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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: 39077

RECEIVED MAY 22, 2008

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05366	S08-003	B1TKJ6	J8D010209-1	KKH551AA	9KKH5510	8099414
		B1TKJ6	J8D010209-1	KKH551AC	9KKH5510	8099415
		B1TKJ6	J8D010209-1	KKH551AD	9KKH5510	8099412
		B1TKJ6	J8D010209-1	KKH551AE	9KKH5510	8099403
		B1TKJ7	J8D010209-2	KKJCH1AA	9KKJCH10	8099414
		B1TKJ7	J8D010209-2	KKJCH1AC	9KKJCH10	8099415
		B1TKJ7	J8D010209-2	KKJCH1AD	9KKJCH10	8099412
		B1TKJ7	J8D010209-2	KKJCH1AE	9KKJCH10	8099403
		B1TKL5	J8D010209-3	KKJC71AA	9KKJC710	8099403
		B1TKL5	J8D010209-3	KKJC71AC	9KKJC710	8099411
		B1TKM3	J8D010209-4	KKJD91AA	9KKJD910	8099412
		B1TKM3	J8D010209-4	KKJD91AC	9KKJD910	8099403
		B1TKM3	J8D010209-4	KKJD91AD	9KKJD910	8099411
		B1TKH9	J8D010209-5	KKJEV1AA	9KKJEV10	8099410
		B1TKH9	J8D010209-5	KKJEV1AC	9KKJEV10	8099417

Comments:

0079174

Report Nbr: 39077

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05366	S08-003	B1TKL9	J8D010209-6	KKJE31AA	9KKJE310	8099403
		B1TKL9	J8D010209-6	KKJE31AC	9KKJE310	8099411
	I08-027	B1TJN7	J8D010244-1	KKJJC1AA	9KKJJC10	8099415
		B1TJF0	J8D010244-2	KKJJF1AA	9KKJJF10	8099415
		B1TJF1	J8D010244-3	KKJJJ1AA	9KKJJJ10	8099415
	G08-003	B1THF2	J8D010253-1	KKJJ11AA	9KKJJ110	8099412
		B1THF2	J8D010253-1	KKJJ11AC	9KKJJ110	8099411
		B1TH91	J8D010253-2	KKJKA1AA	9KKJKA10	8099411
		B1TH92	J8D010253-3	KKJKL1AA	9KKJKL10	8099411
		B1THD3	J8D010253-4	KKJK61AA	9KKJK610	8099411
		B1THD8	J8D010253-5	KKJLD1AA	9KKJLD10	8099412
		B1THD8	J8D010253-5	KKJLD1AC	9KKJLD10	8099411
	A08-004	B1TVL3	J8D020359-1	KKL0E1AA	9KKL0E10	8099403
	S08-004	B1TWT6	J8D020362-1	KKL1W1AA	9KKL1W10	8099403
		B1TWT6	J8D020362-1	KKL1W1AC	9KKL1W10	8099411
		B1TWT7	J8D020362-2	KKL191AA	9KKL1910	8099403
		B1TWT7	J8D020362-2	KKL191AC	9KKL1910	8099411
	A08-004	B1TVM3	J8D040135-1	KKPRQ1AA	9KKPRQ10	8099403
		B1TVM5	J8D040135-2	KKPTJ1AA	9KKPTJ10	8099403
		B1TVM8	J8D040135-3	KKPTR1AA	9KKPTR10	8099403

Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

May 22, 2008

Attention: Steve Trent

SAF Number	:	S08-003, I08-027, G08-003, A08-004, S08-004
Date SDG Closed	:	April 3, 2008
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05366
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between April 1, 2008 and April 3, 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:

PGW ID#	STLR ID#	DATE OF RECEIPT	MATRIX
B1TKJ6	KKH55	4/01/08	WATER
B1TKJ7	KKJCH	4/01/08	WATER
B1TKL5	KKJC7	4/01/08	WATER
B1TKM3	KKJD9	4/01/08	WATER
B1TKH9	KKJEV	4/01/08	WATER
B1TKL9	KKJE3	4/01/08	WATER
B1TJN7	KKJJC	4/01/08	WATER
B1TJF0	KKJJ7	4/01/08	WATER
B1TJF1	KKJJJ	4/01/08	WATER
B1THF2	KKJJ1	4/01/08	WATER
B1TH91	KKJKA	4/01/08	WATER
B1TH92	KKJKL	4/01/08	WATER
B1THD3	KKJK6	4/01/08	WATER

B1THD8	KKJLD	4/01/08	WATER
B1TVL3	KKL0E	4/02/08	WATER
B1TWT6	KKL1W	4/02/08	WATER
B1TWT7	KKL19	4/02/08	WATER
B1TVM3	KKPRQ	4/03/08	WATER
B1TVM5	KKPTJ	4/03/08	WATER
B1TVM8	KKPTR	4/03/08	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
Technetium-99 by method RICH-RC-5078

IV. Quality Control

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

QC and sample results are reported in the same units.

V. Comments

Gas Proportional Counting
Gross Alpha by method RICH-RC-5014:
The LCS, batch blank, samples and sample duplicate (B1TKJ6) results are within contractual requirements.

Fluor Hanford
May 22, 2008

Gross Beta by method RICH-RC-5014:
Samples B1TJF0 and B1TJK1 were analyzed with reduced aliquots based on activity screening. The samples due not meet the CRDL due to the reduced aliquots. The sample results exceed the achieved MDAs. Except as noted, the LCS, batch blank, samples and sample duplicate (B1TJN7) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006
The LCS was lost in processing. On May 16, 2008 TestAmerica sent a Issue Resolution Form (Tracking Number: 08-064). On May 20, 2008 it proposal was accepted. Except as noted, the batch blank, samples and sample duplicate (B1TWT6) results are within contractual requirements.

Gamma Spectroscopy
Gamma Spec (LL) by method RICH-RC-5017:
There was insufficient volume for a duplicate. Sample B1THF2 was recounted on a different detector for the duplicate (B1THF2 DUP). Except as noted, the LCS, batch blank, samples and sample duplicate (B1THF2) results are within contractual requirements.

Iodine-129 by method RICH-RC-5025:
The LCS, batch blank, samples and sample duplicate (B1TKH9) results are within contractual requirements.

Iodine-129 (LL) by method RICH-RC-5025:
The LCS, batch blank, samples and sample duplicate (B1TVM3) results are within contractual requirements.

Liquid Scintillation Counting
Technetium-99 by method RICH-RC-5078:
The LCS, batch blank, samples, sample duplicate (B1TKH9), and sample matrix spike (B1TKH9) 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

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

Tracking Number: 08-064
SAF No.: S08-003, G08-003, S08-004
Date: May 16, 2008
SDG: W05366
Sample No.(s) B1TKL5, B1TKM3, B1TKL9, B1THF2, B1TH91, B1TH92, B1THD3, B1THD8, B1TWT6, B1TWT7

Submitted By: Sandra Seger
Phone No. 509-375-3131 x158
Fax No. 509-375-5590

Submitted To: **Steve Trent (FH)**
Phone No. **509-373-5869**
Fax No. 866-252-5816

ISSUE	PROPOSED RESOLUTION
The Sr90 LCS was lost in processing. The tracer recoveries are accepatble. There was another Sr90 batch processed at the same time. That LCS was acceptable. Reanalyzing the Sr90 batch for W05366 will take an additional 2 – 3 weeks.	Report the Sr90 without the LCS.

BHI/FH COMMENTS -
Accept the data without the LCS. Include an explanation in the narrative and the batch number and result of other Sr90 batch that was processed at the same time.

Heidi Hampt 5/20/08
Signature and date

Seger, Sandra

From: Hampt, Heidi [Heidi_Hampt@RL.gov]
Sent: Tuesday, May 20, 2008 10:36 AM
To: Seger, Sandra
Cc: ^CPP Sample Management; Trent, Stephen J
Subject: RE: W05366 IRF (Due 5/19/06)
Attachments: 08-064.DOC

Sandra,

The response is attached.

Thanks,
Heidi

From: Seger, Sandra [mailto:Sandra.Seger@testamericainc.com]
Sent: Friday, May 16, 2008 1:50 PM
To: Hampt, Heidi
Cc: Widrig, Dana L; Felmy, Diana; ^CPP Sample Management; Trent, Stephen J; Thompson, Christopher J
Subject: W05366 IRF (Due 5/19/06)

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 = constants * f(x,y,z,...). The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/?n), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

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

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or 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) ***u_c - Combined Uncertainty.***	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, ***u_c the combined uncertainty.*** The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or 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*(BkgrndCnt/BkgrndCntMin)/SCntMin)) * (ConvFct/(Eff*Yld*Abn*Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC|MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. MDC = (4.65 * Sqrt((BkgrndCnt/BkgrndCntMin)/SCntMin) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the **Work Order** Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt($TPUs^2$ + $TPUd^2$)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by 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.

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 39077 File Name: h:\Reportdb\edd\FeadIV\Rad\W05366.Edd, h:\Reportdb\edd\FeadIV\Rad\39077.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:
9KKH5510	B1TKJ6		MW6-SBB-A1	S08-003	W05366					03/30/2008 10:50

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8099414	ALPHA	12587-46-1	7.81E-01	pCi/L	7.7E-01	7.9E-01	U	1.24E+00	100.0	9310_ALPHABETA	2.003E-01	L	05/09/2008 15:01	I
8099415	BETA	12587-47-2	6.24E+00	pCi/L	1.7E+00	1.9E+00		2.89E+00	100.0	9310_ALPHABETA	2.002E-01	L	05/09/2008 15:16	I
8099412	BE-7	13966-02-4	2.14E+01	pCi/L	2.0E+01	2.0E+01	U	3.68E+01		GAMMALL_GS	1.9998E+00	L	05/14/2008 15:05	I
8099412	CO-60	10198-40-0	2.59E-02	pCi/L	1.7E+00	1.7E+00	U	3.03E+00		GAMMALL_GS	1.9998E+00	L	05/14/2008 15:05	I
8099412	CS-134	13967-70-9	1.66E+00	pCi/L	1.7E+00	1.7E+00	U	3.25E+00		GAMMALL_GS	1.9998E+00	L	05/14/2008 15:05	I
8099412	CS-137	10045-97-3	-9.76E-01	pCi/L	1.5E+00	1.5E+00	U	2.57E+00		GAMMALL_GS	1.9998E+00	L	05/14/2008 15:05	I
8099412	EU-152	14683-23-9	-2.42E-01	pCi/L	4.2E+00	4.2E+00	U	7.17E+00		GAMMALL_GS	1.9998E+00	L	05/14/2008 15:05	I
8099412	EU-154	15585-10-1	1.39E-01	pCi/L	4.6E+00	4.6E+00	U	8.33E+00		GAMMALL_GS	1.9998E+00	L	05/14/2008 15:05	I
8099412	EU-155	14391-16-3	1.26E+00	pCi/L	4.1E+00	4.1E+00	U	7.34E+00		GAMMALL_GS	1.9998E+00	L	05/14/2008 15:05	I
8099412	K-40	13966-00-2	-1.83E+01	pCi/L	4.9E+01	4.9E+01	U	1.03E+02		GAMMALL_GS	1.9998E+00	L	05/14/2008 15:05	I
8099412	RU-106	13967-48-1	4.46E+00	pCi/L	1.5E+01	1.5E+01	U	2.61E+01		GAMMALL_GS	1.9998E+00	L	05/14/2008 15:05	I
8099412	SB-125	14234-35-6	9.63E-01	pCi/L	4.2E+00	4.2E+00	U	7.45E+00		GAMMALL_GS	1.9998E+00	L	05/14/2008 15:05	I
8099403	I-129L	15046-84-1	3.17E-02	pCi/L	1.1E-01	1.1E-01	U	2.13E-01	117.3	I129LL_SEP_LEPS	3.8056E+00	L	05/15/2008 19:06	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:
9KKJC710	B1TKL5		MW6-SBB-A1	S08-003	W05366					03/30/2008 11:05

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8099403	I-129L	15046-84-1	1.27E+00	pCi/L	2.8E-01	2.8E-01	U	5.43E-01	97.3	I129LL_SEP_LEPS	3.9016E+00	L	05/15/2008 19:08	I
8099411	SR-90	10098-97-2	-2.36E-02	pCi/L	1.9E-01	1.9E-01	U	4.40E-01	73.3	SRISO_SEP_PRE	1.0001E+00	L	05/09/2008 05:54	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:
9KKJCH10	B1TKJ7		MW6-SBB-A1	S08-003	W05366					03/30/2008 08:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8099414	ALPHA	12587-46-1	4.99E-01	pCi/L	4.9E-01	5.0E-01	U	7.35E-01	100.0	9310_ALPHABETA	2.001E-01	L	05/09/2008 15:01	I
8099415	BETA	12587-47-2	1.27E+00	pCi/L	1.2E+00	1.2E+00	U	2.47E+00	100.0	9310_ALPHABETA	2.003E-01	L	05/09/2008 15:16	I
8099412	BE-7	13966-02-4	2.32E+01	pCi/L	2.1E+01	2.1E+01	U	4.00E+01		GAMMALL_GS	2.0002E+00	L	05/14/2008 15:06	I
8099412	CO-60	10198-40-0	6.44E-01	pCi/L	2.1E+00	2.1E+00	U	4.02E+00		GAMMALL_GS	2.0002E+00	L	05/14/2008 15:06	I
8099412	CS-134	13967-70-9	-9.56E-01	pCi/L	1.9E+00	1.9E+00	U	3.15E+00		GAMMALL_GS	2.0002E+00	L	05/14/2008 15:06	I
8099412	CS-137	10045-97-3	1.30E+00	pCi/L	1.5E+00	1.5E+00	U	2.88E+00		GAMMALL_GS	2.0002E+00	L	05/14/2008 15:06	I
8099412	EU-152	14683-23-9	1.82E+00	pCi/L	3.8E+00	3.8E+00	U	6.97E+00		GAMMALL_GS	2.0002E+00	L	05/14/2008 15:06	I

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

8099412	EU-154	15585-10-1	6.54E-01	pCi/L	5.5E+00	5.5E+00	U	1.02E+01		GAMMALL_GS	2.0002E+00	L	05/14/2008	15:06	I
8099412	EU-155	14391-16-3	-5.55E-01	pCi/L	2.5E+00	2.5E+00	U	4.30E+00		GAMMALL_GS	2.0002E+00	L	05/14/2008	15:06	I
8099412	K-40	13966-00-2	-2.66E+01	pCi/L	3.5E+01	3.5E+01	U	7.02E+01		GAMMALL_GS	2.0002E+00	L	05/14/2008	15:06	I
8099412	RU-106	13967-48-1	-1.13E+00	pCi/L	1.6E+01	1.6E+01	U	2.71E+01		GAMMALL_GS	2.0002E+00	L	05/14/2008	15:06	I
8099412	SB-125	14234-35-6	-9.45E-01	pCi/L	4.2E+00	4.2E+00	U	7.26E+00		GAMMALL_GS	2.0002E+00	L	05/14/2008	15:06	I
8099403	I-129L	15046-84-1	7.97E-02	pCi/L	1.2E-01	1.2E-01	U	2.40E-01	103.5	I129LL_SEP_LEPS	3.8942E+00	L	05/15/2008	19:07	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KKJD910	B1TKM3		MW6-SBB-A1	S08-003	W05366					03/30/2008 12:39

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
8099412	BE-7	13966-02-4	5.80E+00	pCi/L	1.7E+01	1.7E+01	U	3.05E+01		GAMMALL_GS	1.9999E+00	L	05/14/2008	15:06	I
8099412	CO-60	10198-40-0	-8.29E-02	pCi/L	1.2E+00	1.2E+00	U	2.24E+00		GAMMALL_GS	1.9999E+00	L	05/14/2008	15:06	I
8099412	CS-134	13967-70-9	-4.41E-01	pCi/L	1.4E+00	1.4E+00	U	2.41E+00		GAMMALL_GS	1.9999E+00	L	05/14/2008	15:06	I
8099412	CS-137	10045-97-3	-4.73E-02	pCi/L	1.2E+00	1.2E+00	U	2.18E+00		GAMMALL_GS	1.9999E+00	L	05/14/2008	15:06	I
8099412	EU-152	14683-23-9	-1.32E-01	pCi/L	3.6E+00	3.6E+00	U	6.20E+00		GAMMALL_GS	1.9999E+00	L	05/14/2008	15:06	I
8099412	EU-154	15585-10-1	-9.72E-02	pCi/L	3.3E+00	3.3E+00	U	6.10E+00		GAMMALL_GS	1.9999E+00	L	05/14/2008	15:06	I
8099412	EU-155	14391-16-3	-2.22E-02	pCi/L	2.9E+00	2.9E+00	U	5.04E+00		GAMMALL_GS	1.9999E+00	L	05/14/2008	15:06	I
8099412	K-40	13966-00-2	1.33E+01	pCi/L	2.4E+01	2.4E+01	U	2.05E+01		GAMMALL_GS	1.9999E+00	L	05/14/2008	15:06	I
8099412	RU-106	13967-48-1	-4.80E+00	pCi/L	1.2E+01	1.2E+01	U	1.99E+01		GAMMALL_GS	1.9999E+00	L	05/14/2008	15:06	I
8099412	SB-125	14234-35-6	1.34E+00	pCi/L	3.0E+00	3.0E+00	U	5.54E+00		GAMMALL_GS	1.9999E+00	L	05/14/2008	15:06	I
8099403	I-129L	15046-84-1	6.17E+00	pCi/L	8.9E-01	8.9E-01		3.33E-01	100.0	I129LL_SEP_LEPS	3.8921E+00	L	05/15/2008	20:51	I
8099411	SR-90	10098-97-2	-1.40E-01	pCi/L	1.7E-01	1.7E-01	U	4.26E-01	82.3	SRISO_SEP_PRE	1.0003E+00	L	05/09/2008	05:54	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:
9KKJE310	B1TKL9		MW6-SBB-A1	S08-003	W05366					03/30/2008 09:32

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
8099403	I-129L	15046-84-1	6.07E+00	pCi/L	9.4E-01	9.4E-01		3.53E-01	90.8	I129LL_SEP_LEPS	3.7856E+00	L	05/15/2008	20:52	I
8099411	SR-90	10098-97-2	-5.76E-02	pCi/L	2.2E-01	2.8E-01	U	6.22E-01	71.8	SRISO_SEP_PRE	1.0002E+00	L	05/09/2008	05:54	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:
9KKJEV10	B1TKH9		MW6-SBB-A1	S08-003	W05366					03/30/2008 13:55

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
8099410	I-129L	15046-84-1	4.90E-01	pCi/L	1.0E+00	1.0E+00	U	1.95E+00	104.9	I129_SEP_LEPS_G	5.003E-01	L	05/13/2008	20:18	I

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

8099417	TC-99	14133-76-7	7.48E+00	pCi/L	4.5E+00	6.3E+00	U	1.03E+01	100.0	TC99_SEP_LSC	1.25E-01	L	05/09/2008	00:02	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KKJJ110	B1THF2		MW6-SBB-A1	G08-003	W05366					03/30/2008 09:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8099412	BE-7	13966-02-4	-3.00E+00	pCi/L	2.1E+01	2.1E+01	U	3.61E+01		GAMMALL_GS	2.00E+00	L	05/14/2008 15:07	I
8099412	CO-60	10198-40-0	-5.29E-01	pCi/L	1.6E+00	1.6E+00	U	2.82E+00		GAMMALL_GS	2.00E+00	L	05/14/2008 15:07	I
8099412	CS-134	13967-70-9	-4.82E-01	pCi/L	1.7E+00	1.7E+00	U	3.10E+00		GAMMALL_GS	2.00E+00	L	05/14/2008 15:07	I
8099412	CS-137	10045-97-3	-8.90E-01	pCi/L	1.7E+00	1.7E+00	U	2.91E+00		GAMMALL_GS	2.00E+00	L	05/14/2008 15:07	I
8099412	EU-152	14683-23-9	2.06E+00	pCi/L	4.1E+00	4.1E+00	U	7.45E+00		GAMMALL_GS	2.00E+00	L	05/14/2008 15:07	I
8099412	EU-154	15585-10-1	4.68E+00	pCi/L	4.4E+00	4.4E+00	U	9.67E+00		GAMMALL_GS	2.00E+00	L	05/14/2008 15:07	I
8099412	EU-155	14391-16-3	-4.71E-01	pCi/L	3.0E+00	3.0E+00	U	5.23E+00		GAMMALL_GS	2.00E+00	L	05/14/2008 15:07	I
8099412	K-40	13966-00-2	-8.55E+01	pCi/L	3.6E+01	3.6E+01	U	6.86E+01		GAMMALL_GS	2.00E+00	L	05/14/2008 15:07	I
8099412	RU-106	13967-48-1	-1.51E+01	pCi/L	1.5E+01	1.5E+01	U	2.42E+01		GAMMALL_GS	2.00E+00	L	05/14/2008 15:07	I
8099412	SB-125	14234-35-6	-2.58E+00	pCi/L	3.8E+00	3.8E+00	U	6.25E+00		GAMMALL_GS	2.00E+00	L	05/14/2008 15:07	I
8099411	SR-90	10098-97-2	5.77E+00	pCi/L	6.1E-01	1.0E+00		6.72E-01	69.0	SRISO_SEP_PRE	1.0003E+00	L	05/09/2008 05:54	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:
9KKJJC10	B1TJN7		MW6-SBB-A1	I08-027	W05366					03/28/2008 11:05

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8099415	BETA	12587-47-2	3.14E+02	pCi/L	8.2E+00	4.1E+01		2.76E+00	100.0	9310_ALPHABETA	2.001E-01	L	05/09/2008 15:16	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:
9KKJJF10	B1TJF0		MW6-SBB-A1	I08-027	W05366					03/28/2008 10:08

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8099415	BETA	12587-47-2	2.48E+03	pCi/L	3.2E+01	3.2E+02		5.24E+00	100.0	9310_ALPHABETA	9.89E-02	L	05/09/2008 15:16	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:
9KKJJJ10	B1TJF1		MW6-SBB-A1	I08-027	W05366					03/28/2008 10:08

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8099415	BETA	12587-47-2	2.57E+03	pCi/L	3.3E+01	3.7E+02		5.74E+00	100.0	9310_ALPHABETA	9.41E-02	L	05/09/2008 15:16	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:
9KKJK610	B1THD3		MW6-SBB-A1	G08-003	W05366					03/28/2008 11:05

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

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8099411	SR-90	10098-97-2	1.74E+02	pCi/L	2.5E+00	2.6E+01		7.22E-01	69.6	SRISO_SEP_PRE	1.0004E+00	L	05/09/2008 05:55	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:
9KKJKA10	B1TH91		MW6-SBB-A1	G08-003	W05366					03/28/2008 10:08

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8099411	SR-90	10098-97-2	1.38E+03	pCi/L	1.7E+01	2.0E+02		2.24E+00	70.3	SRISO_SEP_PRE	2.199E-01	L	05/09/2008 05:54	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:
9KKJKL10	B1TH92		MW6-SBB-A1	G08-003	W05366					03/28/2008 10:08

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8099411	SR-90	10098-97-2	1.29E+03	pCi/L	1.5E+01	1.9E+02		3.49E+00	75.6	SRISO_SEP_PRE	2.00E-01	L	05/09/2008 05:55	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:
9KKJLD10	B1THD8		MW6-SBB-A1	G08-003	W05366					03/28/2008 12:14

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8099412	BE-7	13966-02-4	-1.42E+01	pCi/L	2.6E+01	2.6E+01	U	4.41E+01		GAMMALL_GS	2.00E+00	L	05/14/2008 15:08	I
8099412	CO-60	10198-40-0	-2.92E-01	pCi/L	2.1E+00	2.1E+00	U	3.77E+00		GAMMALL_GS	2.00E+00	L	05/14/2008 15:08	I
8099412	CS-134	13967-70-9	9.14E-02	pCi/L	2.2E+00	2.2E+00	U	3.89E+00		GAMMALL_GS	2.00E+00	L	05/14/2008 15:08	I
8099412	CS-137	10045-97-3	-6.99E-01	pCi/L	2.2E+00	2.2E+00	U	3.69E+00		GAMMALL_GS	2.00E+00	L	05/14/2008 15:08	I
8099412	EU-152	14683-23-9	9.16E-01	pCi/L	5.4E+00	5.4E+00	U	9.36E+00		GAMMALL_GS	2.00E+00	L	05/14/2008 15:08	I
8099412	EU-154	15585-10-1	-5.05E+00	pCi/L	6.2E+00	6.2E+00	U	1.02E+01		GAMMALL_GS	2.00E+00	L	05/14/2008 15:08	I
8099412	EU-155	14391-16-3	-4.11E+00	pCi/L	4.3E+00	4.3E+00	U	6.88E+00		GAMMALL_GS	2.00E+00	L	05/14/2008 15:08	I
8099412	K-40	13966-00-2	-2.95E+01	pCi/L	4.8E+01	4.8E+01	U	9.87E+01		GAMMALL_GS	2.00E+00	L	05/14/2008 15:08	I
8099412	RU-106	13967-48-1	1.91E+00	pCi/L	1.8E+01	1.8E+01	U	3.27E+01		GAMMALL_GS	2.00E+00	L	05/14/2008 15:08	I
8099412	SB-125	14234-35-6	6.27E+00	pCi/L	5.3E+00	5.3E+00	U	9.90E+00		GAMMALL_GS	2.00E+00	L	05/14/2008 15:08	I
8099411	SR-90	10098-97-2	9.69E-01	pCi/L	3.0E-01	3.4E-01		5.35E-01	72.4	SRISO_SEP_PRE	1.0001E+00	L	05/09/2008 05:55	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:
9KKL0E10	B1TVL3		MW6-SBB-A1	A08-004	W05366					04/02/2008 09:38

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8099403	I-129L	15046-84-1	1.47E+00	pCi/L	3.4E-01	3.4E-01	U	6.31E-01	86.8	I129LL_SEP_LEPS	3.8992E+00	L	05/15/2008 20:53	I

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

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

9KKL1910 B1TWT7 MW6-SBB-A1 S08-004 W05366 04/02/2008 11:28

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8099403	I-129L	15046-84-1	8.66E+00	pCi/L	1.2E+00	1.2E+00		3.73E-01	92.4	I129LL_SEP_LEPS	3.8686E+00	L	05/15/2008 22:38	I
8099411	SR-90	10098-97-2	2.02E+01	pCi/L	9.7E-01	3.1E+00		8.73E-01	67.1	SRISO_SEP_PRE	1.0004E+00	L	05/09/2008 05:55	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:
9KKL1W10	B1TWT6		MW6-SBB-A1	S08-004	W05366					04/02/2008 11:28

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8099403	I-129L	15046-84-1	1.04E+01	pCi/L	1.3E+00	1.3E+00		4.13E-01	93.2	I129LL_SEP_LEPS	3.8853E+00	L	05/15/2008 22:37	I
8099411	SR-90	10098-97-2	1.87E+01	pCi/L	8.9E-01	2.9E+00		6.38E-01	69.5	SRISO_SEP_PRE	1.00E+00	L	05/09/2008 05:55	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:
9KKPRQ10	B1TVM3		MW6-SBB-A1	A08-004	W05366					04/03/2008 11:02

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8099403	I-129L	15046-84-1	9.39E-01	pCi/L	2.3E-01	2.3E-01	U	4.85E-01	96.8	I129LL_SEP_LEPS	3.8777E+00	L	05/15/2008 22:39	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KKPTJ10	B1TVM5		MW6-SBB-A1	A08-004	W05366					04/03/2008 11:54

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8099403	I-129L	15046-84-1	1.26E+00	pCi/L	3.9E-01	3.9E-01	U	5.70E-01	101.9	I129LL_SEP_LEPS	3.8665E+00	L	05/16/2008 04:56	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:
9KKPTR10	B1TVM8		MW6-SBB-A1	A08-004	W05366					04/03/2008 10:02

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8099403	I-129L	15046-84-1	1.81E-01	pCi/L	1.5E-01	1.5E-01	U	3.14E-01	95.4	I129LL_SEP_LEPS	3.881E+00	L	05/16/2008 04:56	I

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

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05366.Edd, h:\Reportdb\edd\FeadIV\Rad\39077.Edd

Lab Sample Id: KKW351AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05366 39077
Matrix: WATER WATER
QC Type: BLK

Collection Date: 03/30/2008 13:55
Sample On Date:
Received Date: 04/01/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8099410	I-129L	-5.94E-01	pCi/L	1.0E+00	U	1.75E+00	104.3		I129_SEP_LEP	5.003E-01	05/13/2008				D
BLK	15046-84-1			1.0E+00						L	22:12				

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

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05366.Edd, h:\Reportdb\edd\FeadIV\Rad\39077.Edd

Lab Sample Id: KKW361AB **Sdg/Rept Nbr:** W05366 39077 **Collection Date:** 04/02/2008 11:28

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 04/02/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8099411	SR-90	7.31E-02	pCi/L	2.7E-01	U	5.76E-01	67.2		SRISO_SEP_P	1.0002E+00	05/09/2008				D
BLK	10098-97-2			2.3E-01						L	05:55				

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 QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05366.Edd, h:\Reportdb\edd\FeadIV\Rad\39077.Edd

Lab Sample Id: KKW381AB **Sdg/Rept Nbr:** W05366 39077 **Collection Date:** 03/30/2008 09:00

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 04/01/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8099412	BE-7	-1.08E+01	pCi/L	1.3E+01	U	2.16E+01			GAMMALL_GS	2.0002E+00	05/14/2008				D
BLK	13966-02-4			1.3E+01						L	15:08				
8099412	CO-60	1.03E-01	pCi/L	1.0E+00	U	2.01E+00			GAMMALL_GS	2.0002E+00	05/14/2008				D
BLK	10198-40-0			1.0E+00						L	15:08				
8099412	CS-134	2.09E-01	pCi/L	1.1E+00	U	2.11E+00			GAMMALL_GS	2.0002E+00	05/14/2008				D
BLK	13967-70-9			1.1E+00						L	15:08				
8099412	CS-137	5.43E-01	pCi/L	1.1E+00	U	1.99E+00			GAMMALL_GS	2.0002E+00	05/14/2008				D
BLK	10045-97-3			1.1E+00						L	15:08				
8099412	EU-152	-3.94E-01	pCi/L	2.7E+00	U	4.61E+00			GAMMALL_GS	2.0002E+00	05/14/2008				D
BLK	14683-23-9			2.7E+00						L	15:08				
8099412	EU-154	2.50E+00	pCi/L	3.6E+00	U	7.25E+00			GAMMALL_GS	2.0002E+00	05/14/2008				D
BLK	15585-10-1			3.6E+00						L	15:08				
8099412	EU-155	6.83E-02	pCi/L	2.1E+00	U	3.79E+00			GAMMALL_GS	2.0002E+00	05/14/2008				D
BLK	14391-16-3			2.1E+00						L	15:08				
8099412	K-40	1.32E+01	pCi/L	2.5E+01	U	1.46E+01			GAMMALL_GS	2.0002E+00	05/14/2008				D
BLK	13966-00-2			2.5E+01						L	15:08				
8099412	RU-106	-7.20E+00	pCi/L	1.0E+01	U	1.68E+01			GAMMALL_GS	2.0002E+00	05/14/2008				D
BLK	13967-48-1			1.0E+01						L	15:08				
8099412	SB-125	7.75E-01	pCi/L	2.4E+00	U	4.46E+00			GAMMALL_GS	2.0002E+00	05/14/2008				D
BLK	14234-35-6			2.4E+00						L	15:08				

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 QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05366.Edd, h:\Reportdb\edd\FeadIV\Rad\39077.Edd

Lab Sample Id: KKW3Q1AB **Sdg/Rept Nbr:** W05366 39077 **Collection Date:** 04/03/2008 11:02

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 04/03/2008

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
8099403	I-129L	1.78E-02	pCi/L	1.3E-01	U	2.45E-01	97.6		I129LL_SEP_L	3.8523E+00	05/16/2008				D
BLK	15046-84-1			1.3E-01						L	07:51				

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 QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05366.Edd, h:\Reportdb\edd\FeadIV\Rad\39077.Edd

Lab Sample Id: KKW4L1AB **Sdg/Rept Nbr:** W05366 39077 **Collection Date:** 03/30/2008 10:50

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 04/01/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8099414	ALPHA	-7.18E-02	pCi/L	2.2E-01	U	9.00E-01	100.0		9310_ALPHAB	2.005E-01	05/09/2008				D
BLK	12587-46-1			2.2E-01						L	15:01				

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

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05366.Edd, h:\Reportdb\edd\FeadIV\Rad\39077.Edd

Lab Sample Id:	KKW4P1AB	**Sdg/Rept Nbr:**	W05366	39077	**Collection Date:** 03/28/2008 11:05
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**BLK**		**Received Date:** 04/01/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8099415	BETA	1.65E+00	pCi/L	1.3E+00	U	2.59E+00	100.0		9310_ALPHAB	2.004E-01	05/09/2008				D
BLK	12587-47-2			1.3E+00						L	15:16				

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

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05366.Edd, h:\Reportdb\edd\FeadIV\Rad\39077.Edd

Lab Sample Id: KKW4T1AB **Sdg/Rept Nbr:** W05366 39077 **Collection Date:** 03/30/2008 13:55

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 04/01/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8099417	TC-99	5.59E+00	pCi/L	6.2E+00	U	1.02E+01	100.0		TC99_SEP_LS	1.2501E-01	05/09/2008				D
BLK	14133-76-7			4.4E+00						L	03:09				

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 QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05366.Edd, h:\Reportdb\edd\FeadIV\Rad\39077.Edd

Lab Sample Id:	KKW351CS	**Sdg/Rept Nbr:**	W05366	39077	**Collection Date:** 03/30/2008 13:55
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 04/01/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8099410	I-129L	4.54E+01	pCi/L	7.1E+00		2.17E+00	103.7	4.57E+01	I129_SEP_LEP	5.002E-01	05/13/2008			70	D
BS	15046-84-1			7.1E+00				99.3		L	22:13			130	

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

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05366.Edd, h:\Reportdb\edd\FeadIV\Rad\39077.Edd

Lab Sample Id: KKW381CS **Sdg/Rept Nbr:** W05366 39077 **Collection Date:** 03/30/2008 09:00

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 04/01/2008

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	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
8099412	CO-60	4.30E+01	pCi/L	8.0E+00		3.11E+00		3.87E+01	GAMMALL_GS	2.0002E+00	05/14/2008			70	D
BS	10198-40-0			8.0E+00				111.1		L	15:09			130	
8099412	CS-137	5.15E+01	pCi/L	8.2E+00		3.96E+00		5.04E+01	GAMMALL_GS	2.0002E+00	05/14/2008			70	D
BS	10045-97-3			8.2E+00				102.1		L	15:09			130	
8099412	EU-152	9.08E+01	pCi/L	1.7E+01		8.74E+00		7.62E+01	GAMMALL_GS	2.0002E+00	05/14/2008			70	D
BS	14683-23-9			1.7E+01				119.2		L	15:09			130	

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

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05366.Edd, h:\Reportdb\edd\FeadIV\Rad\39077.Edd

Lab Sample Id: KKW3Q1CS **Sdg/Rept Nbr:** W05366 39077 **Collection Date:** 04/03/2008 11:02

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 04/03/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8099403	I-129L	9.02E+00	pCi/L	1.2E+00		4.34E-01	101.1	9.92E+00	I129LL_SEP_L	3.9104E+00	05/16/2008			70	D
BS	15046-84-1			1.2E+00				90.9		L	07:52			130	

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

Thursday, May 22, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05366.Edd, h:\Reportdb\edd\FeadIV\Rad\39077.Edd

Lab Sample Id:	KKW4L1CS	**Sdg/Rept Nbr:**	W05366	39077	**Collection Date:** 03/30/2008 10:50
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**BS**		**Received Date:** 04/01/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8099414	ALPHA	1.93E+01	pCi/L	4.9E+00		7.22E-01	100.0	2.23E+01	9310_ALPHAB	2.005E-01	05/09/2008			70	D
BS	12587-46-1			2.9E+00				86.2		L	15:01			130	

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

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05366.Edd, h:\Reportdb\edd\FeadIV\Rad\39077.Edd

Lab Sample Id: KKW4P1CS **Sdg/Rept Nbr:** W05366 39077 **Collection Date:** 03/28/2008 11:05

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 04/01/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8099415	BETA	2.40E+01	pCi/L	3.9E+00		2.63E+00	100.0	2.22E+01	9310_ALPHAB	2.003E-01	05/09/2008			70	D
BS	12587-47-2			2.5E+00				107.9		L	15:16			130	

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

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05366.Edd, h:\Reportdb\edd\FeadIV\Rad\39077.Edd

Lab Sample Id: KKW4T1CS **Sdg/Rept Nbr:** W05366 39077 **Collection Date:** 03/30/2008 13:55

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 04/01/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8099417	TC-99	4.98E+02	pCi/L	3.5E+01		1.03E+01	100.0	5.47E+02	TC99_SEP_LS	1.2501E-01	05/09/2008			70	D
BS	14133-76-7			1.3E+01				90.9		L	04:12			130	

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

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05366.Edd, h:\Reportdb\edd\FeadIV\Rad\39077.Edd

Lab Sample Id:	KKH551FR	**Sdg/Rept Nbr:**	W05366	39077	**Collection Date:** 03/30/2008 10:50
Client Id:	B1TKJ6	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**DUP**		**Received Date:** 04/01/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8099414	ALPHA	2.22E+00	pCi/L	1.3E+00		1.41E+00	100.0		9310_ALPHAB	2.001E-01	05/09/2008	95.8	1.5		D
DUP	12587-46-1	7.81E-01		1.2E+00						L	15:01	20.0	3		

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

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05366.Edd, h:\Reportdb\edd\FeadIV\Rad\39077.Edd

Lab Sample Id: KKJEV1DR **Sdg/Rept Nbr:** W05366 39077 **Collection Date:** 03/30/2008 13:55

Client Id: B1TKH9 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 04/01/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8099410	I-129L	1.68E-01	pCi/L	9.2E-01	U	1.76E+00	106.5		I129_SEP_LEP	5.00E-01	05/13/2008	97.6	0.5		D
DUP	15046-84-1	4.90E-01		9.2E-01						L	20:18	20.0	3		

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

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05366.Edd, h:\Reportdb\edd\FeadIV\Rad\39077.Edd

Lab Sample Id:	KKJEV1FR	**Sdg/Rept Nbr:**	W05366	39077	**Collection Date:** 03/30/2008 13:55
Client Id:	B1TKH9	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 04/01/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8099417	TC-99	9.95E+00	pCi/L	6.5E+00	U	1.03E+01	100.0		TC99_SEP_LS	1.25E-01	05/09/2008	28.3	0.5		D
DUP	14133-76-7	7.48E+00		4.6E+00						L	02:07	20.0	3		

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

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05366.Edd, h:\Reportdb\edd\FeadIV\Rad\39077.Edd

Lab Sample Id: KKJJ11DR **Sdg/Rept Nbr:** W05366 39077 **Collection Date:** 03/30/2008 09:00
Client Id: B1THF2 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 04/01/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
G08-003	MW6-SBB-A19981								AY	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8099412	BE-7	1.32E+01	pCi/L	2.0E+01	U	3.70E+01			GAMMALL_GS	2.00E+00	05/14/2008	317.0	1.2		D
DUP	13966-02-4	-3.00E+00		2.0E+01						L	18:42	20.0	3		
8099412	CO-60	7.13E-01	pCi/L	1.7E+00	U	3.39E+00			GAMMALL_GS	2.00E+00	05/14/2008	1343.4	1.		D
DUP	10198-40-0	-5.29E-01		1.7E+00						L	18:42	20.0	3		
8099412	CS-134	9.14E-01	pCi/L	1.8E+00	U	3.39E+00			GAMMALL_GS	2.00E+00	05/14/2008	646.3	1.1		D
DUP	13967-70-9	-4.82E-01		1.8E+00						L	18:42	20.0	3		
8099412	CS-137	1.79E+00	pCi/L	1.6E+00	U	3.20E+00			GAMMALL_GS	2.00E+00	05/14/2008	595.0	2.3		D
DUP	10045-97-3	-8.90E-01		1.6E+00						L	18:42	20.0	3		
8099412	EU-152	-3.28E+00	pCi/L	4.1E+00	U	6.72E+00			GAMMALL_GS	2.00E+00	05/14/2008	0.0	1.9		D
DUP	14683-23-9	2.06E+00		4.1E+00						L	18:42	20.0	3		
8099412	EU-154	-7.58E-01	pCi/L	4.9E+00	U	8.96E+00			GAMMALL_GS	2.00E+00	05/14/2008	277.4	1.6		D
DUP	15585-10-1	4.68E+00		4.9E+00						L	18:42	20.0	3		
8099412	EU-155	-1.41E+00	pCi/L	3.3E+00	U	5.57E+00			GAMMALL_GS	2.00E+00	05/14/2008	0.0	0.4		D
DUP	14391-16-3	-4.71E-01		3.3E+00						L	18:42	20.0	3		
8099412	K-40	4.81E+00	pCi/L	3.6E+01	U	2.90E+01			GAMMALL_GS	2.00E+00	05/14/2008	0.0	3.5		D
DUP	13966-00-2	-8.55E+01		3.6E+01						L	18:42	20.0	3		
8099412	RU-106	-5.46E+00	pCi/L	1.6E+01	U	2.76E+01			GAMMALL_GS	2.00E+00	05/14/2008	0.0	0.9		D
DUP	13967-48-1	-1.51E+01		1.6E+01						L	18:42	20.0	3		
8099412	SB-125	2.15E+00	pCi/L	4.3E+00	U	7.91E+00			GAMMALL_GS	2.00E+00	05/14/2008	0.0	1.5		D
DUP	14234-35-6	-2.58E+00		4.3E+00						L	18:42	20.0	3		

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

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05366.Edd, h:\Reportdb\edd\FeadIV\Rad\39077.Edd

Lab Sample Id: KKJJC1CR **Sdg/Rept Nbr:** W05366 39077 **Collection Date:** 03/28/2008 11:05

Client Id: B1TJN7 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 04/01/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-027	MW6-SBB-A19981								AZ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8099415	BETA	3.37E+02	pCi/L	4.4E+01		2.60E+00	100.0		9310_ALPHAB	2.002E-01	05/09/2008	7.2	0.8		D
DUP	12587-47-2	3.14E+02		8.5E+00						L	15:16	20.0	3		

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

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05366.Edd, h:\Reportdb\edd\FeadIV\Rad\39077.Edd

Lab Sample Id:	KKL1W1DR	**Sdg/Rept Nbr:**	W05366 39077	**Collection Date:**	04/02/2008 11:28
Client Id:	B1TWT6	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	04/02/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8099411	SR-90	2.01E+01	pCi/L	7.3E+00		7.07E-01	74.1		SRISO_SEP_P	1.0001E+00	05/09/2008	7.1	0.3		D
DUP	10098-97-2	1.87E+01		9.6E-01						L	05:55	20.0	3		

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

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05366.Edd, h:\Reportdb\edd\FeadIV\Rad\39077.Edd

Lab Sample Id:	KKPRQ1CR	**Sdg/Rept Nbr:**	W05366	39077	**Collection Date:** 04/03/2008 11:02
Client Id:	B1TVM3	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 04/03/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A08-004	MW6-SBB-A19981								BB	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8099403	I-129L	8.18E-01	pCi/L	2.8E-01	U	4.81E-01	93.5		I129LL_SEP_L	3.8748E+00	05/16/2008	13.7	0.6		D
DUP	15046-84-1	9.39E-01		2.8E-01						L	04:55	20.0	3		

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

TestAmerica Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05366.Edd, h:\Reportdb\edd\FeadIV\Rad\39077.Edd

Lab Sample Id: KKJEV1EW **Sdg/Rept Nbr:** W05366 39077 **Collection Date:** 03/30/2008 13:55

Client Id: B1TKH9 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** MS **Received Date:** 04/01/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8099417	TC-99	3.36E+03	pCi/L	2.1E+02		1.02E+01	100.0	3.64E+03	TC99_SEP_LS	1.25E-01	05/09/2008			60	D
MS	14133-76-7			3.2E+01				92.4		L	01:04			140	

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

5/13/2008 11:34:03 AM

Lot No., Due Date: J8D010209; 05/19/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8099414; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05366; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used OK	✓		
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. RPD > UCL : 20.0=> KKH551AF ALPHA 96.0 (RPD)		✓	
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK	✓		
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => ALPHA OK; No Callin Level Found => ALPHA	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

8.26 Instruments have Current Calibrations. Yes No N/A

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

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

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

8.3 Comments:

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

First Level Review Tina Anderson **Date** 5/13/08

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8099414

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 [illegible] Date: 5/13/15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

5/13/2008 11:28:05 AM

Lot No., Due Date: J8D010209,J8D010244; 05/19/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8099415; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05366; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used Analysis Volume => KKJJF1AA 98.90<200.00 KKJJJ1AA 94.10<200.00 Q:VB		✓	
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments: NCM 10-12315			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. MDC/MDA > CRDL => KKJJF1AA BETA 5.2E+00>4.0E+00 KKJJJ1AA BETA 5.7E+00>4.0E+00 Q:C1		✓	
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => KKH551AC BETA 6.2E+00 L:2.9E+00 KKJJC1AA BETA 3.1E+02 L:2.8E+00 KKJJF1AA BETA 2.5E+03 L:5.2E+00 KKJJJ1AA BETA 2.6E+03 L:5.7E+00		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => BETA OK; No Callin Level Found => BETA	✓		

8.24 Result + 3s >=0, Not Too Negative. OK	Yes ✓	No	N/A
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!	Yes	No	N/A ✓
8.26 Instruments have Current Calibrations.	Yes	No	N/A
8.27 Correct Count Library Used. No Count Library found in Batch Data!	Yes	No	N/A ✓
8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8 3 Comments:			
3.31 Results Blank Subtracted as Appropriate. OK	Yes ✓	No	N/A

First Level Review Lisa Christenson **Date** 5/13/08

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 809941~~6~~5
9 5/13/8

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

Comments on any "No" response: See Ncm

Second Level Review: Erika Ford Date: 5/13/8

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-12315**
NCM Initiated By: Lisa Antonson
Date Opened: 05/13/2008
Date Closed:

Classification: **Anomaly**
Status: **QAREVIEW**
Production Area: Environmental - Prep
Tests: Beta by GPC-Sr/Y
Lot #'s (Sample #'s): J8D010209 (1,2), J8D010244 (1,2,3), J8D080000 (415),
QC Batches: 8099415,

Nonconformance: MDA not met
Subcategory: Data accepted

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	05/13/2008	Samples KKJJF and KKJJJ do not meet CRDL due to reduced aliquots based on activity screening. The sample results exceed the MDA achieved, data accepted.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	05/13/2008	NA

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note
	Response	Response Note			

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

5/20/2008 1:05:06 PM

Lot No., Due Date: J8D010209,J8D010253,J8D020362; 05/19/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8099411; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05366; WATER

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

6.0 Comments on any No response:
Please see NCM # 10-12353

First Level Review John Norton **Date** 5-20-8

estAmerica

HE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8099411

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

Comments on any "No" response: See NCM

Second Level Review: Erika Dad Date: 5/22/15

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-12281**
NCM Initiated By: Debbie Manis
Date Opened: 05/07/2008
Date Closed:

Classification: **Deficiency**
Status: **GLREVIEW**
Production Area: Environmental - Sep
Tests: Sr-85/90 by GPC-7
Lot #'s (Sample #'s): J8D080000 (411),
QC Batches: 8099411,

Nonconformance: Sample loss
Subcategory: Laboratory error: prep error

Problem Description / Root Cause

Name	Date	Description
Debbie Manis	05/07/2008	Planchet dropped during processing. Batch analyzed concurrently with batch 8108465.
John Norton	05/20/2008	

Corrective Action

Name	Date	Corrective Action
Debbie Manis	05/07/2008	Submitted other samples to the count room. Initiated NCM.
John Norton	05/20/2008	With client permission, this batch will be accepted based on the LCS from batch 8108465 (KLH631ac) wich provided an acceptable yield of 109%.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

5/15/2008 4:15:35 PM

Lot No., Due Date: J8D010209,J8D010253; 05/19/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8099412; RGAMMA Gamma by GER

SDG, Matrix: W05366; WATER

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

6.0 Comments on any No response:

First Level Review Lisa Anderson **Date** 5/15/08

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8099412

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 [illegible] Date: 5/16/08

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

5/15/2008 1:13:29 PM

Lot No., Due Date: J8D010209; 05/19/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8099410; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05366; 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 Vorton **Date** 5-15-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 809941D

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 [illegible] Date: 5/15/8

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

5/16/2008 1:04:11 PM

Lot No., Due Date: J8D010209,J8D020359,J8D020362,J8D040135; 05/19/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8099403; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05366; WATER

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 5-16-8

estAmerica

HE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8099403

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: Erica Ford Date: 5/16/18

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

5/13/2008 10:47:33 AM

Lot No., Due Date: J8D010209; 05/19/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8099417; RTC99 Tc-99 by LSC

SDG, Matrix: W05366; WATER

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 5-13-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8099417

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 Jordan Date: 8/13/8

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D010209 W05366 Due 05-16-08

S08-003-164

Collector FLUOR HANFORD R.F. CARRIGAN	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. S08-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV. MARCH 2008	HNF-N-506-12	**Ice Chest No.** **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV.	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TKJ6		W	3/26/08	1056	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1TKJ6		W			1x20-mL P	Activity Scan	None
B1TKJ6		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1TKJ6		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
						KKH55	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD R.F. CARRIGAN	R.F. Carrigan		APR 0 1 2008 1105		LJLANE	TALR	APR 0 1 2008 1105
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

T8D010209 W05366 Due 05 16 08

S08-003-165

Collector FLUOR HANFORD R.F. CARRIGAN	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. S08-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV. MARCH 2008		**Ice Chest No.** **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TKJ7		W	3/30/08		1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1TKJ7		W			1x20-mL P	Activity Scan	None
B1TKJ7		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1TKJ7		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
						KKJCH	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD R.F. CARRIGAN		R F Carrigan	1105 APR 01 2008		LWLANE	TALR	1105 APR 01 2008
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D010209 W05366 Due 05-16-08

S08-003-26

Collector L.D. WALL	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. S08-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, MARCH 2008	HNF-N-506 15	**Ice Chest No.** **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time**
Site-Wide Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TKL5		W	3-30-08	1105	1x20-mL P	Activity Scan	None
B1TKL5		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1TKL5		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						KKJC7	

Relinquished By	L.D. WALL Print	L.D. Wall Sign	Date/Time 1105 APR 0 2008	Received By	LJLANE Print	TALR Sign	Date/Time 1105 APR 0 2008
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D010209 W05366 Due 05 16 08

S08-003-38

Collector L. D. WALL	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. S08-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, MARCH 2008	HNF-N-506 15	**Ice Chest No.** **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time**
Site-Wide Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TKM3		W	3-20-08	1239	1x20-mL P	Activity Scan	None
B1TKM3		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1TKM3		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1TKM3		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
						KRJD9	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
L. D. WALL	L. D. Wall		APR 0 1 2008 1105		LJLANE	TALR	APR 0 1 2008 1105
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D070209 W05366 Due 05-16-08

S08-003-50

Collector L. D. WALL	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. S08-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV. MARCH 2008	HNF-N-506 15	**Ice Chest No.** **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TKH9		W	3-30-08	1355	1x20-mL P	Activity Scan	None
B1TKH9		W	↓	↓	2x4000-mL G/P	I129_SEP_LEPS_GS: I-129 (1)	None
B1TKH9		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2

KKJEV

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	L. D. WALL	LD Wall	APR 01 2008 1105		LJLANE	TALR	APR 01 2008 1105
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

S08-003-32

Collector FLUOR HANFORD ~~R.F. CARRIGAN~~	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. S08-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV MARCH 2008	Logbook: HNF-N-506-15	**Ice Chest No.** **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TKL9		W	3/31/08	0932	1x20-mL P	Activity Scan	None
B1TKL9		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1TKL9		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

KRJE3

D. Wall 3/31/08

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD R.F. CARRIGAN	R.F. Carrigan	R.F. Carrigan	APR 01 2008 1135	KJK LJLANE	TALR		APR 01 2008 1105
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 04.01.08 11.05 GM Screen Result 2

Client: PGW SDG #: W05364 NA[ ] SAF #: 508-003 NA [ ]

Work Order Number: J8D010209 Chain of Custody # 508-003-164, 165, 26, 38, 50, 32

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 6
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - _____ Tape
   - _____ Custody Seals
   - ✓ Hazard Lables
   - _____ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - _____ Broken
   - _____ Leaking
   - _____ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ] Amount HNO_3 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: LL L. Smith Date: 04.01.08

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

J8D070244 W05366 Due 05.16.08

I08-027-84

Collector FLUOR HANFORD R.F. CARRIGAN	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-027	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100NR2IAM, MARCH 2008	4NF-N-506.13 ps 5	**Ice Chest No.** **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol CERCLA	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time**
100 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TJN7		W	3/23/08	1105	1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
B1TJN7		W	3/23/08	1105	1x20-mL P	Activity Scan	None
						KKJJC	

Relinquished By	Date/Time	Received By	Date/Time
FLUOR HANFORD R.F. CARRIGAN Print / Sign	1105	LJLANE TALR Print / Sign	1105
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D010244 W05366 Due 05-16-08

I08-027-2

Collector FLUOR HANFORD R.F. CARRIGAN	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-027	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100NR2IAM, MARCH 2008	HNF-N-506-13 pg 51	**Ice Chest No.** **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol CERCLA	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
100 Area Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TJF0		W	3/28/08	1008	1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
B1TJF0		W	3/28/08	1008	1x20-mL P	Activity Scan	None
						KKJJ7	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD R.F. CARRIGAN			APR 01 2008 1105		LJLANE	TALR	APR 01 2008 1105
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D010244 W05366 Due 05.16.08

I08-027-3

Collector ~~FLUOR HANFORD~~ R.F. CARRIGAN	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-027	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100NR2IAM, MARCH 2008	HNF-IV-506-13 pg 51	**Ice Chest No.** **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol CERCLA	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time**
100 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TJF1		W	3-28-08	1008	1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
B1TJF1		W	3/28/08	1008	1x20-mL P	Activity Scan	None

KKJJJ

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD R.F. CARRIGAN			APR 01 2008 1105		LJ LANE	TALR	APR 01 2008 1105
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 04/01/08 11:05 GM Screen Result .2

Client: PGW SDG #: W05364 NA[ ] SAF #: I08-027 NA [ ]

Work Order Number: JSD010244 Chain of Custody # I08-027-84, 2.3

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 3
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ____ Custody Seals
   - ____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ] Amount HNO_3 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: LL S. Smith Date: 04-01-08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D010253 W05366 Due 05.16.08

G08-003-96

Collector L.D. WALL	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. G08-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 1NR2-RB, MARCH 2008	HNF-N-506 15	**Ice Chest No.** **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time**
100 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1THF2		W	3-10-08	0900	1x20-mL P	Activity Scan	None
B1THF2		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1THF2		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						KKJJ1	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
L.D. WALL	L.D. Wall		APR 0 1 2008 1105		LJ LANE	TALR	APR 0 1 2008 1105
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D010253 W05566 Due 05-16-08

G08-003-38

Collector FLUOR HANFORD R.F. CARRIGAN	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. G08-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 1NR2-RB, MARCH 2008	HNF-N-506-13 pg 51	**Ice Chest No.** **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time**
100 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TH91		W	3/28/08	1008	1x20-mL P	Activity Scan	None
B1TH91		W	3/28/08	1008	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

KKJKA

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD R.F. CARRIGAN			APR 01 2008 1105		LVLANE	TALR	APR 01 2008 1105
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D010253 W05366 Due 05-16-08

G08-003-39

Collector FLUOR HANFORD ~~R.F. CARRIGAN~~	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. G08-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 1NR2-RB, MARCH 2008	HNF-N-506-13 pg 51	**Ice Chest No.** **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
100 Area Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TH92		W	3/28/08	1008	1x20-mL P	Activity Scan	None
B1TH92		W	3/28/08	1008	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

KRJRL

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD ~~R.F. CARRIGAN~~		R F Carrigan	1105 APR 01 2008		LILANE	TALR	1105 APR 01 2008
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D010253 W05366 Due 05-16-08

G08-003-84

Collector FLUOR HANFORD R.F. CARRIGAN	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. G08-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 1NR2-RB, MARCH 2008	HNF-N-506-13 pg 51	**Ice Chest No.** **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
100 Area Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1THD3		W	3/28/08	1105	1x20-mL P	Activity Scan	None
B1THD3		W	3/28/08	1105	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						KKJK6	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD R.F. CARRIGAN		RF Carrigan	APR 1 2008 1105		R.R. LUCANE	TALR	1105 APR 1 2008
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D010253 W05366 Due 05-16-08

G08-003-90

Collector FLUOR HANFORD R.F. CARRIGAN	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. G08-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title INR2-RB, MARCH 2008	HNF-N-506-13 Rg 51	**Ice Chest No.** **Temp.**
Shipped To (Lab) TestAmerica Incorporated Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority: 45 Days**	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
100 Area Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1THD8		W	3/28/08	1214	1x20-mL P	Activity Scan	None
B1THD8		W	1	1	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1THD8		W	1	1	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
						KKJLD	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD R.F. CARRIGAN	R.F. Carrigan		1105 APR 0 1 2008		LWLANE	TALR	1105 APR 0 1 2008
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 04 01 08 11:05 GM Screen Result .2

Client: PGW SDG #: W05366 NA[ ] SAF #: G08 003 NA [ ]

Work Order Number: J8D010253 Chain of Custody # G08 003-96, 38, 39

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 5
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - _____ Tape
   - _____ Custody Seals
   - _____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - _____ Broken
   - _____ Leaking
   - _____ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ] Amount HNO_3 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: LL S. Smith Date: 04 01 08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D020359 W05366 DUE 5 16 08 KKLOE

A08-004-1

Collector D. J. Sparks	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. A08-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title LLWMA(2)-PA, APRIL 2008	Logbook: HNF-N-506-15	**Ice Chest No.** **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol Other	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
200 Area Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TVL3		W	4/2/08	0938	1x20-mL P	Activity Scan	None
B1TVL3		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

J. Wood 4/2/08

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. J. Sparks			4-2-08 1130	R.T. Schlie			4-2-08 1130
R.T. Schlie			4-2-08 1230	K.K. Lowe			4-2-08 1230
					TALR		
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 4 2 08 1230 GM Screen Result 0.1 K

Client: PGW SDG #: W05366 NA[ ] SAF #: A08-004 NA [ ]

Work Order Number: J8D020359 Chain of Custody # A08-004-1

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ✓ Custody Seals
   - ____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ] Amount HNO_3 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 2 08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023 Rev 7 1/08

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D020362 W05366 DUE 5 16 08 KKLIW

S08-004-159

Collector D. J. Sparks	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. S08-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV. APRIL 2008	Logbook: HNF-N-506-15	**Ice Chest No.** **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TWT6		W	4/2/08	1128	1x20-mL P	Activity Scan	None
B1TWT6		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1TWT6		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

L. Wade 4/2/08

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. J. Sparks	D. J. Sparks		4-2-08 1130	R.T. Sickle	R.T. Sickle		4-2-08 1130
R.T. Sickle	R.T. Sickle		4-2-08 1230	LILANE TALR	LILANE TALR		4-2-08 1230
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D020362 WO5366 DUE 5 16 08 KKL19

S08-004-160

Collector D. J. Sparks	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. S08-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, APRIL 2008	Logbook: HNF-N-506-15	**Ice Chest No.** **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TWT7		W	4/2/08	1128	1x20-mL P	Activity Scan	None
B1TWT7		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1TWT7		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

R. Walo 4/2/08

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. J. Sparks			4-2-08 1130	R.T. Sickle			4-2-08 1130
R.T. Sickle			4-2-08 1230	LJLANE TALR			4-2-08 1230
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 4 2 08 1230 GM Screen Result 0.1 K

Client: PGW SDG #: WO5366 NA[ ] SAF #: 508-004 NA [ ]

Work Order Number: J8D020362 Chain of Custody # 508-004-159,-160

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ✓ Custody Seals
   - ____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ] Amount HNO_3 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 2 08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023 Rev 7 1/08

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D040135 WO5366 Due 05.19.08

A08-004-11

Collector D. J. Sparks	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. A08-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title LLWMA(2)-PA, APRIL 2008	Logbook: HNF-N-506-15	**Ice Chest No.** JMZ-137 **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol Other	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time**
200 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TVM3		W	4/3/08	1102	1x20-mL P	Activity Scan	None
B1TVM3		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						KKPRQ	

D. L. Wood 4/3/08

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. J. Sparks			4-3-08 1410		LLANE	TALR	4-3-08 1410
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D040135 W05366 Due 05-19-08

A08-004-13

Collector D. J. Sparks	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. A08-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title LLWMA(2)-PA, APRIL 2008	Logbook: HNF-N-506-15	**Ice Chest No.** 3mk-137 **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol Other	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
200 Area Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TVM5		W	4/3/08	1154	1x20-mL P	Activity Scan	None
B1TVM5		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						KKPTJ	

R. Wall 4/3/08

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. J. Sparks			4-3-08 1410		L J LANE	TALR	4-3-08 1410
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

A08-004-16

Collector D. J. Sparks	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. A08-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title LLWMA(2)-PA, APRIL 2008	Logbook: HNF-N-506-15	**Ice Chest No.** SMC-137 **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol Other	**Priority:** 45 Days	**Offsite Property No.**

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
200 Area Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TVM8		W	4/3/08	1002	1x20-mL P	Activity Scan	None
B1TVM8		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						KKPTR	
						R. Wall 4/3/08	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	D. J. Sparks	[signature]	1410 4-3-08	[signature]	LJLANE	TALK	1410 4-3-08
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 4 3 08 1410 **GM Screen Result** 0.1K

Client: PGW **SDG #:** W05364 NA[ ] **SAF #:** A08-004 NA [ ]

Work Order Number: J8D040135 **Chain of Custody #** A08-004-11,-13,-16

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

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 3
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ___ Tape
   - ✓ Custody Seals
   - ___ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ___ Broken
   - ___ Leaking
   - ___ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ] **Amount HNO_3 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 3 08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023 Rev. 7 1/08

5/7/2008 11:48:13 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: 245

AnalyDueDate: 05/16/2008 W53666

Sep1 DT/Tm Tech:

Batch: 8099414 WATER pCi/L

PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD \ Bock J.

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KKH55-1-AA J8D010209-1-SAMP 03/30/2008 10:50		200.30g,in AmtRec: 20ML,LP,3X4LP #Containers: 5		1.5	30.0	50	1[illegible]	1528	5/7/08 rm Scr: Alpha: -8.14E-07 uCi/Sa	Beta: -7.57E-07 uCi/Sa
2 KKH55-1-AF-X J8D010209-1-DUP 03/30/2008 10:50		200.10g,in AmtRec: 20ML,LP,3X4LP #Containers: 5			30.6		103		Scr: Alpha: -8.14E-07 uCi/Sa	Beta: -7.57E-07 uCi/Sa
3 KKJCH-1-AA J8D010209-2-SAMP 03/30/2008 08:00		200.10g,in AmtRec: 20ML,LP,3X4LP #Containers: 5			0.7		106		Scr: Alpha: 2.83E-07 uCi/Sa	Beta: 2.46E-07 uCi/Sa
4 KKW4L-1-AA-B J8D080000-414-BLK 03/30/2008 10:50		200.50g,in AmtRec: #Containers: 1			0.5		109		Scr: Alpha:	Beta:
5 KKW4L-1-AC-C J8D080000-414-LCS 03/30/2008 10:50		200.50g,in AmtRec: #Containers: 1	ASD4464 04/17/08,pd 06/01/01,r		0.9		10E		Scr: Alpha:	Beta:

Comments: PH<2.0 DH 5/7/08

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

KKH551AA-SAMP Constituent List:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #:

AnalyDueDate: 05/16/2008

Sep1 DT/Tm Tech:

Batch: 8099414 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

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

KKW4L1AA-BLK:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:
KKW4L1AC-LCS:
Am-241 RDL: pCi/L LCL:70 UCL:130 RPD:20

KKH551AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KKW4L1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KKW4L1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

5/13/2008 11:33:36 AM

ICOC Fraction Transfer/Status Report

ByDate: 5/14/2007, 5/18/2008, Batch: '8099414', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8099414						
AC		**Rev1C**	**HarrisD**	5/7/2008 11:44:39		
SC			wagarr	IsBatched	4/8/2008 3:12:43 PM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	5/7/2008 11:44:39 AM	RICH-RC-5014 Revision 7
SC			HarrisD	Prep1C	5/7/2008 11:48:17 AM	RICH-RC-5014 REVISION 7
SC			BockJ	InPrep2	5/8/2008 8:36:49 AM	RICH-RC-5014 REVISION 7
SC			BockJ	Prep2C	5/9/2008 1:39:29 PM	RICH-RC-5014 REVISION 7
SC			ClarkR	InCnt1	5/9/2008 2:04:33 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	5/9/2008 9:25:44 PM	RICH-RD-0003 REVISION 5
SC			antonsonl	Rev1C	5/13/2008 11:33:23 AM	RICH-RC-0002 REV 8
AC			**HarrisD**	5/7/2008 11:48:17		
AC			**BockJ**	5/8/2008 8:36:49 AM		
AC			**BockJ**	5/9/2008 1:39:29 PM		
AC			**ClarkR**	5/9/2008 2:04:33 PM		
AC			**DAWKINSO**	5/9/2008 9:25:44 PM		
AC			**antonsonl**	5/13/2008 11:33:23		

AC: Accepting Entry; SC: Status Change

5/9/2008 12:27:12 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
5I CLIENT: HANFORD

Pipet #: 245

AnalyDueDate: 05/16/2008 W053664

Sep1 DT/Tm Tech:

Batch: 8099415 **WATER** **pCi/L** **PM, Quote: SS , 57671**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 8099403 BNTB, 8099410 BNTB, 8099411 CLTL, 8099412 AWTA, 8099414 AZS7, 8099415 BCS8, 8099417
AMS5,

Prep Tech: ,HarrisD Becky

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KKH55-1-AC J8D010209-1-SAMP 03/30/2008 10:50		200.20g,in AmtRec: 20ML,LP,3X4LP #Containers: 5		1.5	65.1	100	26A Scr: Alpha: -8.14E-07 uCi/Sa	1604	579/ORDC Beta: -7.57E-07 uCi/Sa	
2 KKJCH-1-AC J8D010209-2-SAMP 03/30/2008 08:00		200.30g,in AmtRec: 20ML,LP,3X4LP #Containers: 5			0.4		26B Scr: Alpha: 2.83E-07 uCi/Sa		Beta: 2.46E-07 uCi/Sa	
3 KKJJC-1-AA J8D010244-1-SAMP 03/28/2008 11:05		200.10g,in AmtRec: 20ML,LP #Containers: 2			70.1		26C Scr: Alpha: 2.28E-07 uCi/Sa		Beta: 5.20E-08 uCi/Sa	
4 KKJJC-1-AC-X J8D010244-1-DUP 03/28/2008 11:05		200.20g,in AmtRec: 20ML,LP #Containers: 2			69.2		26D Scr: Alpha: 2.28E-07 uCi/Sa		Beta: 5.20E-08 uCi/Sa	
5 KKJJF-1-AA See comment box J8D010244-2-SAMP 03/28/2008 10:08		98.90g,in AmtRec: 20ML,LP #Containers: 2			36.8		27A Scr: Alpha: 8.96E-08 uCi/Sa		Beta: 9.12E-07 uCi/Sa 9.9E-02L	
6 KKJJJ-1-AA See comment box J8D010244-3-SAMP 03/28/2008 10:08		94.10g,in AmtRec: 20ML,LP #Containers: 2			37.8		27B Scr: Alpha: -3.22E-08 uCi/Sa		Beta: 9.56E-07 uCi/Sa 9.4E-02L	
7 KKW4P-1-AA-B J8D080000-415-BLK 03/28/2008 11:05		200.40g,in AmtRec: #Containers: 1			0.3		27D Scr:	Alpha:	Beta:	

5/7/2008 11:54:44 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 05/16/2008

Batch: 8099415 pCi/L
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 KKW4P-1-AC-C J8D080000-415-LCS 03/28/2008 11:05	AmtRec:	200.30g,in	BESB3244 04/02/08,pd #Containers: 1	1.5	0.9	50	281	1604	5/9/08	

Scr: Alpha: Beta:

Comments: PH2.0, KKJJF & KKJJJ reduced due to screening DH 5/7/08

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

KKH551AC-SAMP Constituent List:

BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
KKW4P1AA-BLK:					
BETA	RDL:4.00E+00	pCi/L	LCL:	UCL:	RPD:
KKW4P1AC-LCS:					
Sr-90	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

KKH551AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KKW4P1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KKW4P1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

5/13/2008 11:27:41 AM

ICOC Fraction Transfer/Status Report

ByDate: 5/14/2007, 5/18/2008, Batch: '8099415', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8099415						
AC		Rev1C	HarrisD	5/7/2008 11:49:27		
SC			wagarr	IsBatched	4/8/2008 3:12:43 PM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	5/7/2008 11:49:27 AM	RICH-RC-5014 Revision 7
SC			HarrisD	Prep1C	5/7/2008 11:54:46 AM	RICH-RC-5014 REVISION 7
SC			BockJ	InPrep2	5/8/2008 8:36:57 AM	RICH-RC-5014 REVISION 7
SC			BockJ	Prep2C	5/9/2008 1:40:04 PM	RICH-RC-5014 REVISION 7
SC			ClarkR	InCnt1	5/9/2008 2:05:09 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	5/9/2008 9:25:25 PM	RICH-RD-0003 REVISION 5
SC			antonsonl	Rev1C	5/13/2008 11:27:35 AM	RICH-RC-0002 REV 8
AC			HarrisD	5/7/2008 11:54:46		
AC			BockJ	5/8/2008 8:36:57 AM		
AC			BockJ	5/9/2008 1:40:04 PM		
AC			ClarkR	5/9/2008 2:05:09 PM		
AC			DAWKINSO	5/9/2008 9:25:25 PM		
AC			antonsonl	5/13/2008 11:27:35		

AC: Accepting Entry; SC: Status Change

5/7/2008 4:44:04 PM

Sample Preparation/Analysis

Balance Id:1120482733,1120373922,1120

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 05/16/2008

Sep1 DT/Tm Tech: 04/30/2008 15:00,ManisD

Batch: 8099411 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech: 05/07/2008 10:09,ManisD

SEQ Batch, Test: None

Prep Tech: McDowellD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KKJC7-1-AC J8D010209-3-SAMP		1000.10g,in	SRTB16098 04/17/08,pd 05/22/07 r		1.0	23.5	100	3C	d643	5/8/08	
						~~04/30/2008 15:00,s1, 05/07/2008~~		3C	d639	5/8/08	
03/30/2008 11:05		AmtRec: 20ML,3XLP,2X4LP	#Containers: 6					Scr:	Alpha: -8.88E-08 uCi/Sa		Beta: -1.56E-07 uCi/Sa
2 KKJD9-1-AD J8D010209-4-SAMP		1000.30g,in	SRTB16099 04/17/08,pd 05/22/07 r		1.0	23.2	100	3D	d643	5/8/08	
						~~04/30/2008 15:00,s1, 05/07/2008~~		3D	d639	5/8/08	
03/30/2008 12:39		AmtRec: 20ML,3XLP,3X4LP	#Containers: 7					Scr:	Alpha: -6.35E-07 uCi/Sa		Beta: 1.11E-06 uCi/Sa
3 KKJE3-1-AC J8D010209-6-SAMP		1000.20g,in	SRTB16100 04/17/08,pd 05/22/07 r		1.0	23	100	4A	d643	5/8/08	
						~~04/30/2008 15:00,s1, 05/07/2008~~		4A	d639	5/8/08	
03/30/2008 09:32		AmtRec: 20ML,3XLP,2X4LP	#Containers: 6					Scr:	Alpha: -2.07E-06 uCi/Sa		Beta: 3.24E-06 uCi/Sa
4 KKJJ1-1-AC J8D010253-1-SAMP		1000.30g,in	SRTB16101 04/17/08,pd 05/22/07 r		1.0	22.1	100	4B	d643	5/8/08	
						~~04/30/2008 15:00,s1, 05/07/2008~~		4B	d639	5/8/08	
03/30/2008 09:00		AmtRec: 20ML,3XLP,4LP	#Containers: 5					Scr:	Alpha: 4.75E-07 uCi/Sa		Beta: 5.18E-07 uCi/Sa

5/7/2008 4:44:04 PM

Sample Preparation/Analysis

Balance Id:1120482733,1120482733,1120

384868, Pacific Northwest National Laboratory .
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 05/16/2008

Sep1 DT/Tm Tech: 04/30/2008 15:00,ManisD

Batch: 8099411 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech: 05/07/2008 10:09,ManisD

SEQ Batch, Test: None

Prep Tech: HarrisD,McDowellD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
5 KKJKA-1-AA J8D010253-2-SAMP		219.90g,in	SRTB16102 04/17/08,pd 05/22/07 r		1.0	22.3	100	4C	0643	5/8/08	
						~~04/30/2008 15:00,s1, 05/07/2008~~		4C	0639	5/9/08	
03/28/2008 10:08		AmtRec: 20ML,3XLP	#Containers: 4					Scr:	Alpha: 8.85E-07 uCi/Sa	Beta: 2.40E-06 uCi/Sa	1.1E-01L
6 KKJKL-1-AA J8D010253-3-SAMP		200.00g,in	SRTB16103 04/17/08,pd 05/22/07 r		1.5	22.5	100	5A	0643	5/8/08	
						~~04/30/2008 15:00,s1, 05/07/2008~~		5A	0639	5/9/08	
03/28/2008 10:08		AmtRec: 20ML,3XLP	#Containers: 4					Scr:	Alpha: 5.10E-07 uCi/Sa	Beta: 2.64E-06 uCi/Sa	1.0E-01L
7 KKJK6-1-AA J8D010253-4-SAMP		1000.40g,in	SRTB16104 04/17/08,pd 05/22/07 r		1.5	21.5	100	5B	0643	5/8/08	
						~~04/30/2008 15:00,s1, 05/07/2008~~		5B	0639	5/9/08	
03/28/2008 11:05		AmtRec: 20ML,3XLP	#Containers: 4					Scr:	Alpha: 3.75E-07 uCi/Sa	Beta: 3.87E-07 uCi/Sa	
8 KKJLD-1-AC J8D010253-5-SAMP		1000.10g,in	SRTB16105 04/17/08,pd 05/22/07 r		1.5	21.2	100	5C	0643	5/8/08	
						~~04/30/2008 15:00,s1, 05/07/2008~~		5C	0639	5/9/08	
03/28/2008 12:14		AmtRec: 20ML,3XLP,4LP	#Containers: 5					Scr:	Alpha: 6.29E-07 uCi/Sa	Beta: 5.18E-07 uCi/Sa	

5/7/2008 4:44:05 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 05/16/2008

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

Balance Id:1120482733,1120482733,1120

Pipet #: _____

Sep1 DT/Tm Tech: 04/30/2008 15:00,ManisD

Sep2 DT/Tm Tech: 05/07/2008 10:09,ManisD

Prep Tech: ,McDowellD

Batch: 8099411 **WATER** **pCi/L** **PM, Quote: SS , 57671**
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
9 KKL1W-1-AC J8D020362-1-SAMP		1000.00g,in	SRTB16106 04/17/08,pd 05/22/07 r		1.5	22.5	100	5D	0643	5/8/08	
						~~04/30/2008 15:00,s1, 05/07/2008~~		5D	0639	5/9/08	
04/02/2008 11:28		AmtRec: VIAL20,3XLP,2X4LP	#Containers: 6					Scr:	Alpha: -2.34E-06 uCi/Sa		Beta: 2.63E-06 uCi/Sa
10 KKL1W-1-AD-X J8D020362-1-DUP		1000.10g,in	SRTB16107 04/17/08,pd 05/22/07 r		1.5	22.2	100	6A	0643	5/8/08	
						~~04/30/2008 15:00,s1, 05/07/2008~~		6A	0639	5/9/08	
04/02/2008 11:28		AmtRec: VIAL20,3XLP,2X4LP	#Containers: 6					Scr:	Alpha: -2.34E-06 uCi/Sa		Beta: 2.63E-06 uCi/Sa
11 KKL19-1-AC J8D020362-2-SAMP		1000.40g,in	SRTB16108 04/17/08,pd 05/22/07 r		1.5	22.1	100	6B	0643	5/8/08	
						~~04/30/2008 15:00,s1, 05/07/2008~~		6B	0639	5/9/08	
04/02/2008 11:28		AmtRec: VIAL20,3XLP,2X4LP	#Containers: 6					Scr:	Alpha: 6.41E-07 uCi/Sa		Beta: 1.91E-06 uCi/Sa
12 KKW36-1-AA-B J8D080000-411-BLK		1000.20g,in	SRTB16109 04/17/08,pd 05/22/07 r		1.5	20.8	100	6C	0643	5/8/08	
						~~04/30/2008 15:00,s1, 05/07/2008~~		6C	0639	5/9/08	
04/02/2008 11:28		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:

5/7/2008 4:44:05 PM

Sample Preparation/Analysis

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

Balance Id:1120482733,1120482733,1120

Pipet #: _____

AnalyDueDate: 05/16/2008

Sep1 DT/Tm Tech: 04/30/2008 15:00,ManisD

Batch: 8099411 pCi/L

Sep2 DT/Tm Tech: 05/07/2008 10:09,ManisD

SEQ Batch, Test: None

Prep Tech: ManisD,McDowellD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
~~13 KKW36-1-AC-C~~		1000.50g,in	SRSG1461								
J8D080000-411-LCS			02/26/08,pd 05/22/07,r								
							~~04/30/2008 15:00,s1, 05/07/2008~~				
04/02/2008 11:28		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:

Lost in lab DRM 5/7/08

Comments: KKJJ1-SAMP "Comments: isv for gamma dup. please recount on a different detector. DLH 5/7/08"
KKJKA-SAMP "Comments: aliquot reduced due to screening. DLH 4/24/08"
KKJKL-SAMP "Commentsaliquot reduced due to screening. DLH 4/24/08"
KKW36-~~BLK~~ "Comments Sr-LCS lost in lab drm 5/7/08"
LCS 5/7/08

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

KKJC71AC-SAMP Constituent List:

Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:70	UCL:130	RPD:20
KKW361AA-BLK:											
Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:	UCL:	RPD:
KKW361AC-LCS:											
Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:70	UCL:130	RPD:20

KKJC71AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KKW361AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KKW361AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

5/20/2008 1:00:21 PM

ICOC Fraction Transfer/Status Report

ByDate: 5/21/2007, 5/25/2008, Batch: '8099411', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8099411						
AC		**Rev1C**	**HarrisD**	4/24/2008 1:01:36 PM		
SC			wagarr	IsBatched	4/8/2008 3:12:43 PM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	4/24/2008 1:01:36 PM	RICH-RC-5014 Revision 7
SC			HarrisD	Prep1C	4/24/2008 1:22:00 PM	RICH-RC-5016 REVISION 7
SC			ManisD	Sep1C	4/30/2008 4:06:10 PM	RICH-RC-5006 REV 7
SC			DAWKINSO	InCnt1	4/30/2008 6:49:48 PM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	Cnt1C	4/30/2008 10:00:06 PM	RICH-RD-0007 REVISION 6
SC			ManisD	Sep2C	5/7/2008 4:46:04 PM	RICH-RC-5071 REV 5
SC			DAWKINSO	InCnt2	5/7/2008 5:36:55 PM	RICH-RD-0003 REVISION 5
SC			BlackCL	CalcC	5/9/2008 7:27:33 AM	RICH-RD-0003 REVISION 5
SC			nortonj	Rev1C	5/20/2008 1:00:11 PM	RICH-RC-0002 REV 8
AC			**HarrisD**	4/24/2008 1:22:00 PM		
AC			**ManisD**	4/30/2008 4:06:10 PM		
AC			**DAWKINSO**	4/30/2008 6:49:48 PM		
AC			**DAWKINSO**	4/30/2008 10:00:06		
AC			**ManisD**	5/7/2008 4:46:04 PM		
AC			**DAWKINSO**	5/7/2008 5:36:55 PM		
AC			**BlackCL**	5/9/2008 7:27:33 AM		
AC			**nortonj**	5/20/2008 1:00:11 PM		

AC: Accepting Entry; SC: Status Change

5/7/2008 1:06:31 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 05/16/2008 W05266

Sep1 DT/Tm Tech:

Batch: 8099412 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD | Back 8

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KKH55-1-AD J8D010209-1-SAMP 03/30/2008 10:50		1999.80g,in AmtRec: 20ML,LP,3X4LP #Containers: 5			100 mg	200	613	1825	5/14/08	Scr: Alpha: -8.14E-07 uCi/Sa Beta: -7.57E-07 uCi/Sa
2 KKJCH-1-AD J8D010209-2-SAMP 03/30/2008 08:00		2000.20g,in AmtRec: 20ML,LP,3X4LP #Containers: 5					6	1826		Scr: Alpha: 2.83E-07 uCi/Sa Beta: 2.46E-07 uCi/Sa
3 KKJD9-1-AA J8D010209-4-SAMP 03/30/2008 12:39		1999.90g,in AmtRec: 20ML,3XLP,3X4LP #Containers: 7					610	1826		Scr: Alpha: -6.35E-07 uCi/Sa Beta: 1.11E-06 uCi/Sa
4 KKJJ1-1-AA J8D010253-1-SAMP 03/30/2008 09:00		2000.00g,in AmtRec: 20ML,3XLP,4LP #Containers: 5					67	1827		Scr: Alpha: 4.75E-07 uCi/Sa Beta: 5.18E-07 uCi/Sa
5 KKJJ1-1-AD-X J8D010253-1-DUP 03/30/2008 09:00	See comments	AmtRec: 20ML,3XLP,4LP #Containers: 5					65	2002	5/14/08	Scr: Alpha: 4.75E-07 uCi/Sa Beta: 5.18E-07 uCi/Sa
6 KKJLD-1-AA J8D010253-5-SAMP 03/28/2008 12:14		2000.00g,in AmtRec: 20ML,3XLP,4LP #Containers: 5					614	1828	5/14/08	Scr: Alpha: 6.29E-07 uCi/Sa Beta: 5.18E-07 uCi/Sa
7 KKW38-1-AA-B J8D080000-412-BLK 03/30/2008 09:00		2000.20g,in AmtRec: #Containers: 1					611	1828		Scr: Alpha: Beta:

5/7/2008 1:06:33 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 05/16/2008

Sep1 DT/Tm Tech:

Batch: 8099412 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 KKW38-1-AC-C J8D080000-412-LCS 03/30/2008 09:00	AmtRec:	2000.20g,in	QCAG1469 04/23/08,pd 06/14/05,r #Containers: 1		100mls	200	65	18 29	5/14/08 RR	

Scr: Alpha: Beta:

Comments: KKJJ1-SAMP "Comments: isv for gamma dup. please recount on a different detector. DLH 5/7/08"

pH<2.0 RH 5/7/08

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

KKH551AD-SAMP Constituent List:

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

KKW381AA-BLK:

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

KKW381AC-LCS:

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

KKH551AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KKW381AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KKW381AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

5/7/2008 1:06:33 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #:

AnalyDueDate: 05/16/2008

Sep1 DT/Tm Tech:

Batch: 8099412 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD

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

Approved By _____ Date: _____

5/15/2008 4:15:00 PM

ICOC Fraction Transfer/Status Report

ByDate: 5/16/2007, 5/20/2008, Batch: '8099412', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8099412						
AC		Rev1C	HarrisD	5/7/2008 12:51:27 PM		
SC			wagarr	IsBatched	4/8/2008 3:12:43 PM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	5/7/2008 12:51:27 PM	RICH-RC-5014 Revision 7
SC			HarrisD	Prep1C	5/7/2008 1:06:34 PM	RICH-RC-5017 REVISION 6
SC			BockJ	InPrep2	5/12/2008 7:45:17 AM	RICH-RC-5017 REVISION 6
SC			BockJ	Prep2C	5/14/2008 3:01:02 PM	RICH-RC-5017 REVISION 6
SC			ClarkR	InCnt1	5/14/2008 3:04:02 PM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	Cnt1C	5/14/2008 8:12:12 PM	RICH-RD-0007 REVISION 6
SC			BlackCL	CalcC	5/15/2008 6:06:40 AM	RICH-RD-0007 REVISION 6
SC			antonsonl	Rev1C	5/15/2008 4:14:47 PM	RICH-RC-0002 REV 8
AC			HarrisD	5/7/2008 1:06:34 PM		
AC			BockJ	5/12/2008 7:45:17		
AC			BockJ	5/14/2008 3:01:02 PM		
AC			ClarkR	5/14/2008 3:04:02 PM		
AC			DAWKINSO	5/14/2008 8:12:12 PM		
AC			BlackCL	5/15/2008 6:06:40		
AC			antonsonl	5/15/2008 4:14:47 PM		

AC: Accepting Entry; SC: Status Change

4/23/2008 9:58:23 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 05/16/2008 W0536U6

Sep1 DT/Tm Tech:

Batch: 8099410 **WATER** **pCi/L** **PM, Quote: SS , 57671**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KKJEV-1-AA J8D010209-5-SAMP 03/30/2008 13:55		500.30g,in AmtRec: 20ML,3XLP,2X4LP	ITA7170 04/09/08 #Containers: 6		38.8	100	L4	2158 Scr: Alpha: -8.78E-07 uCi/Sa	5/13/08 DO Beta: 2.15E-06 uCi/Sa	
2 KKJEV-1-AD-X J8D010209-5-DUP 03/30/2008 13:55		500.00g,in AmtRec: 20ML,3XLP,2X4LP	ITA7077 03/26/08 #Containers: 6		39.4		L5	2158 Scr: Alpha: -8.78E-07 uCi/Sa	Beta: 2.15E-06 uCi/Sa	
3 KKW35-1-AA-B J8D080000-410-BLK 03/30/2008 13:55		500.30g,in AmtRec:	ITA7078 03/26/08 #Containers: 1		38.6		L2	2352 Scr: Alpha:	Beta:	
4 KKW35-1-AC-C J8D080000-410-LCS 03/30/2008 13:55		500.20g,in AmtRec:	ISB0273 02/07/08 #Containers: 1		38.9		L4	2353 Scr: Alpha:	Beta:	

Comments: DMT 4/23/08

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

KKJEV1AA-SAMP Constituent List:

I-129	RDL:5.00E+00	pCi/L	LCL:70	UCL:130	RPD:20

KKW351AA-BLK:

I-129	RDL:5.00E+00	pCi/L	LCL:	UCL:	RPD:

KKW351AC-LCS:

I-129	RDL:5	pCi/L	LCL:70	UCL:130	RPD:20

KKJEV1AA-SAMP Calc Info:

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 05/16/2008

Sep1 DT/Tm Tech:

Batch: 8099410 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD

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

```
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
KKW351AA-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
KKW351AC-LCS:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

5/15/2008 1:10:09 PM

ICOC Fraction Transfer/Status Report

ByDate: 5/16/2007, 5/20/2008, Batch: '8099410', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8099410						
AC		**Rev1C**	**HarrisD**	4/23/2008 9:54:15		
SC			wagarr	IsBatched	4/8/2008 3:12:43 PM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	4/23/2008 9:54:15 AM	RICH-RC-5017 Revision 6
SC			HarrisD	Prep1C	4/23/2008 9:58:26 AM	RICH-RC-5017 REVISION 6
SC			BostedD	InPrep2	4/28/2008 10:01:43 AM	RICHRC5025 REVISION 4
SC			BostedD	Prep2C	5/13/2008 7:08:39 PM	RICHRC5025 REVISION 4
SC			DAWKINSO	InCnt1	5/13/2008 7:21:54 PM	RICH-RD-0007 REVISION 6
SC			ClarkR	CalcC	5/14/2008 7:05:10 AM	RICH-RD-0007 REVISION 6
SC			nortonj	Rev1C	5/15/2008 1:10:05 PM	RICH-RC-0002 REV 8
AC			**HarrisD**	4/23/2008 9:58:26		
AC			**BostedD**	4/28/2008 10:01:43		
AC			**BostedD**	5/13/2008 7:08:39 PM		
AC			**DAWKINSO**	5/13/2008 7:21:54 PM		
AC			**ClarkR**	5/14/2008 7:05:10		
AC			**nortonj**	5/15/2008 1:10:05 PM		

AC: Accepting Entry; SC: Status Change

5/12/2008 3:15:51 PM

Sample Preparation/Analysis

Balance Id:112048273314 A

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 05/16/2008 WD53106

Sep1 DT/Tm Tech:

Batch: 8099403 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KKH55-1-AE J8D010209-1-SAMP 03/30/2008 10:50		3805.60g,in AmtRec: 20ML,LP,3X4LP #Containers: 5	ITA7147 04/09/08		43.4	100	L2	2046 Scr: Alpha: -8.14E-07 uCi/Sa	5/15/08	Beta: -7.57E-07 uCi/Sa
2 KKJCH-1-AE J8D010209-2-SAMP 03/30/2008 08:00		3894.20g,in AmtRec: 20ML,LP,3X4LP #Containers: 5	ITA7167 04/09/08		38.3		L4	2047 Scr: Alpha: 2.83E-07 uCi/Sa		Beta: 2.46E-07 uCi/Sa
3 KKJC7-1-AA J8D010209-3-SAMP 03/30/2008 11:05		3901.60g,in AmtRec: 20ML,3XLP,2X4LP #Containers: 6	ITA7168 04/09/08		36.0		L5	2048 Scr: Alpha: -8.88E-08 uCi/Sa		Beta: -1.56E-07 uCi/Sa
4 KKJD9-1-AC J8D010209-4-SAMP 03/30/2008 12:39		3892.10g,in AmtRec: 20ML,3XLP,3X4LP #Containers: 7	ITA7169 04/09/08		37.0		L2	2231 Scr: Alpha: -6.35E-07 uCi/Sa		Beta: 1.11E-06 uCi/Sa
5 KKJE3-1-AA J8D010209-6-SAMP 03/30/2008 09:32		3785.60g,in AmtRec: 20ML,3XLP,2X4LP #Containers: 6	ITA7171 05/01/08		33.6		L4	2232 Scr: Alpha: -2.07E-06 uCi/Sa		Beta: 3.24E-06 uCi/Sa
6 KKL0E-1-AA J8D020359-1-SAMP 04/02/2008 09:38		3899.20g,in AmtRec: VIAL20,2X4LP #Containers: 3	ITA7172 05/01/08		32.1		L5	2233 Scr: Alpha: 3.11E-07 uCi/Sa		Beta: 1.47E-06 uCi/Sa
7 KKL1W-1-AA J8D020362-1-SAMP 04/02/2008 11:28		3885.30g,in AmtRec: VIAL20,3XLP,2X4LP #Containers: 6	ITA7173 05/01/08		34.5		L2	2017 Scr: Alpha: -2.34E-06 uCi/Sa		Beta: 2.63E-06 uCi/Sa

5/12/2008 3:15:53 PM

Sample Preparation/Analysis

Balance Id:1120482733I4 A

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 05/16/2008

Sep1 DT/Tm Tech:

Batch: 8099403 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 KKL19-1-AA J8D020362-2-SAMP 04/02/2008 11:28		3868.60g,in AmtRec: VIAL20,3XLP,2X4LP #Containers: 6	ITA7174 05/01/08		34.2	100	L4	0017 Scr: Alpha: 6.41E-07 uCi/Sa	5/14 [illegible]	Beta: 1.91E-06 uCi/Sa
9 KKPRQ-1-AA J8D040135-1-SAMP 04/03/2008 11:02		3877.70g,in AmtRec: 20ML,2X4LP #Containers: 3	ITA7175 05/01/08		35.8		L5 Scr: Alpha: -1.60E-06 uCi/Sa			Beta: 1.21E-06 uCi/Sa
10 KKPRQ-1-AC-X J8D040135-1-DUP 04/03/2008 11:02		3874.80g,in AmtRec: 20ML,2X4LP #Containers: 3	ITA7176 05/01/08		34.6		L2 Scr: Alpha: -1.60E-06 uCi/Sa	0035	5/16/08	Beta: 1.21E-06 uCi/Sa
11 KKPTJ-1-AA J8D040135-2-SAMP 04/03/2008 11:54		3866.50g,in AmtRec: 20ML,2X4LP #Containers: 3	ITA7177 05/01/08		37.7		L4 Scr: Alpha: -1.32E-07 uCi/Sa	0036		Beta: -2.51E-08 uCi/Sa
12 KKPTR-1-AA J8D040135-3-SAMP 04/03/2008 10:02		3881.00g,in AmtRec: 20ML,2X4LP #Containers: 3	ITA7178 05/01/08		35.3		L5 Scr: Alpha: -7.68E-07 uCi/Sa	0036		Beta: 1.39E-06 uCi/Sa
13 KKW3Q-1-AA-B J8D080000-403-BLK 04/03/2008 11:02		3852.30g,in AmtRec: #Containers: 1	ITA7179 05/01/08		36.1		L2 Scr: Alpha:	0931 Alpha:	5/11/08	Beta:
14 KKW3Q-1-AC-C J8D080000-403-LCS 04/03/2008 11:02		3910.40g,in AmtRec: #Containers: 1	ISD0843 04/22/08		38.3		L4 Scr: Alpha:	0932		Beta:

5/12/2008 3:15:55 PM

Sample Preparation/Analysis

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

Balance Id:112048273314 A

Pipet #:

AnalyDueDate: 05/16/2008

Sep1 DT/Tm Tech:

Batch: 8099403 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD

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

Comments: DHS 5/12/08

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

KKH551AE-SAMP Constituent List:

I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
KKW3Q1AA-BLK:					
I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
KKW3Q1AC-LCS:					
I-129	RDL:5	pCi/L	LCL:70	UCL:130	RPD:20

KKH551AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KKW3Q1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KKW3Q1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

5/16/2008 1:03:35 PM

ICOC Fraction Transfer/Status Report

ByDate: 5/17/2007, 5/21/2008, Batch: '8099403', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8099403						
AC		**Rev1C**	**HarrisD**	5/12/2008 2:48:34 PM		
SC			wagarr	IsBatched	4/8/2008 3:12:43 PM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	5/12/2008 2:48:34 PM	RICH-RC-5016 Revision 7
SC			HarrisD	Prep1C	5/12/2008 3:15:55 PM	RICH-RC-5017 REVISION 6
SC			BostedD	InPrep2	5/13/2008 10:11:01 AM	RICHRC5025 REVISION 4
SC			BostedD	Prep2C	5/15/2008 7:04:14 PM	RICHRC5025 REVISION 4
SC			DAWKINSO	InCnt1	5/15/2008 7:08:59 PM	RICH-RD-0007 REVISION 6
SC			ClarkR	CalcC	5/16/2008 10:06:25 AM	RICH-RD-0007 REVISION 6
SC			nortonj	Rev1C	5/16/2008 1:03:29 PM	RICH-RC-0002 REV 8
AC			**HarrisD**	5/12/2008 3:15:55 PM		
AC			**BostedD**	5/13/2008 10:11:01		
AC			**BostedD**	5/15/2008 7:04:14 PM		
AC			**DAWKINSO**	5/15/2008 7:08:59 PM		
AC			**ClarkR**	5/16/2008 10:06:25		
AC			**nortonj**	5/16/2008 1:03:29 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.33

4/22/2008 11:09:00 AM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 05/16/2008

Sep1 DT/Tm Tech:

Batch: 8099417 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,Barcotl

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KKJEV-1-AC J8D010209-5-SAMP 03/30/2008 13:55		125.00g,in AmtRec: 20ML,3XLP,2X4LP	#Containers: 6	60		Scr:	Alpha: -8.78E-07 uCi/Sa	Beta: 2.15E-06 uCi/Sa
2 KKJEV-1-AE-S J8D010209-5-MS 03/30/2008 13:55		125.00g,in AmtRec: 20ML,3XLP,2X4LP	TCSG2024 04/11/08,pd #Containers: 6			Scr:	Alpha: -8.78E-07 uCi/Sa	Beta: 2.15E-06 uCi/Sa
3 KKJEV-1-AF-X J8D010209-5-DUP 03/30/2008 13:55		125.00g,in AmtRec: 20ML,3XLP,2X4LP	#Containers: 6			Scr:	Alpha: -8.78E-07 uCi/Sa	Beta: 2.15E-06 uCi/Sa
4 KKW4T-1-AA-B J8D080000-417-BLK 03/30/2008 13:55		125.01g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
5 KKW4T-1-AC-C J8D080000-417-LCS 03/30/2008 13:55		125.01g,in AmtRec:	TCSE2230 04/11/08,pd #Containers: 1			Scr:	Alpha:	Beta:
6 KKW4T-1-AD-BN J8D080000-417-IBLK 03/30/2008 13:55		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

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: 05/16/2008

Batch: 8099417 pCi/L
SEQ Batch, Test: None

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

Comments:

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

KKJEV1AC-SAMP Constituent List:
Tc-99 RDL:1.50E+01 pCi/L LCL:70 UCL:130 RPD:20
KKJEV1AE-MS Constituent List:

KKW4T1AA-BLK:
Tc-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:
KKW4T1AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
KKW4T1AD-IBLK:
Tc-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:

KKJEV1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KKJEV1AE-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KKW4T1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KKW4T1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KKW4T1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

5/13/2008 10:46:44 AM

ICOC Fraction Transfer/Status Report

ByDate: 5/14/2007, 5/18/2008, Batch: '8099417', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8099417						
AC		Rev1C	Barcotl	4/22/2008 11:10:48		
SC			wagarr	IsBatched	4/8/2008 3:12:43 PM	ICOC_RADCALC v4.8.32
SC			Barcotl	InPrep	4/22/2008 11:10:48 AM	RICH-RC-5016 REVISION 7
SC			Barcotl	Prep1C	4/22/2008 11:11:01 AM	RICH-RC-5016 REVISION 7
SC			AntonsonL	InPrep	5/8/2008 8:01:21 AM	richrc5078 rev 4
SC			DAWKINSO	InCnt1	5/8/2008 4:54:27 PM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	5/9/2008 7:15:35 AM	RICH-RD-0001 REVISION 4
SC			nortonj	Rev1C	5/13/2008 10:46:36 AM	RICH-RC-0002 REV 8
AC			Barcotl	4/22/2008 11:11:01		
AC			AntonsonL	5/8/2008 8:01:21 AM		
AC			DAWKINSO	5/8/2008 4:54:27 PM		
AC			BlackCL	5/9/2008 7:15:35 AM		
AC			nortonj	5/13/2008 10:46:36		

AC: Accepting Entry; SC: Status Change