Sa Beta: 1.15E-04 uCi/Sa
11 KMEM0-1-AC J8E010279-1-SAMP 04/29/2008 08:00	200.20g,in	200.20g,in			0.4		27D			Alpha: 8.78E-05 uCi/Sa Beta: -3.78E-04 uCi/Sa
12 KMEM1-1-AC J8E010279-2-SAMP 04/29/2008 14:11	122.00g,in	122.00g,in			126.9		32A			Alpha: 1.21E-04 uCi/Sa Beta: 3.75E-05 uCi/Sa
13 KMEM1-1-AD-X J8E010279-2-DUP 04/29/2008 14:11	122.00g,in	122.00g,in			128.7		32B			Alpha: 2.86E-04 uCi/Sa Beta: -1.17E-04 uCi/Sa
14 KMMR1-1-AA-B J8E060000-548-BLK 04/29/2008 14:11	200.50g,in	200.50g,in			0.3		32C			Alpha: 2.86E-04 uCi/Sa Beta: -1.17E-04 uCi/Sa

Beta:

Alpha:

Scr:

#Containers:

AmtRec:

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:

WO Cnt: 14
Prep_SamplePrep v4.8.32

ISV - Insufficient Volume for Analysis

Page 2

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

5/22/2008 2:31:15 PM

Sample Preparation/Analysis

Balance Id: 120482733

BC Gross Beta PpRC5014

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

51 CLIENT: HANFORD

AnalytDueDate: 06/09/2008

Batch: 8127548

SEQ Batch, Test: None

pCi/L

Prep Tech: HarrisD

Work Order, Lot, Sample Date Time	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 KMMR1-1-AC-C	200.30g.in		BESB3250	1.5	0.5	100	28D	2042	6/3/08 GAO	

J8E060000-548-LCS

04/17/08.pd

08/09/08

#Containers: 1

Amt/Rec

Scr:

Alpha:

Beta:

Comments: *At 20.0 Augments reduced due to wt screens out 5/22/08*

All Clients for Batch:

384868, Pacific Northwest National Laboratory

Pacific Northwest National Lab, SS, 57671

KL06A1AC-SAMP Constituent List:

BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
KMMR11AA-BLK:					
BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
KMMR11AC-LCS:					
Sr-90	RDL:	pCi/L	LCL:70	UCL:130	RPD:20
KL06A1AC-SAMP Calc Info:					
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B	
KMMR11AA-BLK:					
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B	
KMMR11AC-LCS:					
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B	

Approved By

Date:

TAL Richland
Richland Wa.

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

ISV - Insufficient Volume for Analysis

WO Cnt: 15

Prep_SamplePrep v4.8.32

6/4/2008 10:51:27 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/5/2007, 6/9/2008, Batch: '8127548', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting	Comments
8127548					
AC		Rev1C	HarrisD	5/22/2008 1:19:30 PM	
SC			wagarr	IsBatched 5/6/2008 3:58:28 PM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep 5/22/2008 1:19:30 PM	RICH-RC-5014 Revision 7
SC			HarrisD	Prep1C 5/22/2008 2:31:17 PM	RICH-RC-5014 REVISION 7
SC			BockJ	InPrep2 5/30/2008 8:15:06 AM	RICH-RC-5014 REVISION 7
SC			ClarkR	InCnt1 6/3/2008 2:38:43 PM	RICH-RD-0003 REVISION 5
SC			BockJ	Prep2C 6/3/2008 3:20:39 PM	RICH-RC-5014 REVISION 7
SC			DAWKINSO	CalcC 6/3/2008 9:36:53 PM	RICH-RD-0003 REVISION 5
SC			nortonj	Rev1C 6/4/2008 10:51:17 AM	RICH-RC-0002 REV 8
AC			HarrisD	5/22/2008 2:31:17 PM	
AC			BockJ	5/30/2008 8:15:06	
AC			ClarkR	6/3/2008 2:38:43 PM	
AC			BockJ	6/3/2008 3:20:39 PM	
AC			DAWKINSO	6/3/2008 9:36:53 PM	
AC			nortonj	6/4/2008 10:51:17	

AC: Accepting Entry; SC: Status Change

TAL Richland
Richland Wa.

6/2/2008 12:37:35 PM

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

Sample Preparation/Analysis

CL Sr-90 Prp/SeprCS006(5071)
TL Sr-85 by NaI and Sr-90 by GPC 7 day ingrowth
51 CLIENT: HANFORD

Balance Id:
Pipet #:

Sep1 DT/Tm Tech: 05/21/2008 15:15,ManisD
Sep2 DT/Tm Tech: 06/02/2008 08:51,ManisD

Batch: 8127554 WATER pCi/L PM, Quote: SS, 57671

SEQ Batch, Test: None All Tests: 8127549 FPS5, 8127554 CLTL, 8127557 5SS3, 8127559 ARS6,

Prep Tech: ,Barcoli

Work Order, Lot, Sample Date Time	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 KLXAT-1-AD	1000.02g,in	SRTB16151	04/22/08,pd		1.0	22.9	100	5A	0600	1/3/08S	
J8D240157-1-SAMP			05/22/07					ZF	0746	6/4/08RC	
-----65212008-15:15:st,06/02/2008-----											
04/23/2008 09:08	AmtRec: VIAL20,500MLP,6XLP		#Containers: 8	Alpha: -8.39E-04 uCi/Sa		Beta: 7.71E-04 uCi/Sa					
2 KLXA2-1-AD	1000.02g,in	SRTB16152	04/22/08,pd		1.0	22.5	100	2B	0640	6/3/08S	
J8D240157-2-SAMP			05/22/07					2B	0746	6/4/08RC	
-----65212008-15:15:st,06/02/2008-----											
04/23/2008 09:07	AmtRec: VIAL20,500MLP,6XLP		#Containers: 8	Alpha: -5.95E-04 uCi/Sa		Beta: 9.14E-04 uCi/Sa					
3 KLXA2-1-AG-X	1000.03g,in	SRTB16153	04/22/08,pd		1.0	22.8	100	ZC	0600	6/3/08S	
J8D240157-2-DUP			05/22/07					ZC	0746	6/4/08RC	
-----65212008-15:15:st,06/02/2008-----											
04/23/2008 09:07	AmtRec: VIAL20,500MLP,6XLP		#Containers: 8	Alpha: -5.95E-04 uCi/Sa		Beta: 9.14E-04 uCi/Sa					
4 KLXA3-1-AD	1000.01g,in	SRTB16154	04/22/08,pd		1.0	22.5	100	2D	0600	6/3/08S	
J8D240157-3-SAMP			05/22/07					2D	0746	6/4/08RC	
-----65212008-15:15:st,06/02/2008-----											
04/23/2008 11:21	AmtRec: VIAL20,500MLP,6XLP		#Containers: 8	Alpha: 1.05E-03 uCi/Sa		Beta: -2.33E-04 uCi/Sa					

TAL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1
 Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktalled Added

WO Cnt: 4
 Prep_SamplePrep v4.8.32

6/2/2008 12:37:35 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

CL Sr-90 Prp/SeprCS5006(50771)
TL Sr-85 by Nal and Sr-90 by GPC 7 day ingrowth
5I CLIENT: HANFORD

Batch: 8127554 WATER pCi/L

SEQ Batch, Test: None

PM, Quote: SS, 57671

Balance Id:

Pipet #:

Sep1 DT/Tm Tech: 05/21/2008 15:15,ManisD

Sep2 DT/Tm Tech: 06/02/2008 08:51,ManisD

Prep Tech: Barcotl

Work Order, Lot, Sample Date/Time	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 KL6JP-1-AD J8D280196-1-SAMP	1000.00g,in	1000.00g,in	SRTB16191 05/14/08,pd		1.0	21.8	100	3A	0000	6/3/08	
-----05/21/2008-15:15:st;06/02/2008-----											
04/28/2008 13:51	AmtRec: VIAL20,500MLP,4XLP		#Containers: 6	Scr:	Alpha: 4.58E-04 uCi/Sa	Beta: -9.94E-05 uCi/Sa					
6 KL6KQ-1-AF J8D280197-1-SAMP	1000.02g,in	1000.02g,in	SRTB16192 05/14/08,pd		1.0	21.7	100	3B	0000	6/3/08	
-----05/21/2008-15:15:st;06/02/2008-----											
04/28/2008 11:50	AmtRec: VIAL20,5XLP,2X4LP		#Containers: 8	Scr:	Alpha: 6.67E-04 uCi/Sa	Beta: -6.60E-04 uCi/Sa					
7 KL6K8-1-AD J8D280199-1-SAMP	1000.04g,in	1000.04g,in	SRTB16193 05/14/08,pd		1.0	22	100	3C	0000	6/3/08	
-----05/21/2008-15:15:st;06/02/2008-----											
04/28/2008 09:44	AmtRec: VIAL20,6XLP		#Containers: 7	Scr:	Alpha: 2.03E-04 uCi/Sa	Beta: -2.38E-04 uCi/Sa					
8 KL6LA-1-AD J8D280199-2-SAMP	1000.03g,in	1000.03g,in	SRTB16194 05/14/08,pd		1.0	22.8	100	3D	0000	6/3/08	
-----05/21/2008-15:15:st;06/02/2008-----											
04/28/2008 09:14	AmtRec: VIAL20,6XLP		#Containers: 7	Scr:	Alpha: 2.73E-04 uCi/Sa	Beta: 4.24E-04 uCi/Sa					

6/2/2008 12:37:36 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

CL Sr-90 Prp/SepRCS006(5071)
TL Sr-85 by Nai and Sr-90 by GPC 7 day ingrowth
5I CLIENT: HANFORD

Balance Id:

Pipet #:

Batch: 8127554 WATER pCi/L

PM, Quote: SS, 57671

Sep1 DT/Tm Tech: 05/21/2008 15:15,ManisD

Sep2 DT/Tm Tech: 06/02/2008 08:51,ManisD

Work Order, Lot, Sample Date/Time

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:

Prep Tech: ,Barcoti

9 KLBMW-1-AC

260.01g,in

SRTB16197

1.0

21.3

100

4A

0640

6/3/08

J8D290324-1-SAMP

05/14/08,pd

05/22/07

4A

0740

6/3/08

6/4/08

05/21/2008-15:15,st;06/02/2008

04/29/2008 10:49

Amt/Rec: 20ML_3XLP_4LP

#Containers: 5

Scr: Alpha: 2.34E-03 uCi/Sa

Beta: 4.82E-03 uCi/Sa

1.3E-01L

10 KMMTF-1-AA-B

1000.02g,in

SRTB16196

1.0

20.4

100

4B

0740

6/3/08

6/4/08

J8E060000-554-BLK

05/14/08,pd

05/22/07

4C

0740

6/3/08

6/4/08

05/21/2008-15:15,st;06/02/2008

04/23/2008 09:07

Amt/Rec: SRS1478

#Containers: 1

Scr: Alpha: 0.640

Beta: 0.740

11 KMMTF-1-AC-C

1000.00g,in

SRS1478

1.0

21.7

100

4C

0740

6/3/08

6/4/08

J8E060000-554-LCS

04/11/08,pd

05/22/07

4C

0740

6/3/08

6/4/08

05/21/2008-15:15,st;06/02/2008

04/23/2008 09:07

Amt/Rec: #Containers: 1

Scr: Alpha: 0.640

Beta: 0.740

Comments:

All Clients for Batch:

384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SS, 57671

KLXAT1AD-SAMP Constituent List:

Sr-85 RDL: PC1/L LCL:20 UCL:105 RFD:20 Sr-90 RDL:2 PC1/L LCL:70 UCL:130 RFD:20

TAL Richland

Key: In - Initial Amt, fl - Final Amt, dl - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 3

Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ISV - Insufficient Volume for Analysis

WO Cnt: 11

Prep_SamplePrep v4.8.32

6/2/2008 12:37:36 PM

Sample Preparation/Analysis

CL Sr-90 Prp/SepRC5006(5071)

TL Sr-85 by NaI and Sr-90 by GPC 7 day ingrowth

Balance Id:

Pipet #:

Sep1 DT/Tm Tech: 05/21/2008 15:15, ManisD

Sep2 DT/Tm Tech: 06/02/2008 08:51, ManisD

Prep Tech: ,Barcotl

51 CLIENT: HANFORD

AnalyDueDate: 06/06/2008

Batch: 8127554

SEQ Batch, Test: None

pCi/L

Work Order, Lot, Sample Date Time

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:

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

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

KLXATIAD-SAMP Calc Info:

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

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

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

Approved By _____ Date: _____

6/5/2008 9:22:22 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/6/2007, 6/10/2008, Batch: '8127554', User: 'ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
8127554				
AC	Rev1C	Barcotl	5/16/2008 11:04:57	
SC		wagarr	IsBatched	5/6/2008 3:58:29 PM
SC		Barcotl	InPrep	5/16/2008 11:04:57 AM
SC		Barcotl	Prep1C	5/16/2008 11:05:13 AM
SC		ManisD	InSep1	5/19/2008 8:31:14 AM
SC		McDowellD	Sep1C	5/21/2008 4:16:10 PM
SC		DAWKINSO	InCnt1	5/21/2008 4:25:27 PM
SC		BlackCL	Cnt1C	5/22/2008 9:33:58 AM
SC		ManisD	Sep2C	6/2/2008 12:38:59 PM
SC		ClarkR	InCnt1	6/2/2008 12:41:03 PM
SC		ClarkR	CalcC	6/4/2008 10:11:14 AM
SC		nortonj	Rev1C	6/5/2008 9:22:10 AM
AC		Barcotl	5/16/2008 11:05:13	ICOC_RADCALC v4.8.32
AC		ManisD	5/19/2008 8:31:14	RICH-RC-5016 REVISION 7
AC		McDowellD	5/21/2008 4:16:10 PM	RICH-RC-5016 REVISION 7
AC		DAWKINSO	5/21/2008 4:25:27 PM	RICH-RC-5006 REV 7
AC		BlackCL	5/22/2008 9:33:58	RICH-RC-5006 REV 7
AC		ManisD	6/2/2008 12:38:59 PM	RICH-RD-0007 REVISION 6
AC		ClarkR	6/2/2008 12:41:03 PM	RICH-RD-0007 REVISION 6
AC		ClarkR	6/4/2008 10:11:14	RICH-RC-5071 REV 5
AC		nortonj	6/5/2008 9:22:10 AM	RICH-RD-0003 REVISION 5
				RICH-RD-0002 REV 8

AC: Accepting Entry; SC: Status Change

TAL Richland
Richland Wa.

6/2/2008 12:11:44 PM

Sample Preparation/Analysis

Balance Id: 1120482733

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab
AW Gamma PrpRC5017
TA Gamma by HPGE
51 CLIENT: HANFORD

Batch: 8127553 WATER
pCi/L

PM, Quote: SS, 57671

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: LucasD

Work Order, Lot, Sample Date/Time	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
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1 KL8MW-1-AA	2500.50g.in					100ms				
J8D290324-1-SAMP						200ms				
04/29/2008 10:49		AmtRec: 20ML,3XLP,4LP				300ms				
2 KL8MW-1-AD-X	2500.80g.in									
J8D290324-1-DUP										
04/29/2008 10:49		AmtRec: 20ML,3XLP,4LP								
3 KMMTD-1-AA-B	2501.40g.in									
J8E060000-553-BLK										
04/29/2008 10:49		AmtRec: 20ML,3XLP,4LP								
4 KMMTD-1-AC-C	2500.00g.in									
J8E060000-553-LCS										
04/29/2008 10:49		AmtRec: 20ML,3XLP,4LP								

Comments: Low level. Should have been poured up at 2,000 mls. DL by Tampa to continue procedure. 9/6/08

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

KL8MW1AA-SAMP Constituent List:	RDL:	DL:	PCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:	DL:	PCi/L	LCL:	UCL:	RPD:
Co-60	0.00E+00					20		0.00E+00					
Cs-137	6.00E+00				130		137DA	6.00E+00					
Eu-154	0.00E+00						Eu-155	0.00E+00					
K-40	0.00E+00						Sb-125	0.00E+00					

Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1
 TAL Richland Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktalled Added

WO Cnt: 4
Prep_SamplePrep v4.8.32

6/2/2008 12:11:44 PM

Sample Preparation/Analysis

Balance Id:1120482733

AW Gamma PrpRC5017
TA Gamma by HPGE
SI CLIENT: HANFORD

Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:

AnalyDueDate: 06/13/2008

PCi/L

Batch: 8127553
SEQ Batch, Test: None

Prep Tech: LucasD

Work Order, Lot, Sample Date Time	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:
CS-137	RDL:6.00E+00 PCI/L	LCL: LCL: LCL:	UCL: UCL: UCL:	RPD: RPD: RPD:	Cs-137DA Eu-155 Sb-125	RDL:6.00E+00 RDL:0.00E+00 RDL:0.00E+00	PCI/L PCI/L PCI/L	LCL: LCL: LCL:	UCL: UCL: UCL:	RPD: RPD: RPD:
KOMTDIAC-LCS:										
CS-137	RDL:15 PCI/L	LCL:70 LCL:70 LCL:70	UCL:130 UCL:130 UCL:130	RPD:20 RPD:20 RPD:20	Cs-137DA Ra-226 Ra-228DA	RDL:15 RDL:-- RDL:--	PCI/L PCI/L PCI/L	LCL:70 LCL:70 LCL:70	UCL:130 UCL:130 UCL:130	RPD:20 RPD:20 RPD:20
KL8MWIAA-SAMP Calc Info:										
Uncert Level (#):	2	Decay to SaDt: Y	Blk Subst.: N	Sci. Not.: Y	ODRs: B					
KOMTDIAA-BLK:										
Uncert Level (#):	2	Decay to SaDt: Y	Blk Subst.: N	Sci. Not.: Y	ODRs: B					
KOMTDIAC-LCS:										
Uncert Level (#):	2	Decay to SaDt: Y	Blk Subst.: N	Sci. Not.: Y	ODRs: B					

Approved By

Date:

6/5/2008 9:06:52 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/6/2007, 6/10/2008, Batch: '8127553', User: 'ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
8127553				
AC	Rev1C	LucasD	6/2/2008 11:42:27	
SC		wagarr	IsBatched	5/6/2008 3:58:29 PM
SC		LucasD	InPrep	6/2/2008 11:42:27 AM
SC		BockJ	InPrep2	6/2/2008 2:36:15 PM
SC		BockJ	Prep2C	6/4/2008 9:15:21 AM
SC		BlackCL	CalcC	6/4/2008 9:17:32 AM
SC		ClarkR	CalcC	6/4/2008 12:50:22 PM
SC		nortonj	Rev1C	6/5/2008 9:06:46 AM
AC		BockJ	6/2/2008 2:36:15 PM	ICOC_RADCALC v4.8.32
AC		BockJ	6/4/2008 8:59:20 AM	RICH-RC-5015 Revision 6
AC		BockJ	6/4/2008 9:15:21 AM	RICH-RC-5017 REVISION 6
AC		BlackCL	6/4/2008 9:17:32 AM	RICH-RC-5017 REVISION 6
AC		ClarkR	6/4/2008 12:50:22 PM	RICH-RD-0007 REVISION 6
AC		nortonj	6/5/2008 9:06:46 AM	RICH-RD-0007 REVISION 6
				RICH-RC-0002 REV 8

AC: Accepting Entry; SC: Status Change

TAL Richland
Richland Wa.

5/20/2008 11:34:23 AM

Sample Preparation/Analysis

Balance Id: 1120482733

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

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

PM, Quote: SS, 57671

Prep Tech: .HarrisD

Batch: 8127555 WATER pC/L
SEQ Batch, Test: None

Work Order, Lot, Sample Date/Time	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 KL6KQ-1-AE J8D280197-1-SAMP 04/28/2008 11:50		3892.50g,in	IT A7210 05/01/08			100	L5	1839		Beta: -6.60E-04 uCi/Sa 5/23/08 CW
2 KL6KQ-1-AG-X J8D280197-1-DUP 04/28/2008 11:50		3903.50g,in	IT A7209 05/01/08			41.3	L4	2023		Beta: -6.60E-04 uCi/Sa
3 KMMTM-1-AA-B J8E060000-555-BLK 04/28/2008 11:50		3845.90g,in	IT A7208 05/01/08			35.6	L5	2023		Beta: -6.60E-04 uCi/Sa
4 KMMTM-1-AC-C J8E060000-555-LCS 04/28/2008 11:50		3854.50g,in	ISD0846 04/22/08			34.6	L4	2207		Beta:

Comments: DHA 5/20/08

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

KL6KQIAE-SAMP Constituent List:

I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
KMTR1AA-BLK:					
I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
KMTR1AC-LCS:					
I-129	RDL:5	pCi/L	LCL:70	UCL:130	RPD:20

TAL Richland Key: In - Initial Amt, fi - Final Amt, dl - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1
 Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added
 ISV - Insufficient Volume for Analysis
 WO Cnt: 4
 Prep_SamplePrep v4.8.32

5/20/2008 11:34:24 AM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #:

AnalyDueDate: 06/12/2008

Sep1 DT/Tm Tech:

Batch: 8127555
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: HarrisD

Work Order, Lot, Sample Date/Time	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:
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Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
 COMMENT1AA-BLK:
 Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
 COMMENT1AC-ICS:
 Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

5/28/2008 10:37:14 AM

ICOC Fraction Transfer/Status Report

ByDate: 5/29/2007, 6/2/2008, Batch: '8127555', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
8127555				
AC	Rev1C	HarrisD	5/20/2008 11:28:44	
SC		wagarr	IsBatched	5/6/2008 3:58:29 PM
SC		HarrisD	InPrep	5/20/2008 11:28:44 AM
SC		HarrisD	Prep1C	5/20/2008 11:34:26 AM
SC		BostedD	Prep2C	5/22/2008 3:19:43 PM
SC		DAWKINSO	InCnt1	5/22/2008 3:30:58 PM
SC		BlackCL	CalcC	5/24/2008 6:15:51 AM
SC		nortonj	Rev1C	5/28/2008 10:37:10 AM
AC		HarrisD	5/20/2008 11:34:26	ICOC_RADCALC v4.8.32
AC		BostedD	5/22/2008 3:19:43 PM	RICH-RC-5017 Revision 6
AC		DAWKINSO	5/22/2008 3:30:58 PM	RICH-RC-5017 REVISION 6
AC		BlackCL	5/24/2008 6:15:51	RICH-RC-5017 REVISION 6
AC		nortonj	5/28/2008 10:37:10	RICH-RC-5017 REVISION 6
				RICH-RC-0002 REV 8

AC: Accepting Entry; SC: Status Change

TAL Richland
Richland Wa.

5/7/2008 7:57:57 AM **Sample Preparation/Analysis** Balance Id:1120373922
 384868, Pacific Northwest National Laboratory FP Tc-99 Prp/SepRC5065 Pipet #:
 Pacific Northwest National Lab S5 Technetium-99 by Liquid Scint
 AnalyzeDate: 06/06/2008 51 CLIENT: HANFORD

Batch: 8127549 WATER pCIVL PM, Quote: SS, 57671
 SEQ Batch, Test: None All Tests: 8127549 FPS5, 8127554 CLTL, 8127557 SSS3, 8127559 ARS6,
 Sep1 DT/Tm Tech: Sep2 DT/Tm Tech: Prep Tech: ,Barcofi

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	OC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KLXAT-1-AE			125.02g,in	125.02g						
J8D240157-1-SAMP										
04/23/2008 09:08			AmtRec: VIAL20,500MLP,6XLP	#Containers: 8				Alpha: -8.38E-04 uCi/Sa		Beta: 7.71E-04 uCi/Sa
2 KLXA2-1-AE			125.02g,in	125.02g						
J8D240157-2-SAMP										
04/23/2008 09:07			AmtRec: VIAL20,500MLP,6XLP	#Containers: 8				Alpha: -5.95E-04 uCi/Sa		Beta: 9.14E-04 uCi/Sa
3 KLXA2-1-AF-X			125.02g,in	125.02g						
J8D240157-2-DUP										
04/23/2008 09:07			AmtRec: VIAL20,500MLP,6XLP	#Containers: 8				Alpha: -5.95E-04 uCi/Sa		Beta: 9.14E-04 uCi/Sa
4 KLXA3-1-AE			125.02g,in	125.02g						
J8D240157-3-SAMP										
04/23/2008 11:21			AmtRec: VIAL20,500MLP,6XLP	#Containers: 8				Alpha: 1.05E-03 uCi/Sa		Beta: -2.33E-04 uCi/Sa
5 KLXA3-1-AF-S			125.00g,in	125.00g						
J8D240157-3-MS										
04/23/2008 11:21			AmtRec: VIAL20,500MLP,6XLP	#Containers: 8	TCSG2028			Alpha: 1.05E-03 uCi/Sa		Beta: -2.33E-04 uCi/Sa
6 KL062-1-AD			125.02g,in	125.02g						
J8D240362-3-SAMP										
04/24/2008 09:37			AmtRec: VIAL20,2X500MLP,4XLP	#Containers: 7	04/22/08,pd 01/10/06,r			Alpha: 1.05E-03 uCi/Sa		Beta: -2.33E-04 uCi/Sa
7 KIMIR4-1-AA-B			125.01g,in	125.01g						
J8E060000-549-BLK										
04/23/2008 09:07			AmtRec: VIAL20,500MLP,6XLP	#Containers: 1				Alpha: 2.25E-07 uCi/Sa		Beta: 8.14E-07 uCi/Sa

TAL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1
 Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added
 WO Cnt: 7
 Prep_SamplePrep v4.8.32

5/7/2008 7:57:58 AM

Sample Preparation/Analysis

Balance Id:1120373922

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

Pipet #:

AnalysDueDate: 06/06/2008

Sep1 DT/Tm Tech:

Batch: 8127549

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 KMMR4-1-AC-C			125.01g,in	125.01g	TCSE2232	60				
J8E060000-549-LCS					04/11/08,pd					
04/23/2008 09:07					01/10/06,r					
9 KMMR4-1-AD-8N										
J8E060000-549-IBLK										
04/23/2008 09:07										

Amt/Rec	#Containers	Alpha	Beta
	1		
	1		

Comments:

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

KLXAT1AE-SAMP Constituent List:	PCI/L	LCL	UCL	RPD
TC-99	RDL:15	LCL:70	UCL:130	RPD:20
KLX311AF-MS:				
KMMR41AA-BLK:				
TC-99	RDL:15	LCL:	UCL:	RPD:
KMMR41AC-LCS:				
TC-99	RDL:15	LCL:70	UCL:130	RPD:20
KMMR41AD-IBLK:				
TC-99	RDL:15	LCL:	UCL:	RPD:
KLXAT1AE-SAMP Calc Info:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KLX311AF-MS:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KMMR41AA-BLK:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KMMR41AC-LCS:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KMMR41AD-IBLK:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

5/7/2008 7:57:58 AM

Sample Preparation/Analysis

Balance Id:

FP Tc-99 Prp/SepRC5065

Pipet #:

S5 Technetium-99 by Liquid Scint

AnalyDueDate: 06/06/2008

Sep1 DT/Tm Tech:

51 CLIENT: HANFORD

Batch: 8127549

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

pCi/L

Prep Tech:



Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Int/Date	Comments:

Approved By _____

Date: _____

5/20/2008 9:41:13 AM

ICOC Fraction Transfer/Status Report

ByDate: 5/21/2007, 5/25/2008, Batch: '8127549', User: 'ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments	
8127549					
AC		Rev1C	Barcotl	5/7/2008 8:02:30 AM	
SC		wagarr	IsBatched	5/6/2008 3:58:28 PM	ICOC_RADCALC v4.8.32
SC		Barcotl	InPrep	5/7/2008 8:02:30 AM	RICH-RC-5016 REVISION 7
SC		Barcotl	Prep1C	5/7/2008 8:02:43 AM	RICH-RC-5016 REVISION 7
SC		AshworthA	Sep2C	5/14/2008 6:18:00 PM	RICH-RC-5065 REV 6
SC		DAWKINSO	InCnt1	5/14/2008 6:55:04 PM	RICH-RD-0001 REVISION 4
SC		BlackCL	CalcC	5/15/2008 11:23:58 AM	RICH-RD-0001 REVISION 4
SC		nortonj	Rev1C	5/20/2008 9:41:04 AM	RICH-RC-0002 REV 8
AC		Barcotl		5/7/2008 8:02:43 AM	
AC		AshworthA		5/14/2008 6:18:00 PM	
AC		DAWKINSO		5/14/2008 6:55:04 PM	
AC		BlackCL		5/15/2008 11:23:58	
AC		nortonj		5/20/2008 9:41:04	

AC: Accepting Entry, SC: Status Change

TAL Richland
Richland Wa.

5/28/2008 11:30:02 AM

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: 06/13/2008
Batch: 8127550
SEQ Batch, Test: None

pCi/L

Work Order, Lot, Sample Date/Time	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, SS, 57671

KMCD31AD-SAMP Constituent List:

Tc-99 RDL:1.50E+01 pCi/L LCL:70 UCL:130 RPD:20

KMCD31AF-MS Constituent List:

KMCR61AA-BLK: Tc-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:

KMCR61AC-LCS:

Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20

KMCR61AD-IBLK:

Tc-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:

KMCD31AD-SAMP Calc Info:

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

KMCD31AF-MS Calc Info:

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

KMCR61AA-BLK:

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

KMCR61AC-LCS:

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

KMCR61AD-IBLK:

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

Approved By _____ Date: _____

6/9/2008 7:25:48 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/10/2007, 6/14/2008, Batch: '8127550', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
8127550				
AC	Rev1C	LucasD	5/28/2008 11:23:07	
SC		wagarr	IsBatched	5/6/2008 3:58:28 PM
SC		LucasD	InPrep	5/28/2008 11:23:07 AM
SC		Barcotl	InPrep	6/4/2008 2:56:03 PM
SC		Barcotl	Prep1C	6/4/2008 2:56:18 PM
SC		DAWKINSO	InCnt1	6/4/2008 3:20:36 PM
SC		BlackCL	CalcC	6/6/2008 7:22:44 AM
SC		nortonj	Rev1C	6/9/2008 7:25:39 AM
AC		Barcotl		6/4/2008 2:56:03 PM
AC		Barcotl		6/4/2008 2:56:18 PM
AC		DAWKINSO		6/4/2008 3:20:36 PM
AC		BlackCL		6/6/2008 7:22:44 AM
AC		nortonj		6/9/2008 7:25:39 AM

AC: Accepting Entry; SC: Status Change

TAL Richland
Richland Wa.

5/6/2008 3:51:23 PM

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

Analyte: WATER

Batch: 8127559

PM, Quote: SS, 57671

Sample Preparation/Analysis

AR H-3 Pp/SeptRC5007
S6 Tritium by Liquid Scint
SI CLIENT: HANFORD

Balance Id: 122445

Pipet #:

Sep1 DT/Tm Tech: 5-15-08

Sep2 DT/Tm Tech:

Work Order, Lot, Sample Date Time

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 KLXAT-1-AA

J8D240157-1-SAMP



AmiRec: VIAL20,500MLP,6XLP #Containers: 8

Beta: 7.71E-04 uCi/Sa

2 KLXA2-1-AA

J8D240157-2-SAMP



AmiRec: VIAL20,500MLP,6XLP #Containers: 8

Beta: 9.14E-04 uCi/Sa

3 KLXA3-1-AA

J8D240157-3-SAMP



AmiRec: VIAL20,500MLP,6XLP #Containers: 8

Beta: 2.33E-04 uCi/Sa

4 KL07D-1-AA

J8D240367-1-SAMP



AmiRec: VIAL20,2XLP #Containers: 3

Beta: 1.49E-04 uCi/Sa

5 KL07D-1-AE-X

J8D240367-1-DUP



AmiRec: VIAL20,2XLP #Containers: 3

Beta: 1.49E-04 uCi/Sa

6 KL07G-1-AA

J8D240367-2-SAMP



AmiRec: VIAL20,2XLP #Containers: 3

Beta: 1.27E-04 uCi/Sa

7 KL07K-1-AA

J8D240367-3-SAMP



AmiRec: VIAL20,2XLP #Containers: 3

Beta: 7.17E-05 uCi/Sa

TAL Richland
Richland Wa.

Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2

Page 1

WO Cnt: 7

pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ICOC v4.8.32

5/6/2008 3:51:24 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

AnalyDueDate: 06/06/2008

Batch: 8127559 WATER pCi/L

PM, Quote: SS, 57671

Balance Id:

Pipet #:

Sep1 DT/Tm Tech: 5-15-08 em

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, In/Date	Comments:
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8 KL07N-1-AA

J8D240367-4-SAMP

04/24/2008 12:05

Amt/Rec: VIAL20,2XLP #Containers: 3

Scr: Alpha: 1.79E-04 uCi/Sa Beta: 2.15E-04 uCi/Sa

9 KL6KQ-1-AA

J8D280197-1-SAMP

04/28/2008 11:50

Amt/Rec: VIAL20,5XLP,2X4LP #Containers: 8

Scr: Alpha: Beta:

10 KL6K8-1-AA

J8D280199-1-SAMP

04/28/2008 09:44

Amt/Rec: VIAL20,6XLP #Containers: 7

Scr: Alpha: Beta:

11 KL6LA-1-AA

J8D280199-2-SAMP

04/28/2008 09:14

Amt/Rec: VIAL20,6XLP #Containers: 7

Scr: Alpha: Beta:

12 KMMT3-1-AA-B

J8E060000-559-BLK

04/24/2008 10:34

Amt/Rec: #Containers: 1

Scr: Alpha: Beta:

13 KMMT3-1-AC-C

J8E060000-559-LCS

04/24/2008 10:34

Amt/Rec: #Containers: 1

Scr: Alpha: Beta:

14 KMMT3-1-AD-B

J8E060000-559-BLK

04/24/2008 10:34

Amt/Rec: #Containers: 1

Scr: Alpha: Beta:

TAL Richland
Richland Wa.

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

ISV - Insufficient Volume for Analysis

WO Cnt: 14

ICOC v4.8.32

5/6/2008 3:51:24 PM

Sample Preparation/Analysis

Balance Id: 12445

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

Pipet #: _____

AnalyteDate: 06/06/2008

Sep1 DT/Tm Tech: 5-15-08

Batch: 8127559
SEQ Batch, Test: None

Sep2 DT/Tm Tech: _____

pCi/L

Prep Tech: _____

CR Analyst, Init/Date

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	Comments:
15 KMMT3-1-AE-C J8E060000-559-LCS 04/24/2008 10:34							
16 KMMT3-1-AF-B J8E060000-559-BLK 04/24/2008 10:34							
17 KMMT3-1-AG-B J8E060000-559-BLK 04/24/2008 10:34							
18 KMMT3-1-AH-B J8E060000-559-BLK 04/24/2008 10:34							

Scr: Alpha: Beta:

#Containers: 1

AmiRec:

Alpha: Beta:

Scr: Alpha: Beta:

All Clients for Batch:

384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SS , 57671

CLIENTS - SAMP Constituent List:

H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
 KMMT31AA-BLK:
 KMMT31AC-LCS:
 KMMT31AD-BLK:

WO Cnt: 18

ISV - Insufficient Volume for Analysis

Page 3

ICOC v4.8.32

5/6/2008 3:51:24 PM

Sample Preparation/Analysis

AR H-3 Pp/SepRCS007
S6 Tritium by Liquid Scint
51 CLIENT: HANFORD

Balance Id: *B2445*

Pipet #:

AnalyteDueDate: 06/06/2008

Sep1 DT/Tm Tech: *5-15-08*

pCi/L

Sep2 DT/Tm Tech:

Batch: 8127559
SEQ Batch, Test: None

Prep Tech:

Work Order, Lot, Sample Date/Time	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:
-----------------------------------	----------------	--------------------------	---------------------	----------------	-------------	------------------------------	-----------------------	-----------

QMNT31AE-LCS:

QMNT31AF-BLK:

QMNT31AG-BLK:

QMNT31AH-BLK:

KLAF11AA-SAMP Calc Info:

Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci. Not.: Y	ODRs: B
QMNT31AA-BLK:	Decay to SaDt: Y	Blk Subt.: N	Sci. Not.: Y	ODRs: B
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci. Not.: Y	ODRs: B
QMNT31AC-LCS:	Decay to SaDt: Y	Blk Subt.: N	Sci. Not.: Y	ODRs: B
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci. Not.: Y	ODRs: B
QMNT31AD-BLK:	Decay to SaDt: Y	Blk Subt.: N	Sci. Not.: Y	ODRs: B
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci. Not.: Y	ODRs: B
QMNT31AE-LCS:	Decay to SaDt: Y	Blk Subt.: N	Sci. Not.: Y	ODRs: B
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci. Not.: Y	ODRs: B
QMNT31AF-BLK:	Decay to SaDt: Y	Blk Subt.: N	Sci. Not.: Y	ODRs: B
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci. Not.: Y	ODRs: B
QMNT31AG-BLK:	Decay to SaDt: Y	Blk Subt.: N	Sci. Not.: Y	ODRs: B
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci. Not.: Y	ODRs: B
QMNT31AH-BLK:	Decay to SaDt: Y	Blk Subt.: N	Sci. Not.: Y	ODRs: B

Approved By

Date:

5/20/2008 9:35:38 AM

ICOC Fraction Transfer/Status Report

ByDate: 5/21/2007, 5/25/2008, Batch: '8127559', User: 'ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
8127559				
AC	Rev1C	McDowellID	5/15/2008 3:10:38 PM	
SC		wagarr	IsBatched 5/6/2008 3:58:29 PM	ICOC_RADCALC v4.8.32
SC		McDowellID	InSep1 5/15/2008 3:10:38 PM	RICH-RC-5007 REVISION 6
SC		McDowellID	Sep1C 5/16/2008 3:40:58 PM	RICH-RC-5007 REVISION 6
SC		DAWKINSO	InCnt1 5/16/2008 4:10:18 PM	RICH-RD-0001 REVISION 4
SC		ClarkR	CalcC 5/19/2008 10:52:37 AM	RICH-RD-0001 REVISION 4
SC		nortonj	Rev1C 5/20/2008 9:35:26 AM	RICH-RC-0002 REV 8
AC		McDowellID	5/16/2008 3:40:58 PM	
AC		DAWKINSO	5/16/2008 4:10:18 PM	
AC		ClarkR	5/19/2008 10:52:37	
AC		nortonj	5/20/2008 9:35:26	

AC: Accepting Entry; SC: Status Change

TAL Richland
Richland Wa.

5/6/2008 3:51:22 PM

394868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

Sample Preparation/Analysis

5S C-14 Ppp/SepRCS022
S3 Carbon-14 by Liquid Scint

Balance Id: *U/A*

Pipet #:

AnalysDueDate: 06/06/2008

W05383

5I CLIENT: HANFORD

Sep1 DT/Tm Tech: *5-30 08 PM*

Batch: 8127557

WATER

PM, Quote: SS, 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

pCi/L

Prep Tech:

Work Order, Lot, Sample Date/Time	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 KLXAT-1-AC								
J8D240157-1-SAMP								
04/23/2008 09:08								
AmfRec: VIAL20,500MLP,6XLP #Containers: 8								
Scr: Alpha: -8.38E-04 uCi/Sa Beta: 7.71E-04 uCi/Sa								
2 KLXA2-1-AC								
J8D240157-2-SAMP								
04/23/2008 09:07								
AmfRec: VIAL20,500MLP,6XLP #Containers: 8								
Scr: Alpha: -5.95E-04 uCi/Sa Beta: 9.14E-04 uCi/Sa								
3 KLXA3-1-AC								
J8D240157-3-SAMP								
04/23/2008 11:21								
AmfRec: VIAL20,500MLP,6XLP #Containers: 8								
Scr: Alpha: 1.05E-03 uCi/Sa Beta: -2.33E-04 uCi/Sa								
4 KL6K8-1-AC								
J8D280199-1-SAMP								
04/28/2008 09:44								
AmfRec: VIAL20,6XLP #Containers: 7								
Scr: Alpha: Beta:								
5 KL6K9-1-AE-X								
J8D280199-1-DUP								
04/28/2008 09:44								
AmfRec: VIAL20,6XLP #Containers: 7								
Scr: Alpha: Beta:								
6 KL6LA-1-AC								
J8D280199-2-SAMP								
04/28/2008 09:14								
AmfRec: VIAL20,6XLP #Containers: 7								
Scr: Alpha: Beta:								
7 KMMTP-1-AA-B								
J8E060000-557-BLK								
04/28/2008 09:44								
AmfRec: #Containers: 1								
Scr: Alpha: Beta:								

TESTAMERICA

141

5/6/2008 3:51:22 PM

Sample Preparation/Analysis

Balance Id: *N/A*

Pipet #:

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

AnalyDueDate: 06/06/2008

Sep1 DT/Tm Tech: *5-30 EB Au*

Batch: 8127557
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

pCi/L

Work Order, Lot, Sample Date Time

Total Amt/Unit

Initial Aliquot Amt/Unit

QC Tracer Prep Date

Count Time Min

Detector Id

Count On | Off (24hr) Circle

Prep Tech:

CR Analyst, Init/Date

Comments:

8 KMMTP-1-AC-C

J8E060000-557-LCS

04/28/2008 09:44

Amt/Rec

#Containers: 1

Scr:

Alpha:

Beta:

9 KMMTP-1-AD-B

J8E060000-557-BLK

04/28/2008 09:44

Amt/Rec

#Containers: 1

Scr:

Alpha:

Beta:

Comments:

All Clients for Batch:

384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SS , 57671

KLARFIAC-SAMP Constituent List:

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

KMMTP1AA-BLK:

KMMTP1AC-LCS:

KMMTP1AD-BLK:

KLARFIAC-SAMP Calc Info:

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

Approved By

Date:

TAL Richland Richland Wa.

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

WO Cnt: 9

ICOC v4.8.32

6/5/2008 12:54:29 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/6/2007, 6/10/2008, Batch: '8127557', User: 'ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
8127557				
AC	Rev1C	McDowellID	5/30/2008 8:39:56	
SC		wagarr	IsBatched	5/6/2008 3:58:29 PM
SC		McDowellID	InSep1	5/30/2008 8:39:56 AM
SC		McDowellID	Sep1C	6/3/2008 8:35:45 AM
SC		ClarkR	CalcC	6/4/2008 10:50:23 AM
SC		nortonj	Rev1C	6/5/2008 12:54:21 PM
AC		McDowellID	6/3/2008 8:35:45 AM	
AC		ClarkR	6/4/2008 10:50:23	
AC		nortonj	6/5/2008 12:54:21 PM	

AC: Accepting Entry; SC: Status Change

TAL Richland
Richland Wa.

5/23/2008 3:12:25 PM **Sample Preparation/Analysis** Balance Id: 1120482733
 384868, Pacific Northwest National Laboratory DH UNat_Laser PpRC5015 Pipet #:
 Pacific Northwest National Lab SS Total Uranium by KPA
 AnalytDueDate: 06/09/2008 **WATER** **PM, Quote: SS, 57671** Prep Tech: HarrisD (Box)
 SEQ Batch, Test: None 51 CLIENT: HANFORD

Work Order, Lot, Sample Date/Time	Total Amv/Unit	Initial Aliquot Amv/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KL06A-1-AE	25.20g,in							
J8D240362-2-SAMP								
04/24/2008 10:30		AmtRec: VIAL20,500MLP,4XLP	#Containers: 6			Scr: Alpha: 6.51E-04 uCi/Sa	Beta: 1.77E-03 uCi/Sa	
2 KL062-1-AF	24.90g,in							
J8D240362-3-SAMP								
04/24/2008 09:37		AmtRec: VIAL20,2X500MLP,4XLP	#Containers: 7			Scr: Alpha: 2.25E-07 uCi/Sa	Beta: 8.14E-07 uCi/Sa	
3 KL6JP-1-AE	25.10g,in							
J8D280196-1-SAMP								
04/28/2008 13:51		AmtRec: VIAL20,500MLP,4XLP	#Containers: 6			Scr: Alpha: 4.58E-04 uCi/Sa	Beta: -9.94E-05 uCi/Sa	
4 KL6JP-1-AF-S	25.20g,in							
J8D280196-1-MS								
04/28/2008 13:51		AmtRec: VIAL20,500MLP,4XLP	#Containers: 6			Scr: Alpha: 4.58E-04 uCi/Sa	Beta: -9.94E-05 uCi/Sa	
5 KMCD3-1-AE	25.10g,in							
J8D300360-1-SAMP								
04/30/2008 13:21		AmtRec: VIAL20,500MLP,4XLP	#Containers: 6			Scr: Alpha: 8.78E-05 uCi/Sa	Beta: -3.78E-04 uCi/Sa	
6 KMCD3-1-AH-X	25.10g,in							
J8D300360-1-DUP								
04/30/2008 13:21		AmtRec: VIAL20,500MLP,4XLP	#Containers: 6			Scr: Alpha: 8.78E-05 uCi/Sa	Beta: -3.78E-04 uCi/Sa	
7 KMMR9-1-AA-B	25.00g,in							
J8E060000-552-BLK								
04/30/2008 13:21		AmtRec: #Containers: 1				Scr: Alpha: Beta:	Beta:	

5/23/2008 3:12:27 PM

Sample Preparation/Analysis

Balance Id:1120482733

DH UNat_Laser PprRC5015
SS Total Uranium by KPA
51 CLIENT: HANFORD

Pipet #:

AnalyteDueDate: 06/09/2008

Sep1 DT/Tm Tech:

Batch: 8127552
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD

Work Order, Lot, Sample Date/Time	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 KMMR9-1-AC-C	24.90g,in		UNSF4212					
J8E060000-552-LCS			05/22/08,pd					
04/30/2008 13:21			#Containers: 1					
9 KMMR9-1-AD-C	25.30g,in		UNSC2279					
J8E060000-552-LCS			03/26/08,pd					
04/30/2008 13:21			#Containers: 1					

Alpha: _____ Beta: _____

Scr: _____ Alpha: _____ Beta: _____

Comments:

PT22.0 OUTS/23/08

All Clients for Batch:

394869, Pacific Northwest National Laboratory Pacific Northwest National Lab, SS , 57671

KL06A1AE-SAMP Constituent List:

Uranium	RDL:1.44E-01	ug/L	LCL:	UCL:	RPD:
KL6JPIAF-MS:					
KMMR91AA-BLK:					
Uranium	RDL:1.44E-01	ug/L	LCL:	UCL:	RPD:
KMMR91AC-LCS:					
Uranium	RDL:0.144343	ug/L	LCL:70	UCL:130	RPD:20
KMMR91AD-LCS:					
Uranium	RDL:0.144343	ug/L	LCL:70	UCL:130	RPD:20
KL06A1AE-SAMP Calc Info:					
Uncert Level (#s):	2	Decay to Sadt: Y	Blk Subt.: N	Sci. Not.: Y	ODRs: B
KL6JPIAF-MS:					
Uranium	RDL:1.44E-01	ug/L	LCL:	UCL:	RPD:
KMMR91AA-BLK:					
Uranium	RDL:0.144343	ug/L	LCL:70	UCL:130	RPD:20
KMMR91AC-LCS:					
Uranium	RDL:0.144343	ug/L	LCL:70	UCL:130	RPD:20
KMMR91AD-LCS:					
Uranium	RDL:0.144343	ug/L	LCL:70	UCL:130	RPD:20

TAL Richland

Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2

Richland Wa.

pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ISV - Insufficient Volume for Analysis

WO Cnt: 9

Prep_SamplePrep v4.8.32

5/23/2008 3:12:27 PM

Sample Preparation/Analysis

Balance Id: 120482733

DH UNat_Laser PprRC5015
SS Total Uranium by KPA
5I CLIENT: HANFORD

Pipet #:

AnalyseDate: 06/09/2008

Sep1 DT/Tm Tech:

Batch: 8127552
SEO Batch, Test: None

Sep2 DT/Tm Tech:

ug/L

Prep Tech: ,HarrisD

Work Order, Lot, Sample Date/Time	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:
								

Approved By _____

Date: _____

6/4/2008 10:15:54 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/5/2007, 6/9/2008, Batch: '8127552', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
8127552				
AC	Rev1C	HarrisD	5/23/2008 3:04:36 PM	
SC		wagarr	IsBatched	5/6/2008 3:58:29 PM
SC		HarrisD	InPrep	5/23/2008 3:04:36 PM
SC		HarrisD	Prep1C	5/23/2008 3:12:27 PM
SC		BockJ	InPrep2	5/29/2008 8:25:30 AM
SC		BockJ	Prep2C	6/2/2008 12:46:15 PM
SC		NelsonT	Cnt1C	6/3/2008 10:57:11 AM
SC		nortonj	Rev1C	6/4/2008 10:15:46 AM
AC		HarrisD	5/23/2008 3:12:27 PM	
AC		BockJ	5/29/2008 8:25:30	
AC		BockJ	6/2/2008 12:46:15 PM	
AC		NelsonT	6/3/2008 10:57:11	
AC		nortonj	6/4/2008 10:15:46	

AC: Accepting Entry; SC: Status Change

TAL Richland
Richland Wa.

4/30/2008 8:22:08 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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:

AnalyteDueDate: 06/13/2008

Batch: 8120534 WATER mg/L
SEO Batch, Test: None All Tests: 8120534 88EA.

PM, Quote: SS, 57671

Work Order, Sample Date	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KL8MA-1-AA							
J8D290320-1-SAMP 04/29/2008 13:26	AmiRec: 20ML,500G	#Containers: 2					Beta:
2 KL8MA-1-AC-S							
J8D290320-1-MS 04/29/2008 13:26	AmiRec: 20ML,500G	#Containers: 2					Beta:
3 KL8MA-1-AD-D							
J8D290320-1-MSD 04/29/2008 13:26	AmiRec: 20ML,500G	#Containers: 2					Beta:
4 KL8MA-1-AE-X							
J8D290320-1-DUP 04/29/2008 13:26	AmiRec: 20ML,500G	#Containers: 2					Beta:
5 KL8QH-1-AA-B							
J8D290000-534-BLK 04/29/2008 13:26	AmiRec:	#Containers: 1					Beta:
6 KL8QH-1-AC-C							
J8D290000-534-LCS 04/29/2008 13:26	AmiRec:	#Containers: 1					Beta:

4/30/2008 8:22:10 AM

Sample Preparation/Analysis

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

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

AnalyteDueDate: 06/13/2008
Batch: 8120534
SEO Batch, Test: None

mg/L

Work Order, Lot, Sample Date/Time	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, SS, 57671

KL8WAL1AA-SAMP Constituent List:	RDL:0.002	mg/L	LCL:85	UCL:115	RPD:20	Blk Subt.: N	Sci.Not.: Y	ODRs: B
HEXCHROME								
KL8MAL1AC-MS Constituent List:								
HEXCHROME								
KL8MAL1AD-MSD:								
HEXCHROME								
KL8QH1AA-BLK:								
HEXCHROME								
KL8QH1AC-LCS:								
HEXCHROME								
KL8WAL1AA-SAMP Calc Info:								
Uncert Level (#s): 2								
KL8MAL1AC-MS Calc Info:								
Uncert Level (#s): 2								
KL8MAL1AD-MSD:								
Uncert Level (#s): 2								
KL8QH1AA-BLK:								
Uncert Level (#s): 2								
KL8QH1AC-LCS:								
Uncert Level (#s): 2								

Approved By

Date: