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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: 38887

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05351	I08-022	B1T304	J8C050118-1	KH1661AA	9KH16610	8078363
		B1T302	J8C050118-2	KH1681AA	9KH16810	8078367
		B1T302	J8C050118-2	KH1681AC	9KH16810	8078362
		B1T302	J8C050118-2	KH1681AD	9KH16810	8078363
		B1T302	J8C050118-2	KH1681AE	9KH16810	8078366
		B1T302	J8C050118-2	KH1681AF	9KH16810	8078364
		B1T302	J8C050118-2	KH1681AG	9KH16810	8078369
	W08-002	B1T5W4	J8C050121-1	KH17D1AA	9KH17D10	8078360
		B1T5W4	J8C050121-1	KH17D1AC	9KH17D10	8078361
		B1T5W4	J8C050121-1	KH17D1AD	9KH17D10	8078362
	I08-020	B1T286	J8C050384-1	KH32V1AA	9KH32V10	8078372
	W08-002	B1T5F6	J8C050386-1	KH33F1AA	9KH33F10	8078360
		B1T5F6	J8C050386-1	KH33F1AC	9KH33F10	8078361
		B1T5F6	J8C050386-1	KH33F1AD	9KH33F10	8078362
		B1T5F7	J8C050386-2	KH3351AA	9KH33510	8078360

Comments:

Report Nbr: 38887

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05351	W08-002	B1T5F7	J8C050386-2	KH3351AC	9KH33510	8078361
		B1T5F7	J8C050386-2	KH3351AD	9KH33510	8078362
	I08-023	B1T3L0	J8C050388-1	KH34N1AA	9KH34N10	8078363
	I08-022	B1T329	J8C050389-1	KH35E1AA	9KH35E10	8078363
		B1T319	J8C050389-2	KH35G1AA	9KH35G10	8078363
		B1T330	J8C050389-3	KH35H1AA	9KH35H10	8078363
		B1T326	J8C050389-4	KH35J1AA	9KH35J10	8078363
		B1T324	J8C050389-5	KH35K1AA	9KH35K10	8078363
	W08-002	B1T653	J8C060304-1	KH50F1AA	9KH50F10	8078370
	S08-002	B1T411	J8C060372-1	KH6EA1AA	9KH6EA10	8078362
		B1T411	J8C060372-1	KH6EA1AC	9KH6EA10	8078363
		B1T411	J8C060372-1	KH6EA1AD	9KH6EA10	8078364
		B1T412	J8C060372-2	KH6EX1AA	9KH6EX10	8078362
		B1T412	J8C060372-2	KH6EX1AC	9KH6EX10	8078363
		B1T412	J8C060372-2	KH6EX1AD	9KH6EX10	8078364
	I08-020	B1T255	J8C100135-1	KH9XF1AA	9KH9XF10	8070255
	S08-012	B1RCV2	J8C100139-1	KH90D1AA	9KH90D10	8078360
		B1RCV2	J8C100139-1	KH90D1AC	9KH90D10	8078361
		B1RCV2	J8C100139-1	KH90D1AD	9KH90D10	8078365
	S08-001	B1RTN3	J8C100141-1	KH90N1AA	9KH90N10	8078360
		B1RTN3	J8C100141-1	KH90N1AC	9KH90N10	8078361
		B1RTN3	J8C100141-1	KH90N1AD	9KH90N10	8078362
		B1RTN3	J8C100141-1	KH90N1AE	9KH90N10	8078363
		B1RTN3	J8C100141-1	KH90N1AF	9KH90N10	8078364
		B1RTN2	J8C100141-2	KH90P1AA	9KH90P10	8078360
		B1RTN2	J8C100141-2	KH90P1AC	9KH90P10	8078361

Comments:

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SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05351	S08-001	B1RTN2	J8C100141-2	KH90P1AD	9KH90P10	8078362
		B1RTN2	J8C100141-2	KH90P1AE	9KH90P10	8078363
		B1RTN2	J8C100141-2	KH90P1AF	9KH90P10	8078364
	I08-026	B1TJC4	J8C110314-1	KJD2M1AA	9KJD2M10	8078373

Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

April 30, 2008

Attention: Steve Trent

SAF Number	:	I08-022, W08-002, I08-020, I08-023, S08-002, S08-012, S08-001, I08-026
Date SDG Closed	:	March 11, 2008
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05351
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between March 4, 2008 and March 11, 2008 twenty water samples were received at TestAmerica 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
B1T304	KH166	3/04/08	WATER
B1T302	KH168	3/04/08	WATER
B1T5W4	KH17D	3/04/08	WATER
B1T286	KH32V	3/05/08	WATER
B1T5F6	KH33F	3/05/08	WATER
B1T5F7	KH335	3/05/08	WATER
B1T3L0	KH34N	3/05/08	WATER
B1T329	KH35E	3/05/08	WATER
B1T319	KH35G	3/05/08	WATER
B1T330	KH35H	3/05/08	WATER
B1T326	KH35J	3/05/08	WATER
B1T324	KH35K	3/05/08	WATER
B1T653	KH50F	3/06/08	WATER

B1T411	KH6EA	3/06/08	WATER
B1T412	KH6EX	3/06/08	WATER
B1T255	KH9XF	3/07/08	WATER
B1RCV2	KH90D	3/07/08	WATER
B1RTN3	KH90N	3/07/08	WATER
B1RTN2	KH90P	3/07/08	WATER
B1TJC4	KJD2M	3/11/08	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:

Alpha Spectroscopy
Uranium 234, 235 and 238 by method RICH-RC-5039
Gas Proportional Counting
Gross Alpha by method RICH-RC-5014
Gross Beta by method RICH-RC-5014
Strontium-90 by method RICH-RC-5006
Gamma Spectroscopy
Gamma Spec (LL) by method RICH-RC-5017
Iodine-129 (LL) by method RICH-RC-5025
Liquid Scintillation Counting
Selenium-79 by method RICH-RC-5043
Technetium-99 by TEVA method RICH-RC-5065
Carbon-14 by method RICH-RC-5022
Chemical Analysis
Hexavalent Chromium by EPA method 7196A
Total Coliform by method 9223

IV. Quality Control

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

QC and sample results are reported in the same units.

V. Comments

Alpha Spectroscopy

Uranium 234, 235 and 238 by method RICH-RC-5039:
The LCS, batch blank, sample and sample duplicate (B1T302) results are within contractual requirements.

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:
Samples B1T5F7 and B1T5F6 were analyzed with reduced aliquots based on weight screens. Sample B1T5F6 does not meet the CRDL. The result exceeds the achieved MDA. Except as noted, the LCS, batch blank, samples and sample duplicate (B1RTN3) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:
The LCS, batch blank, samples and sample duplicate (B1T5F6) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006
The LCS, batch blank, samples and sample duplicate (B1T411) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec (LL) by method RICH-RC-5017:
There was insufficient volume for a duplicate. Sample B1T5W4 was recounted on a different detector for the duplicate B1T5W4 DUP. Except as noted, the LCS, batch blank, samples and sample duplicate (B1T5W4) results are within contractual requirements.

Iodine-129 (LL) by method RICH-RC-5025:
The LCS, batch blank, samples and sample duplicate (B1T3L0) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by TEVA method RICH-RC-5065:
The LCS, batch blank, samples, sample duplicate (B1RCV2), and sample matrix spike (B1RCV2) results are within contractual requirements.

Selenium-79 by method RICH-RC-5043:
There is no LCS for selenium-79. The tracer yield failed on the duplicate. TestAmerica Richland proposed to report W05351 without a Se-79 duplicate result. The client accepted the proposed resolution (Tracking Number: 08-047) on April 29, 2008.The batch blank and samples results are within contractual requirements.

Carbon-14 by method RICH-RC-5022:
The LCS, batch blank, samples and sample duplicate (B1T302) results are within contractual requirements.

Chemical Analysis
Total Coliform by method 9223
The LCS, batch blank, samples and sample duplicate (B1T653) results are within contractual requirements.

Hexavalent Chromium by EPA method 7196A

Batch 8078372:
The LCS, batch blank, samples, sample duplicate (B1T286), sample matrix spike (B1T286), and matrix spike duplicate (B1T286) results are within contractual requirements.

Batch 8070255:
The LCS, batch blank, samples, sample duplicate (B1T255), sample matrix spike (B1T255), and matrix spike duplicate (B1T255) results are within contractual requirements.

Batch 8078373:
The LCS, batch blank, samples, sample duplicate (B1TJC4), sample matrix spike (B1TJC4), and matrix spike duplicate (B1TJC4) 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: 08-047
SAF No.: I08-022
Date: April 24, 2008
SDG: W05351
Sample No.(s) B1T302
Submitted By: Jodie Carnes

Phone No. 509-375-3131 x112
Fax No. 509-375-5590

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

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

ISSUE	**PROPOSED RESOLUTION**
The selenium-79 duplicate tracer yield was outside acceptance limits. Suspect an error during preparation. All other sample and QC tracer yields are acceptable.	Report W05351 without the selenium-79 sample duplicate.

BHI/FH COMMENTS -
Accept proposed resolution.

Heidi Hampt 4/29/08
Signature and date

Seger, Sandra

From: Hampt, Heidi [Heidi_Hampt@RL.gov]
Sent: Tuesday, April 29, 2008 2:12 PM
To: Seger, Sandra
Cc: Trent, Stephen J; Anastos, Heather L
Subject: RE: IRF for W05351
Attachments: 08-047.DOC

Sandra,

Response is attached.

Thanks,
Heidi

From: Seger, Sandra [mailto:Sandra.Seger@testamericainc.com]
Sent: Tuesday, April 29, 2008 1:31 PM
To: Hampt, Heidi
Cc: Trent, Stephen J; Anastos, Heather L
Subject: RE: IRF for W05351

Heidi,

We would like to be able to report this SDG tomorrow. Have you heard anything on this?

Thanks,
Sandra

From: Hampt, Heidi [mailto:Heidi_Hampt@RL.gov]
Sent: Friday, April 25, 2008 2:53 PM
To: Carnes, Jodie
Cc: Trent, Stephen J; Anastos, Heather L; Seger, Sandra
Subject: FW: IRF for W05351

Jodie,

We need to check with the scientist whose data is impacted. She is not in today. We'll get back to you on Monday.

Thanks,
Heidi

From: Trent, Stephen J
Sent: Friday, April 25, 2008 7:59 AM
To: Hampt, Heidi; Anastos, Heather L
Subject: FW: IRF for W05351

Heather and/or Heidi,

Can you look at this?

Steve

From: Carnes, Jodie [mailto:Jodie.Carnes@testamericainc.com]
Sent: Thursday, April 24, 2008 5:15 PM
To: Trent, Stephen J
Subject: IRF for W05351

Hi Steve,

Sorry that the first thing I email you is an IRF. <<IRFW05351.DOC>>

JODIE CARNES
Laboratory Director

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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Richland, WA 99354
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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.

4/30/2008 11:15:03 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 38887 File Name: h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.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:
9KH16610	B1T304		MW6-SBB-A1	I08-022	W05351					03/03/2008 14:55

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8078363	I-129L	15046-84-1	1.50E+00	pCi/L	3.7E-01	3.7E-01	U	5.94E-01	104.3	I129LL_SEP_LEPS	3.836E+00	L	04/15/2008 13:39	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:
9KH16810	B1T302		MW6-SBB-A1	I08-022	W05351					03/03/2008 13:59

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8078367	C-14	14762-75-5	-1.79E+00	pCi/L	3.5E+00	4.2E+00	U	8.54E+00	100.0	C14_LSC	2.00E-01	L	03/21/2008 05:44	I
8078362	BE-7	13966-02-4	-1.79E+01	pCi/L	2.1E+01	2.1E+01	U	3.38E+01		GAMMALL_GS	2.0002E+00	L	04/17/2008 11:08	I
8078362	CO-60	10198-40-0	-1.73E-01	pCi/L	1.8E+00	1.8E+00	U	3.35E+00		GAMMALL_GS	2.0002E+00	L	04/17/2008 11:08	I
8078362	CS-134	13967-70-9	-6.45E-01	pCi/L	1.8E+00	1.8E+00	U	3.10E+00		GAMMALL_GS	2.0002E+00	L	04/17/2008 11:08	I
8078362	CS-137	10045-97-3	-1.58E+00	pCi/L	1.8E+00	1.8E+00	U	2.79E+00		GAMMALL_GS	2.0002E+00	L	04/17/2008 11:08	I
8078362	EU-154	15585-10-1	3.85E+00	pCi/L	4.9E+00	4.9E+00	U	9.90E+00		GAMMALL_GS	2.0002E+00	L	04/17/2008 11:08	I
8078362	EU-155	14391-16-3	-3.65E-01	pCi/L	3.1E+00	3.1E+00	U	5.35E+00		GAMMALL_GS	2.0002E+00	L	04/17/2008 11:08	I
8078362	K-40	13966-00-2	2.24E+00	pCi/L	4.4E+01	4.4E+01	U	9.13E+01		GAMMALL_GS	2.0002E+00	L	04/17/2008 11:08	I
8078362	RU-106	13967-48-1	-1.89E+00	pCi/L	1.7E+01	1.7E+01	U	3.04E+01		GAMMALL_GS	2.0002E+00	L	04/17/2008 11:08	I
8078362	SB-125	14234-35-6	-2.18E+00	pCi/L	4.6E+00	4.6E+00	U	7.71E+00		GAMMALL_GS	2.0002E+00	L	04/17/2008 11:08	I
8078363	I-129L	15046-84-1	2.72E-01	pCi/L	2.0E-01	2.0E-01	U	3.47E-01	103.0	I129LL_SEP_LEPS	3.8902E+00	L	04/15/2008 13:40	I
8078366	Se-79	15758-45-9	3.60E+00	pCi/L	4.4E+00	8.5E+00	U	1.04E+01	84.4	SE79_SEP_IE_LS	2.0001E-01	L	04/10/2008 04:06	I
8078364	SR-90	10098-97-2	2.32E-01	pCi/L	3.4E-01	3.4E-01	U	6.80E-01	75.3	SRISO_SEP_PRE	1.00E+00	L	04/18/2008 07:07	I
8078369	U-234	13966-29-5	8.23E-01	pCi/L	3.1E-01	3.4E-01		1.42E-01	99.7	UISO_PLATE_AEA	2.0001E-01	L	04/17/2008 23:59	I
8078369	U-235	15117-96-1	0.00E+00	pCi/L	6.0E-02	6.0E-02	U	1.42E-01	99.7	UISO_PLATE_AEA	2.0001E-01	L	04/17/2008 23:59	I
8078369	U-238	U-238	2.78E-01	pCi/L	1.9E-01	1.9E-01		1.87E-01	99.7	UISO_PLATE_AEA	2.0001E-01	L	04/17/2008 23:59	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KH17D10	B1T5W4		MW6-SBB-A1	W08-002	W05351					03/03/2008 12:23

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8078360	ALPHA	12587-46-1	2.32E+00	pCi/L	1.3E+00	1.4E+00		1.30E+00	100.0	9310_ALPHABETA	2.004E-01	L	04/16/2008 13:47	I
8078361	BETA	12587-47-2	2.21E+02	pCi/L	6.9E+00	3.0E+01		2.93E+00	100.0	9310_ALPHABETA	2.001E-01	L	04/16/2008 14:08	I
8078362	BE-7	13966-02-4	-2.21E+00	pCi/L	2.1E+01	2.1E+01	U	3.61E+01		GAMMALL_GS	2.0001E+00	L	04/17/2008 11:09	I
8078362	CO-60	10198-40-0	-9.93E-01	pCi/L	1.2E+00	1.2E+00	U	1.98E+00		GAMMALL_GS	2.0001E+00	L	04/17/2008 11:09	I
8078362	CS-134	13967-70-9	2.32E-01	pCi/L	2.0E+00	2.0E+00	U	3.56E+00		GAMMALL_GS	2.0001E+00	L	04/17/2008 11:09	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.

8078362	CS-137	10045-97-3	-6.81E-01	pCi/L	1.4E+00	1.4E+00	U	2.45E+00	GAMMALL_GS	2.0001E+00	L	04/17/2008	11:09	I
8078362	EU-154	15585-10-1	-2.85E+00	pCi/L	4.9E+00	4.9E+00	U	8.16E+00	GAMMALL_GS	2.0001E+00	L	04/17/2008	11:09	I
8078362	EU-155	14391-16-3	2.49E+00	pCi/L	3.5E+00	3.5E+00	U	6.13E+00	GAMMALL_GS	2.0001E+00	L	04/17/2008	11:09	I
8078362	K-40	13966-00-2	-2.87E+01	pCi/L	3.7E+01	3.7E+01	U	7.26E+01	GAMMALL_GS	2.0001E+00	L	04/17/2008	11:09	I
8078362	RU-106	13967-48-1	4.22E+00	pCi/L	1.5E+01	1.5E+01	U	2.77E+01	GAMMALL_GS	2.0001E+00	L	04/17/2008	11:09	I
8078362	SB-125	14234-35-6	-6.76E-01	pCi/L	4.2E+00	4.2E+00	U	7.27E+00	GAMMALL_GS	2.0001E+00	L	04/17/2008	11:09	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:
9KH33510	B1T5F7		MW6-SBB-A1	W08-002	W05351					03/05/2008 10:05

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8078360	ALPHA	12587-46-1	5.15E+02	pCi/L	1.7E+01	1.1E+02		2.96E+00	100.0	9310_ALPHABETA	6.57E-02	L	04/16/2008 15:02	I
8078361	BETA	12587-47-2	1.81E+03	pCi/L	2.1E+01	2.3E+02		3.06E+00	100.0	9310_ALPHABETA	2.002E-01	L	04/16/2008 14:08	I
8078362	BE-7	13966-02-4	-3.66E+00	pCi/L	3.0E+01	3.0E+01	U	5.14E+01		GAMMALL_GS	2.0004E+00	L	04/17/2008 11:11	I
8078362	CO-60	10198-40-0	1.28E+01	pCi/L	4.1E+00	4.1E+00	U	8.15E+00		GAMMALL_GS	2.0004E+00	L	04/17/2008 11:11	I
8078362	CS-134	13967-70-9	1.57E+00	pCi/L	2.6E+00	2.6E+00	U	4.79E+00		GAMMALL_GS	2.0004E+00	L	04/17/2008 11:11	I
8078362	CS-137	10045-97-3	6.41E-02	pCi/L	2.2E+00	2.2E+00	U	3.92E+00		GAMMALL_GS	2.0004E+00	L	04/17/2008 11:11	I
8078362	EU-154	15585-10-1	1.81E+00	pCi/L	6.6E+00	6.6E+00	U	1.22E+01		GAMMALL_GS	2.0004E+00	L	04/17/2008 11:11	I
8078362	EU-155	14391-16-3	-6.01E+00	pCi/L	4.9E+00	4.9E+00	U	7.65E+00		GAMMALL_GS	2.0004E+00	L	04/17/2008 11:11	I
8078362	K-40	13966-00-2	-1.65E+01	pCi/L	5.1E+01	5.1E+01	U	1.06E+02		GAMMALL_GS	2.0004E+00	L	04/17/2008 11:11	I
8078362	RU-106	13967-48-1	-1.03E+00	pCi/L	2.0E+01	2.0E+01	U	3.59E+01		GAMMALL_GS	2.0004E+00	L	04/17/2008 11:11	I
8078362	SB-125	14234-35-6	2.54E+00	pCi/L	5.2E+00	5.2E+00	U	9.42E+00		GAMMALL_GS	2.0004E+00	L	04/17/2008 11:11	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KH33F10	B1T5F6		MW6-SBB-A1	W08-002	W05351					03/05/2008 10:05

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8078360	ALPHA	12587-46-1	6.26E+02	pCi/L	2.5E+01	1.3E+02		4.39E+00	100.0	9310_ALPHABETA	7.82E-02	L	04/16/2008 14:12	I
8078361	BETA	12587-47-2	1.93E+03	pCi/L	2.2E+01	2.5E+02		3.09E+00	100.0	9310_ALPHABETA	2.00E-01	L	04/16/2008 14:08	I
8078362	BE-7	13966-02-4	-5.07E+00	pCi/L	1.2E+01	1.2E+01	U	2.15E+01		GAMMALL_GS	2.0002E+00	L	04/17/2008 11:10	I
8078362	CO-60	10198-40-0	1.37E+01	pCi/L	3.4E+00	3.4E+00		2.22E+00		GAMMALL_GS	2.0002E+00	L	04/17/2008 11:10	I
8078362	CS-134	13967-70-9	1.01E-01	pCi/L	1.1E+00	1.1E+00	U	2.05E+00		GAMMALL_GS	2.0002E+00	L	04/17/2008 11:10	I
8078362	CS-137	10045-97-3	1.33E+00	pCi/L	1.3E+00	1.3E+00	U	2.44E+00		GAMMALL_GS	2.0002E+00	L	04/17/2008 11:10	I
8078362	EU-154	15585-10-1	-1.33E-01	pCi/L	3.6E+00	3.6E+00	U	6.50E+00		GAMMALL_GS	2.0002E+00	L	04/17/2008 11:10	I
8078362	EU-155	14391-16-3	1.65E+00	pCi/L	2.8E+00	2.8E+00	U	5.15E+00		GAMMALL_GS	2.0002E+00	L	04/17/2008 11:10	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.

8078362	K-40	13966-00-2	-4.43E+00	pCi/L	2.4E+01	2.4E+01	U	4.97E+01		GAMMALL_GS	2.0002E+00	L	04/17/2008	11:10	I
8078362	RU-106	13967-48-1	-7.02E+00	pCi/L	1.0E+01	1.0E+01	U	1.70E+01		GAMMALL_GS	2.0002E+00	L	04/17/2008	11:10	I
8078362	SB-125	14234-35-6	3.68E+00	pCi/L	2.7E+00	2.7E+00	U	5.34E+00		GAMMALL_GS	2.0002E+00	L	04/17/2008	11:10	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:
9KH34N10	B1T3L0		MW6-SBB-A1	I08-023	W05351					03/04/2008 10:50

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8078363	I-129L	15046-84-1	-5.32E-02	pCi/L	1.2E-01	1.2E-01	U	2.04E-01	101.9	I129LL_SEP_LEPS	3.8738E+00	L	04/15/2008 13:41	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:
9KH35E10	B1T329		MW6-SBB-A1	I08-022	W05351					03/04/2008 11:03

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8078363	I-129L	15046-84-1	2.19E+00	pCi/L	4.4E-01	4.4E-01		2.68E-01	106.5	I129LL_SEP_LEPS	3.823E+00	L	04/15/2008 15:30	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KH35G10	B1T319		MW6-SBB-A1	I08-022	W05351					03/04/2008 11:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8078363	I-129L	15046-84-1	1.10E+00	pCi/L	4.1E-01	4.1E-01	U	5.02E-01	100.8	I129LL_SEP_LEPS	3.8457E+00	L	04/15/2008 15:31	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KH35H10	B1T330		MW6-SBB-A1	I08-022	W05351					03/04/2008 08:25

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8078363	I-129L	15046-84-1	-1.76E-03	pCi/L	1.5E-01	1.5E-01	U	2.63E-01	99.5	I129LL_SEP_LEPS	3.9155E+00	L	04/15/2008 17:19	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:
9KH35J10	B1T326		MW6-SBB-A1	I08-022	W05351					03/04/2008 12:01

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8078363	I-129L	15046-84-1	1.18E+00	pCi/L	2.9E-01	2.9E-01	U	5.52E-01	97.6	I129LL_SEP_LEPS	3.8792E+00	L	04/15/2008 17:19	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:
9KH35K10	B1T324		MW6-SBB-A1	I08-022	W05351					03/04/2008 09:31

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8078363	I-129L	15046-84-1	9.33E-01	pCi/L	3.0E-01	3.0E-01	U	5.15E-01	100.3	I129LL_SEP_LEPS	3.886E+00	L	04/15/2008 17:20	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.

4/30/2008 11:15:04 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 38887 File Name: h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.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:
9KH6EA10	B1T411		MW6-SBB-A1	S08-002	W05351					03/06/2008 09:33

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8078362	BE-7	13966-02-4	1.11E+01	pCi/L	1.9E+01	1.9E+01	U	3.50E+01		GAMMALL_GS	2.0004E+00	L	04/17/2008 11:11	I
8078362	CO-60	10198-40-0	-3.53E-01	pCi/L	1.6E+00	1.6E+00	U	2.96E+00		GAMMALL_GS	2.0004E+00	L	04/17/2008 11:11	I
8078362	CS-134	13967-70-9	-1.75E-01	pCi/L	1.8E+00	1.8E+00	U	3.19E+00		GAMMALL_GS	2.0004E+00	L	04/17/2008 11:11	I
8078362	CS-137	10045-97-3	-1.50E+00	pCi/L	1.7E+00	1.7E+00	U	2.73E+00		GAMMALL_GS	2.0004E+00	L	04/17/2008 11:11	I
8078362	EU-154	15585-10-1	4.57E-01	pCi/L	4.4E+00	4.4E+00	U	8.54E+00		GAMMALL_GS	2.0004E+00	L	04/17/2008 11:11	I
8078362	EU-155	14391-16-3	4.95E-01	pCi/L	3.2E+00	3.2E+00	U	5.73E+00		GAMMALL_GS	2.0004E+00	L	04/17/2008 11:11	I
8078362	K-40	13966-00-2	4.18E+00	pCi/L	4.0E+01	4.0E+01	U	3.67E+01		GAMMALL_GS	2.0004E+00	L	04/17/2008 11:11	I
8078362	RU-106	13967-48-1	-8.23E+00	pCi/L	1.6E+01	1.6E+01	U	2.64E+01		GAMMALL_GS	2.0004E+00	L	04/17/2008 11:11	I
8078362	SB-125	14234-35-6	-5.02E+00	pCi/L	4.5E+00	4.5E+00	U	7.09E+00		GAMMALL_GS	2.0004E+00	L	04/17/2008 11:11	I
8078363	I-129L	15046-84-1	1.46E+00	pCi/L	4.0E-01	4.0E-01	U	6.20E-01	98.4	I129LL_SEP_LEPS	3.8786E+00	L	04/15/2008 20:49	I
8078364	SR-90	10098-97-2	3.36E-01	pCi/L	3.2E-01	3.3E-01	U	6.69E-01	77.0	SRISO_SEP_PRE	1.00E+00	L	04/18/2008 07:07	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:
9KH6EX10	B1T412		MW6-SBB-A1	S08-002	W05351					03/06/2008 07:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8078362	BE-7	13966-02-4	-6.92E+00	pCi/L	1.7E+01	1.7E+01	U	2.79E+01		GAMMALL_GS	1.9998E+00	L	04/17/2008 11:12	I
8078362	CO-60	10198-40-0	-1.39E-01	pCi/L	1.3E+00	1.3E+00	U	2.41E+00		GAMMALL_GS	1.9998E+00	L	04/17/2008 11:12	I
8078362	CS-134	13967-70-9	4.72E-01	pCi/L	1.3E+00	1.3E+00	U	2.42E+00		GAMMALL_GS	1.9998E+00	L	04/17/2008 11:12	I
8078362	CS-137	10045-97-3	2.56E-01	pCi/L	1.2E+00	1.2E+00	U	2.24E+00		GAMMALL_GS	1.9998E+00	L	04/17/2008 11:12	I
8078362	EU-154	15585-10-1	-3.19E-01	pCi/L	3.5E+00	3.5E+00	U	6.37E+00		GAMMALL_GS	1.9998E+00	L	04/17/2008 11:12	I
8078362	EU-155	14391-16-3	4.32E-01	pCi/L	2.9E+00	2.9E+00	U	5.13E+00		GAMMALL_GS	1.9998E+00	L	04/17/2008 11:12	I
8078362	K-40	13966-00-2	-1.77E+01	pCi/L	1.9E+01	1.9E+01	U	3.47E+01		GAMMALL_GS	1.9998E+00	L	04/17/2008 11:12	I
8078362	RU-106	13967-48-1	1.02E+01	pCi/L	1.3E+01	1.3E+01	U	2.47E+01		GAMMALL_GS	1.9998E+00	L	04/17/2008 11:12	I
8078362	SB-125	14234-35-6	1.07E+00	pCi/L	3.1E+00	3.1E+00	U	5.61E+00		GAMMALL_GS	1.9998E+00	L	04/17/2008 11:12	I
8078363	I-129L	15046-84-1	-9.97E-02	pCi/L	1.5E-01	1.5E-01	U	2.53E-01	100.8	I129LL_SEP_LEPS	3.8618E+00	L	04/15/2008 20:49	I
8078364	SR-90	10098-97-2	3.76E-01	pCi/L	2.8E-01	3.0E-01	U	5.84E-01	78.1	SRISO_SEP_PRE	1.00E+00	L	04/18/2008 07:07	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:
9KH90D10	B1RCV2		MW6-SBB-A1	S08-012	W05351					03/07/2008 10:02

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

4/30/2008 11:15:04 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 38887 File Name: h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8078360	ALPHA	12587-46-1	2.72E+00	pCi/L	1.4E+00	1.5E+00		1.54E+00	100.0	9310_ALPHABETA	2.00E-01	L	04/16/2008 13:47	I
8078361	BETA	12587-47-2	1.27E+01	pCi/L	2.0E+00	2.6E+00		2.71E+00	100.0	9310_ALPHABETA	2.003E-01	L	04/16/2008 14:08	I
8078365	TC-99	14133-76-7	4.81E+00	pCi/L	4.0E+00	5.7E+00	U	9.29E+00	100.0	TC99_ETVDSK_LS	1.2502E-01	L	04/15/2008 20:15	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:
9KH90N10	B1RTN3		MW6-SBB-A1	S08-001	W05351					03/07/2008 08:05

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8078360	ALPHA	12587-46-1	4.69E-01	pCi/L	4.9E-01	5.0E-01	U	7.99E-01	100.0	9310_ALPHABETA	2.00E-01	L	04/16/2008 13:47	I
8078361	BETA	12587-47-2	1.53E+00	pCi/L	1.3E+00	1.3E+00	U	2.54E+00	100.0	9310_ALPHABETA	2.00E-01	L	04/16/2008 14:08	I
8078362	BE-7	13966-02-4	2.92E+00	pCi/L	2.0E+01	2.0E+01	U	3.50E+01		GAMMALL_GS	2.00E+00	L	04/17/2008 11:13	I
8078362	CO-60	10198-40-0	5.99E-01	pCi/L	1.8E+00	1.8E+00	U	3.32E+00		GAMMALL_GS	2.00E+00	L	04/17/2008 11:13	I
8078362	CS-134	13967-70-9	-6.80E-01	pCi/L	1.7E+00	1.7E+00	U	2.95E+00		GAMMALL_GS	2.00E+00	L	04/17/2008 11:13	I
8078362	CS-137	10045-97-3	4.41E-01	pCi/L	1.6E+00	1.6E+00	U	2.81E+00		GAMMALL_GS	2.00E+00	L	04/17/2008 11:13	I
8078362	EU-154	15585-10-1	1.65E+00	pCi/L	4.7E+00	4.7E+00	U	8.87E+00		GAMMALL_GS	2.00E+00	L	04/17/2008 11:13	I
8078362	EU-155	14391-16-3	-1.71E+00	pCi/L	4.1E+00	4.1E+00	U	6.77E+00		GAMMALL_GS	2.00E+00	L	04/17/2008 11:13	I
8078362	K-40	13966-00-2	-1.05E+02	pCi/L	4.9E+01	4.9E+01	U	9.35E+01		GAMMALL_GS	2.00E+00	L	04/17/2008 11:13	I
8078362	RU-106	13967-48-1	1.16E+01	pCi/L	1.4E+01	1.4E+01	U	2.52E+01		GAMMALL_GS	2.00E+00	L	04/17/2008 11:13	I
8078362	SB-125	14234-35-6	-3.93E+00	pCi/L	4.1E+00	4.1E+00	U	6.64E+00		GAMMALL_GS	2.00E+00	L	04/17/2008 11:13	I
8078363	I-129L	15046-84-1	-1.23E-03	pCi/L	1.2E-01	1.2E-01	U	2.28E-01	99.7	I129LL_SEP_LEPS	3.8643E+00	L	04/15/2008 20:50	I
8078364	SR-90	10098-97-2	3.91E-01	pCi/L	3.1E-01	3.3E-01	U	6.47E-01	75.9	SRISO_SEP_PRE	1.00E+00	L	04/18/2008 07:07	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:
9KH90P10	B1RTN2		MW6-SBB-A1	S08-001	W05351					03/07/2008 11:47

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8078360	ALPHA	12587-46-1	4.24E-01	pCi/L	5.4E-01	5.4E-01	U	9.11E-01	100.0	9310_ALPHABETA	2.002E-01	L	04/16/2008 13:47	I
8078361	BETA	12587-47-2	4.20E+00	pCi/L	1.5E+00	1.6E+00		2.65E+00	100.0	9310_ALPHABETA	2.002E-01	L	04/16/2008 14:08	I
8078362	BE-7	13966-02-4	-9.92E+00	pCi/L	1.9E+01	1.9E+01	U	3.29E+01		GAMMALL_GS	2.0002E+00	L	04/17/2008 11:13	I
8078362	CO-60	10198-40-0	9.08E-01	pCi/L	1.7E+00	1.7E+00	U	3.46E+00		GAMMALL_GS	2.0002E+00	L	04/17/2008 11:13	I
8078362	CS-134	13967-70-9	1.41E-01	pCi/L	2.0E+00	2.0E+00	U	3.54E+00		GAMMALL_GS	2.0002E+00	L	04/17/2008 11:13	I
8078362	CS-137	10045-97-3	-1.06E-01	pCi/L	1.6E+00	1.6E+00	U	2.81E+00		GAMMALL_GS	2.0002E+00	L	04/17/2008 11:13	I
8078362	EU-154	15585-10-1	3.79E+00	pCi/L	5.5E+00	5.5E+00	U	1.08E+01		GAMMALL_GS	2.0002E+00	L	04/17/2008 11:13	I
8078362	EU-155	14391-16-3	-1.28E+00	pCi/L	2.6E+00	2.6E+00	U	4.29E+00		GAMMALL_GS	2.0002E+00	L	04/17/2008 11:13	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.

8078362	K-40	13966-00-2	-2.65E+01	pCi/L	3.5E+01	3.5E+01	U	7.12E+01		GAMMALL_GS	2.0002E+00	L	04/17/2008	11:13	I
8078362	RU-106	13967-48-1	-8.15E+00	pCi/L	1.6E+01	1.6E+01	U	2.66E+01		GAMMALL_GS	2.0002E+00	L	04/17/2008	11:13	I
8078362	SB-125	14234-35-6	-1.05E+00	pCi/L	4.2E+00	4.2E+00	U	7.12E+00		GAMMALL_GS	2.0002E+00	L	04/17/2008	11:13	I
8078363	I-129L	15046-84-1	-8.39E-02	pCi/L	1.4E-01	1.4E-01	U	2.34E-01	101.4	I129LL_SEP_LEPS	3.8673E+00	L	04/15/2008	19:04	I
8078364	SR-90	10098-97-2	4.90E-01	pCi/L	3.2E-01	3.6E-01	U	7.00E-01	83.1	SRISO_SEP_PRE	1.00E+00	L	04/18/2008	07:07	I

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

Wednesday, April 30, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.Edd

Lab Sample Id: KJR601AB **Sdg/Rept Nbr:** W05351 38887 **Collection Date:** 03/03/2008 12:23

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

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

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8078362	BE-7	5.95E+00	pCi/L	1.8E+01	U	3.36E+01			GAMMALL_GS	2.0004E+00	04/17/2008				D
BLK	13966-02-4			1.8E+01						L	11:14				
8078362	CO-60	-2.48E-01	pCi/L	1.2E+00	U	2.30E+00			GAMMALL_GS	2.0004E+00	04/17/2008				D
BLK	10198-40-0			1.2E+00						L	11:14				
8078362	CS-134	1.10E+00	pCi/L	1.6E+00	U	3.09E+00			GAMMALL_GS	2.0004E+00	04/17/2008				D
BLK	13967-70-9			1.6E+00						L	11:14				
8078362	CS-137	3.44E-01	pCi/L	1.4E+00	U	2.62E+00			GAMMALL_GS	2.0004E+00	04/17/2008				D
BLK	10045-97-3			1.4E+00						L	11:14				
8078362	EU-154	7.28E-01	pCi/L	3.9E+00	U	7.66E+00			GAMMALL_GS	2.0004E+00	04/17/2008				D
BLK	15585-10-1			3.9E+00						L	11:14				
8078362	EU-155	-4.65E-01	pCi/L	2.5E+00	U	4.28E+00			GAMMALL_GS	2.0004E+00	04/17/2008				D
BLK	14391-16-3			2.5E+00						L	11:14				
8078362	K-40	-4.48E+00	pCi/L	2.1E+01	U	3.99E+01			GAMMALL_GS	2.0004E+00	04/17/2008				D
BLK	13966-00-2			2.1E+01						L	11:14				
8078362	RU-106	-5.96E+00	pCi/L	1.2E+01	U	2.14E+01			GAMMALL_GS	2.0004E+00	04/17/2008				D
BLK	13967-48-1			1.2E+01						L	11:14				
8078362	SB-125	-2.02E+00	pCi/L	3.3E+00	U	5.45E+00			GAMMALL_GS	2.0004E+00	04/17/2008				D
BLK	14234-35-6			3.3E+00						L	11:14				

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

Wednesday, April 30, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.Edd

Lab Sample Id: KJR621AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05351 38887
Matrix: WATER WATER
QC Type: BLK

Collection Date: 03/04/2008 10:50
Sample On Date:
Received Date: 03/05/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8078363	I-129L	-9.52E-02	pCi/L	1.4E-01	U	2.28E-01	93.0		I129LL_SEP_L	3.9978E+00	04/15/2008				D
BLK	15046-84-1			1.4E-01						L	19:05				

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

Wednesday, April 30, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.Edd

Lab Sample Id: KJR641AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05351 38887
Matrix: WATER WATER
QC Type: BLK

Collection Date: 03/06/2008 09:33
Sample On Date:
Received Date: 03/06/2008

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
8078364	SR-90	2.52E-01	pCi/L	2.6E-01	U	5.37E-01	73.5		SRISO_SEP_P	1.00E+00	04/18/2008				D
BLK	10098-97-2			2.5E-01						L	07:07				

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

Wednesday, April 30, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.Edd

Lab Sample Id: KJR681AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05351 38887
Matrix: WATER WATER
QC Type: BLK

Collection Date: 03/07/2008 10:02
Sample On Date:
Received Date: 03/07/2008

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
8078365	TC-99	3.37E+00	pCi/L	5.6E+00	U	9.31E+00	100.0		TC99_ETVDSK	1.2503E-01	04/15/2008				D
BLK	14133-76-7			4.0E+00						L	23:23				

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

Wednesday, April 30, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.Edd

Lab Sample Id: KJR6N1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05351 38887
Matrix: WATER WATER
QC Type: BLK

Collection Date: 03/07/2008 08:05
Sample On Date:
Received Date: 03/07/2008

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
8078360	ALPHA	3.99E-01	pCi/L	3.4E-01	U	5.66E-01	100.0		9310_ALPHAB	2.00E-01	04/16/2008				D
BLK	12587-46-1			3.3E-01						L	15:02				

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

Wednesday, April 30, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.Edd

Lab Sample Id: KJR6W1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05351 38887
Matrix: WATER WATER
QC Type: BLK

Collection Date: 03/05/2008 10:05
Sample On Date:
Received Date: 03/05/2008

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
8078361	BETA	1.26E+00	pCi/L	1.3E+00	U	2.69E+00	100.0		9310_ALPHAB	1.999E-01	04/16/2008				D
BLK	12587-47-2			1.3E+00						L	14:08				

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.

Wednesday, April 30, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.Edd

Lab Sample Id: KJR7C1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05351 38887
Matrix: WATER WATER
QC Type: BLK

Collection Date: 03/03/2008 13:59
Sample On Date:
Received Date: 03/04/2008

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
8078366	Se-79	5.51E+00	pCi/L	8.4E+00	U	1.00E+01	87.2		SE79_SEP_IE	2.0003E-01	04/10/2008				D
BLK	15758-45-9			4.3E+00						L	05:52				

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

Wednesday, April 30, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.Edd

Lab Sample Id: KJR7D1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05351 38887
Matrix: WATER WATER
QC Type: BLK

Collection Date: 03/03/2008 13:59
Sample On Date:
Received Date: 03/04/2008

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
8078367	C-14	-6.71E-01	pCi/L	4.2E+00	U	8.54E+00	100.0		C14_LSC	2.00E-01	03/21/2008				D
BLK	14762-75-5			3.5E+00						L	04:19				

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

Wednesday, April 30, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.Edd

Lab Sample Id: KJR7T1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05351 38887
Matrix: WATER WATER
QC Type: BLK

Collection Date: 03/03/2008 13:59
Sample On Date:
Received Date: 03/04/2008

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
8078369	U-234	-3.19E-02	pCi/L	7.0E-02	U	2.35E-01	93.8		UISO_PLATE_	2.0003E-01	04/17/2008				D
BLK	13966-29-5			7.0E-02						L	23:59				
8078369	U-235	-3.83E-02	pCi/L	7.1E-02	U	2.49E-01	93.8		UISO_PLATE_	2.0003E-01	04/17/2008				D
BLK	15117-96-1			7.1E-02						L	23:59				
8078369	U-238	-3.19E-02	pCi/L	7.0E-02	U	2.35E-01	93.8		UISO_PLATE_	2.0003E-01	04/17/2008				D
BLK	U-238			7.0E-02						L	23:59				

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

Wednesday, April 30, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.Edd

Lab Sample Id: KJR601CS **Sdg/Rept Nbr:** W05351 38887 **Collection Date:** 03/03/2008 12:23

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

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

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8078362	CO-60	4.53E+01	pCi/L	8.0E+00		2.66E+00		3.80E+01	GAMMALL_GS	1.9999E+00	04/17/2008			70	D
BS	10198-40-0			8.0E+00				119.1		L	14:42			130	
8078362	CS-137	5.70E+01	pCi/L	1.0E+01		3.52E+00		4.92E+01	GAMMALL_GS	1.9999E+00	04/17/2008			70	D
BS	10045-97-3			1.0E+01				115.9		L	14:42			130	
8078362	EU-152	7.58E+01	pCi/L	1.7E+01		8.61E+00		7.57E+01	GAMMALL_GS	1.9999E+00	04/17/2008			70	D
BS	14683-23-9			1.7E+01				100.1		L	14:42			130	

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

Wednesday, April 30, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.Edd

Lab Sample Id: KJR621CS **Sdg/Rept Nbr:** W05351 38887 **Collection Date:** 03/04/2008 10:50

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 03/05/2008

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
8078363	I-129L	8.82E+00	pCi/L	1.1E+00		3.60E-01	95.3	9.76E+00	I129LL_SEP_L	3.9736E+00	04/15/2008			70	D
BS	15046-84-1			1.1E+00				90.4		L	19:06			130	

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

Wednesday, April 30, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.Edd

Lab Sample Id: KJR641CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05351 38887
Matrix: WATER WATER
QC Type: BS

Collection Date: 03/06/2008 09:33
Sample On Date:
Received Date: 03/06/2008

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
8078364	SR-90	1.48E+01	pCi/L	2.2E+00		5.21E-01	84.7	1.36E+01	SRISO_SEP_P	1.00E+00	04/18/2008			70	D
BS	10098-97-2			7.4E-01				109.1		L	07:07			130	

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

Wednesday, April 30, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.Edd

Lab Sample Id: KJR681CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05351 38887
Matrix: WATER WATER
QC Type: BS

Collection Date: 03/07/2008 10:02
Sample On Date:
Received Date: 03/07/2008

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
8078365	TC-99	5.10E+02	pCi/L	3.6E+01		9.25E+00	100.0	5.38E+02	TC99_ETVDSK	1.25E-01	04/16/2008			70	D
BS	14133-76-7			1.3E+01				94.8		L	00:25			130	

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

Wednesday, April 30, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.Edd

Lab Sample Id: KJR6N1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05351 38887
Matrix: WATER WATER
QC Type: BS

Collection Date: 03/07/2008 08:05
Sample On Date:
Received Date: 03/07/2008

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
8078360	ALPHA	2.23E+01	pCi/L	5.4E+00		5.50E-01	100.0	2.29E+01	9310_ALPHAB	2.003E-01	04/16/2008			70	D
BS	12587-46-1			1.6E+00				97.1		L	15:02			130	

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

Wednesday, April 30, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.Edd

Lab Sample Id: KJR6W1CS **Sdg/Rept Nbr:** W05351 38887 **Collection Date:** 03/05/2008 10:05

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 03/05/2008

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
8078361	BETA	2.06E+01	pCi/L	4.0E+00		2.38E+00	100.0	2.25E+01	9310_ALPHAB	2.004E-01	04/16/2008			70	D
BS	12587-47-2			2.2E+00				91.6		L	14:08			130	

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

Wednesday, April 30, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.Edd

Lab Sample Id: KJR7D1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05351 38887
Matrix: WATER WATER
QC Type: BS

Collection Date: 03/03/2008 13:59
Sample On Date:
Received Date: 03/04/2008

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
8078367	C-14	4.08E+01	pCi/L	5.8E+00		8.54E+00	100.0	4.47E+01	C14_LSC	2.00E-01	03/21/2008			70	D
BS	14762-75-5			4.7E+00				91.2		L	05:02			130	

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

Wednesday, April 30, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.Edd

Lab Sample Id: KJR7T1CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05351 38887
Matrix: WATER WATER
QC Type: BS

Collection Date: 03/03/2008 13:59
Sample On Date:
Received Date: 03/04/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8078369	U-234	7.61E+00	pCi/L	1.6E+00		2.20E-01	101.0	8.69E+00	UISO_PLATE_	2.00E-01	04/18/2008			70	D
BS	13966-29-5			9.6E-01				87.5		L	00:01			130	
8078369	U-238	8.77E+00	pCi/L	1.8E+00		2.20E-01	101.0	9.10E+00	UISO_PLATE_	2.00E-01	04/18/2008			70	D
BS	U-238			1.0E+00				96.4		L	00:01			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.

Wednesday, April 30, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.Edd

Lab Sample Id: KH1681JR
Client Id: B1T302
Moisture/Solids%*:

Sdg/Rept Nbr: W05351 38887
Matrix: WATER WATER
QC Type: DUP

Collection Date: 03/03/2008 13:59
Sample On Date:
Received Date: 03/04/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-022	MW6-SBB-A19981								AQ	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
8078367	C-14	3.21E+00	pCi/L	4.4E+00	U	8.54E+00	100.0		C14_LSC	2.00E-01	03/21/2008	702.7	1.6		D
DUP	14762-75-5	-1.79E+00		3.6E+00						L	06:27	20.0	3		

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

Wednesday, April 30, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.Edd

Lab Sample Id: KH1681KR
Client Id: B1T302
Moisture/Solids%*:

Sdg/Rept Nbr: W05351 38887
Matrix: WATER WATER
QC Type: DUP

Collection Date: 03/03/2008 13:59
Sample On Date:
Received Date: 03/04/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-022	MW6-SBB-A19981								AR	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
8078369	U-234	6.52E-01	pCi/L	3.1E-01		1.56E-01	96.0		UISO_PLATE_	2.00E-01	04/17/2008	23.2	0.8		D
DUP	13966-29-5	8.23E-01		2.9E-01						L	23:59	20.0	3		
8078369	U-235	2.61E-02	pCi/L	6.7E-02	U	1.56E-01	96.0		UISO_PLATE_	2.00E-01	04/17/2008	200.0	0.6		D
DUP	15117-96-1	0.00E+00		6.6E-02						L	23:59	20.0	3		
8078369	U-238	5.22E-01	pCi/L	2.7E-01		1.56E-01	96.0		UISO_PLATE_	2.00E-01	04/17/2008	60.8	1.3		D
DUP	U-238	2.78E-01		2.6E-01						L	23:59	20.0	3		

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

Wednesday, April 30, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.Edd

Lab Sample Id: KH17D1ER **Sdg/Rept Nbr:** W05351 38887 **Collection Date:** 03/03/2008 12:23

Client Id: B1T5W4 **Matrix:** WATER WATER **Sample On Date:**

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

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W08-002	MW6-SBB-A19981								AS	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
8078362	BE-7	1.16E+01	pCi/L	2.2E+01	U	4.11E+01			GAMMALL_GS	2.0001E+00	04/17/2008	294.3	0.9		D
DUP	13966-02-4	-2.21E+00		2.2E+01						L	14:40	20.0	3		
8078362	CO-60	1.40E+00	pCi/L	2.1E+00	U	4.20E+00			GAMMALL_GS	2.0001E+00	04/17/2008	1166.8	1.6		D
DUP	10198-40-0	-9.93E-01		2.1E+00						L	14:40	20.0	3		
8078362	CS-134	6.23E-02	pCi/L	1.8E+00	U	3.35E+00			GAMMALL_GS	2.0001E+00	04/17/2008	115.4	0.1		D
DUP	13967-70-9	2.32E-01		1.8E+00						L	14:40	20.0	3		
8078362	CS-137	-7.41E-01	pCi/L	1.7E+00	U	2.96E+00			GAMMALL_GS	2.0001E+00	04/17/2008	0.0	0.		D
DUP	10045-97-3	-6.81E-01		1.7E+00						L	14:40	20.0	3		
8078362	EU-154	1.26E+00	pCi/L	4.8E+00	U	9.22E+00			GAMMALL_GS	2.0001E+00	04/17/2008	0.0	1.2		D
DUP	15585-10-1	-2.85E+00		4.8E+00						L	14:40	20.0	3		
8078362	EU-155	-3.77E+00	pCi/L	3.3E+00	U	5.29E+00			GAMMALL_GS	2.0001E+00	04/17/2008	0.0	2.6		D
DUP	14391-16-3	2.49E+00		3.3E+00						L	14:40	20.0	3		
8078362	K-40	3.11E+00	pCi/L	4.2E+01	U	8.87E+01			GAMMALL_GS	2.0001E+00	04/17/2008	0.0	1.1		D
DUP	13966-00-2	-2.87E+01		4.2E+01						L	14:40	20.0	3		
8078362	RU-106	2.39E+00	pCi/L	1.6E+01	U	2.85E+01			GAMMALL_GS	2.0001E+00	04/17/2008	55.5	0.2		D
DUP	13967-48-1	4.22E+00		1.6E+01						L	14:40	20.0	3		
8078362	SB-125	-4.29E+00	pCi/L	5.0E+00	U	8.06E+00			GAMMALL_GS	2.0001E+00	04/17/2008	0.0	1.		D
DUP	14234-35-6	-6.76E-01		5.0E+00						L	14:40	20.0	3		

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

Wednesday, April 30, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.Edd

Lab Sample Id: KH33F1ER **Sdg/Rept Nbr:** W05351 38887 **Collection Date:** 03/05/2008 10:05

Client Id: B1T5F6 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 03/05/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8078361	BETA	1.91E+03	pCi/L	2.5E+02		3.07E+00	100.0		9310_ALPHAB	2.002E-01	04/16/2008	1.0	0.1		D
DUP	12587-47-2	1.93E+03		2.2E+01						L	14:08	20.0	3		

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

Wednesday, April 30, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.Edd

Lab Sample Id: KH34N1CR
Client Id: B1T3L0
Moisture/Solids%*:

Sdg/Rept Nbr: W05351 38887
Matrix: WATER WATER
QC Type: DUP

Collection Date: 03/04/2008 10:50
Sample On Date:
Received Date: 03/05/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-023	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
8078363	I-129L	1.26E-01	pCi/L	2.0E-01	U	2.98E-01	103.0		I129LL_SEP_L	3.886E+00	04/15/2008	493.5	1.3		D
DUP	15046-84-1	-5.32E-02		2.0E-01						L	15:29	20.0	3		

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

Wednesday, April 30, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.Edd

Lab Sample Id: KH6EA1ER **Sdg/Rept Nbr:** W05351 38887 **Collection Date:** 03/06/2008 09:33

Client Id: B1T411 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 03/06/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-002	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
8078364	SR-90	3.38E-01	pCi/L	3.0E-01	U	5.91E-01	70.4		SRISO_SEP_P	1.00E+00	04/18/2008	.4	0.		D
DUP	10098-97-2	3.36E-01		2.8E-01						L	07:07	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.

Wednesday, April 30, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.Edd

Lab Sample Id: KH90D1FR
Client Id: B1RCV2
Moisture/Solids%*:

Sdg/Rept Nbr: W05351 38887
Matrix: WATER WATER
QC Type: DUP

Collection Date: 03/07/2008 10:02
Sample On Date:
Received Date: 03/07/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-012	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
8078365	TC-99	6.21E+00	pCi/L	5.8E+00	U	9.27E+00	100.0		TC99_ETVDSK	1.2502E-01	04/15/2008	25.5	0.3		D
DUP	14133-76-7	4.81E+00		4.1E+00						L	22:20	20.0	3		

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

Wednesday, April 30, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.Edd

Lab Sample Id: KH90N1GR
Client Id: B1RTN3
Moisture/Solids%*:

Sdg/Rept Nbr: W05351 38887
Matrix: WATER WATER
QC Type: DUP

Collection Date: 03/07/2008 08:05
Sample On Date:
Received Date: 03/07/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-001	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
8078360	ALPHA	1.24E-01	pCi/L	3.7E-01	U	9.22E-01	100.0		9310_ALPHAB	2.004E-01	04/16/2008	116.6	1.3		D
DUP	12587-46-1	4.69E-01		3.7E-01						L	13:47	20.0	3		

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

Wednesday, April 30, 2008

TestAmerica Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05351.Edd, h:\Reportdb\edd\FeadIV\Rad\38887.Edd

Lab Sample Id: KH90D1EW
Client Id: B1RCV2
Moisture/Solids%*:

Sdg/Rept Nbr: W05351 38887
Matrix: WATER WATER
QC Type: MS

Collection Date: 03/07/2008 10:02
Sample On Date:
Received Date: 03/07/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-012	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
8078365	TC-99	3.42E+03	pCi/L	2.1E+02		9.25E+00	100.0	3.64E+03	TC99_ETVDSK	1.2501E-01	04/15/2008			60	D
MS	14133-76-7			3.1E+01				94.1		L	21:18			140	

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

RQC050

TestAmerica Laboratories, Inc.
WET CHEM BATCHSHEET

Run Date: 3/27/08
Time: 14:37:32

TestAmerica Richland

PRODUCTION FIGURES - WET CHEM

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

METHOD: IZ COLIFORM BY METHOD 9223
QC BATCH #: **8078370**
PREP DATE: 3/18/08
COMP DATE: 3/18/08
USER: WAGARR

INITIALS:
PREP _____
ANAL _____

DATA ENTRY:
INITIALS _____
DATE _____

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:	
KH50F-1-AA	J-8C060304-001	XX I 88 IZ 5I	E	3/7/08	B1T653	<1 COL/100
KH50F-1-AC	J-8C060304-001-X	XX I 88 IZ 5I	E		B1T653 DUP	
KJR7V-1-AA	J-8C180000-370-B	XX I 88 IZ 5I			INTRA-LAB BLANK	
KJR7V-1-AC	J-8C180000-370-C	XX I 88 IZ 5I			INTRA-LAB CHECK	20.1

Control Limits

(0-0)

TestAmerica

TA Richland
Hexavalent Chromium - Water

Analyst:	D. Petty
Start Date:	3/7/2008
Start Time:	
End Date:	3/7/2008
End Time	
Analyst Signature:	
Date:	03/27/08

Calibration Curve Information

	Amount	Conc.(mg/L)	ABS.
Blank	0.000	0.000	0.000
Std. 1	0.100	0.050	0.096
Std. 2	0.500	0.250	0.456
Std. 3	0.750	0.375	0.706
Std. 4	1.500	0.750	1.399
Std 5	2.000	1.000	1.821
Standard Volume (mL):			100.000
Date of Curve:			3/7/2008

SOP Information	
RICH-WC-5003	
Revision 7	
MDL (mg/L)	0.002

BATCH #	8070255
SDG #	W05351
Matrix	Water

Instrument Information	
Instrument:	Hach DR2010
Wavelength:	540
R Squared	0.99965
Slope:	1.83236
Intercept:	0.00575

	Calibration Information:	ICV Information:		LCS Information:		Matrix Spike Information:	
Dilution ID #							
Prep Date:	03/07/08	03/07/08		03/07/08		03/07/08	
Concentration (mg/L)	50	50		50		50	
Expiration Date:	03/08/08	03/08/08		03/08/08		03/08/08	
Pipettor(s)	70,190	190		190		190	
Volume Used (/ Expected Value		1.000	0.50000	1.00	0.50000	0.50	0.26316

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

Sample ID	Client ID	Type	Sample Volume (mL)	Sample ABS.	Blank ABS.	Corrected ABS.	Dilution Factor	Curve Conc. (mg/L)	Final Conc. (mg/L)	% Rec.
n/a	n/a	ICV	100.000	0.926	0.000	0.926	1	0.5022	0.502	100.44%
n/a	n/a	ICB	100.000	0.002	0.000	0.002	1	-0.0020	<MDL	
KH9521AA	n/a	Prep Blank	100.000	0.002		0.002	1	-0.0020	<MDL	
KH9521AC	n/a	LCS	100.000	0.936		0.936	1	0.5077	0.508	101.54%
KH9XF1AA	B1T255	Sample	100.000	0.370		0.370	1	0.1988	0.199	
KH9XF1AC-S	B1T255-MS	MS	100.000	0.858		0.858	1	0.4651 0.2466	~~0.465~~ SKS 3/27/08	101.20%
KH9XF1AD-D	B1T255-MSD	MSD	100.000	0.855		0.855	1	0.4635 0.2464	~~0.463~~	100.58%
KH9XF1AE-X	B1T255-DUP	Duplicate	100.000	0.368		0.368	1	0.1977	0.198	
D SKS 3/27/08			100.000				1			
			100.000				1			
			100.000				1			
n/a	n/a	CCV	100.000	0.925		0.925	1	0.5017	0.502	100.33%
n/a	n/a	CCB	100.000	0.002		0.002	1	-0.0020	<MDL	
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			

TestAmerica

TA Richland
Hexavalent Chromium - Water

Analyst:	D. Petty
Start Date:	3/5/2008
Start Time:	
End Date:	3/5/2008
End Time	
Analyst Signature:	
Date:	03/27/08

Calibration Curve Information

	Amount	Conc.(mg/L)	ABS.
Blank	0.000	0.000	0.000
Std. 1	0.100	0.050	0.093
Std. 2	0.500	0.250	0.462
Std. 3	0.750	0.375	0.702
Std. 4	1.500	0.750	1.386
Std 5	2.000	1.000	1.815
Standard Volume (mL):			100.000
Date of Curve:			3/5/2008

SOP Information	
RICH-WC-5003	
Revision 7	
MDL (mg/L)	0.002

BATCH #	8078372
SDG #	W05351
Matrix	Water

Instrument Information	
Instrument:	Hach DR2010
Wavelength:	540
R Squared	0.99978
Slope:	1.82245
Intercept:	0.00643

	Calibration Information:	ICV Information:		LCS Information:		Matrix Spike Information:	
Dilution ID #	Cr-08-00053	Cr-08-00054		Cr-08-00053		Cr-08-00053	
Prep Date:	03/05/08	03/05/08		03/05/08		03/05/08	
Concentration (mg/L)	50	50		50		50	
Expiration Date:	03/06/08	03/06/08		03/06/08		03/06/08	
Pipettor(s)	70,190	190		190		190	
Volume Used (Expected Value		1.000	0.50000	1.00	0.50000	0.50	0.26316

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

Sample ID	Client ID	Type	Sample Volume (mL)	Sample ABS.	Blank ABS.	Corrected ABS.	Dilution Factor	Curve Conc. (mg/L)	Final Conc. (mg/L)	% Rec.
n/a	n/a	ICV	100.000	0.994	0.000	0.994	1	0.5419	0.542	108.38%
n/a	n/a	ICB	100.000	0.000	0.000	0.000	1	<MDL	<MDL	
kjr7x1aa	n/a	Prep Blank	100.000	0.000		0.000	1	<MDL	<MDL	
kjr7x1ac	n/a	LCS	100.000	0.926		0.926	1	0.5046	0.505	100.92%
kh32v1aa	B1T286	Sample	100.000	0.362		0.362	1	0.1951	0.195	
kh32v1aC-S	B1T286-MS	MS	100.000	0.846		0.846	1	0.4607 0.266	~~0.461~~	100.92%
kh32v1aD-D	B1T286-MSD	MSD	100.000	0.854		0.854	1	0.4651 0.27	~~0.465~~	102.59%
kh32v1aE-X	B1T286-DUP	Duplicate	100.000	0.362		0.362	1	0.1951	0.195	
			100.000				1			
			100.000				1			
			100.000				1			
n/a	n/a	CCV	100.000	0.994		0.994	1	0.5419	0.542	108.38%
n/a	n/a	CCB	100.000	-0.001		-0.001	1	<MDL	<MDL	
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			

TestAmerica

TA Richland
Hexavalent Chromium - Water

Analyst:	D. Petty
Start Date:	3/11/2008
Start Time:	
End Date:	3/11/2008
End Time	
Analyst Signature:	
Date:	03/27/08

Calibration Curve Information			
	Amount	Conc.(mg/L)	ABS.
Blank	0.000	0.000	0.000
Std. 1	0.100	0.050	0.096
Std. 2	0.500	0.250	0.478
Std. 3	0.750	0.375	0.71
Std. 4	1.500	0.750	1.399
Std 5	2.000	1.000	1.780
Standard Volume (mL):			100.000
Date of Curve:			3/11/2008

SOP Information	
RICH-WC-5003	
Revision 7	
MDL (mg/L)	0.002

BATCH #	8078373
SDG #	W05351
Matrix	Water

Instrument Information	
Instrument:	Hach DR2010
Wavelength:	540
R Squared	0.99873
Slope:	1.79691
Intercept:	0.01758

	Calibration Information:	ICV Information:		LCS Information:		Matrix Spike Information:	
Dilution ID #	Cr-08-00055	Cr-08-00056		Cr-08-00055		Cr-08-00055	
Prep Date:	03/11/08	03/11/08		03/11/08		03/11/08	
Concentration (mg/L)	50	50		50		50	
Expiration Date:	03/12/08	03/12/08		03/12/08		03/12/08	
Pipettor(s)	70,190	190		190		190	
Volume Used / Expected Value		1.000	0.50000	1.00	0.50000	0.50	0.26316

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

Sample ID	Client ID	Type	Sample Volume (mL)	Sample ABS.	Blank ABS.	Corrected ABS.	Dilution Factor	Curve Conc. (mg/L)	Final Conc. (mg/L)	% Rec.
n/a	n/a	ICV	100.000	0.000	0.000	0.000	1	<MDL	<MDL	
n/a	n/a	ICB	100.000	0.925	0.000	0.925	1	0.5050	0.505	
KJR701AA-B	n/a	Prep Blank	100.000	-0.005		-0.005	1	<MDL	<MDL	
KJR701AC-S	n/a	LCS	100.000	0.935		0.935	1	0.5106	0.511	102.11%
KJD2M-1	B1TJC4	Sample	100.000	-0.003		-0.003	1	<MDL	<MDL	
KJD2M-C-S	B1TJC4-MS	MS	100.000	0.495		0.495	1	0.2657	0.266	100.96%
KJD2M-D-D	B1TJC4-MSD	MSD	100.000	0.497		0.497	1	0.2668	0.267	101.38%
KJD2M-E-X	B1TJC4-DUP	Duplicate	100.000	-0.004		-0.004	1	<MDL	<MDL	
D			100.000				1			
			100.000				1			
			100.000				1			
n/a	n/a	CCV	100.000	0.924		0.924	1	0.5044	0.504	100.89%
n/a	n/a	CCB	100.000	-0.001		-0.001	1	<MDL	<MDL	
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			

SKS 4/3/08

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/25/2008 8:15:19 AM

Lot No., Due Date: J8C050118; 04/25/2008
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 8078369; RUISO Uiso by ALP
SDG, Matrix: W05351; 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** 4-25-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8078369

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

Comments on any "No" response: no NCs

Second Level Review: Dr Petty Date: 04-28-08

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/18/2008 12:02:27 PM

Lot No., Due Date: J8C050121,J8C050386,J8C100139,J8C100141; 04/21/2008,04/25/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8078360; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05351; 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 => KH33F1AA 78.20<200.00 KH3351AA 65.70<200.00 Q:VB		✓	
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. RPD > UCL : 20.0=> KH90N1AG ALPHA 120.0 (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. MDC/MDA > CRDL => KH33F1AA ALPHA 4.4E+00>3.0E+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 => KH17D1AA ALPHA 2.3E+00 L:1.3E+00 KH33F1AA ALPHA 6.3E+02 L:4.4E+00 KH3351AA ALPHA 5.1E+02 L:3.0E+00 KH90D1AA ALPHA 2.7E+00 L:1.5E+00		✓	
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. Yes No N/A ✓
No FWHM found in Batch Data!

8.26 Instruments have Current Calibrations. Yes No N/A

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

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

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

8.3 Comments:
NCM 10-12149

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

First Level Review Lisa Cantonson Date 4/18/08

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 80783100

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 Jordan

Date: ~~4/1~~ 4/21/8
cg 4/21/8

Clouseau Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: 10-12149
NCM Initiated By: Lisa Antonson
Date Opened: 04/18/2008
Date Closed:

Classification: **Anomaly**
Status: **QAREVIEW**
Production Area: Environmental - Prep
Tests: Alpha by GPC-Am
Lot #'s (Sample #'s): J8C050121 (1), J8C050386 (1,2), J8C100139 (1), J8C100141 (1,2), J8C180000 (360),
QC Batches: 8078360,

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

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	04/18/2008	Sample KH33F does not meet CRDL due to reduced aliquots based on weight screens. The result exceeds the MDA achieved, data accepted.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	04/18/2008	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

Date Printed: 4/18/2008

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/18/2008 11:55:04 AM

Lot No., Due Date: J8C050121,J8C050386,J8C100139,J8C100141; 04/21/2008,04/25/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8078361; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05351; WATER

		Yes	No	N/A
8.0	Correction Calculation Protocol Used. OK	✓		
8.01	The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02	Final Results Are in the Appropriate Activity Units OK	✓		
8.03	Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04	The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05	Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06	At Least the Minimum Sample Volume Was Used OK	✓		
8.07	The Correct Count Geometry was Used. OK	✓		
8.08	The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09	Method Blank is within Control Limits. OK	✓		
8.1	Comments:			
8.11	Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12	Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13	QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14	LCS within Control Limits. OK	✓		
8.15	MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16	MS within Control Limits. 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. Batch Positive Result => KH17D1AC BETA 2.2E+02 L:2.9E+00 KH33F1AC BETA 1.9E+03 L:3.1E+00 KH3351AC BETA 1.8E+03 L:3.1E+00 KH90D1AC BETA 1.3E+01 L:2.7E+00 KH90P1AC BETA 4.2E+00 L:2.7E+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	✓		

8.25 Counting Spectrum are within FWHM Limits. Yes No N/A ✓
No FWHM found in Batch Data!

8.26 Instruments have Current Calibrations. Yes No N/A

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

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

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

8.3 Comments:

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

First Level Review Lisa Christenson Date 4/18/08

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8078361

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 Jost Date: 4/21/18

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/25/2008 8:17:10 AM

Lot No., Due Date: J8C050118,J8C060372,J8C100141; 04/25/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8078364; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05351; 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** 4-25-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8078364

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

Comments on any "No" response: No NCM

Second Level Review: [signature] Date: 04-28-08

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/25/2008 8:12:22 AM

Lot No., Due Date: J8C050118,J8C050121,J8C050386,J8C060372,J8C100141; 04/25/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8078362; RGAMMA Gamma by GER

SDG, Matrix: W05351; WATER

1.0 COC

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

2.0 QC Batch

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

3.0 QC & Samples

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

4.0 Raw Data

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

5.0 Other

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

6.0 Comments on any No response:

Sample J8C050121-1 was re-counted on a different detector to create a duplicate.

First Level Review [signature] **Date** 4-25-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8078362

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

Comments on any "No" response: No Non

Second Level Review: [illegible] Date: 04-28-08

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/16/2008 2:35:58 PM

Lot No., Due Date: J8C050118,J8C050388,J8C050389,J8C060372,J8C100141; 04/25/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8078363; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05351; 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 Norton **Date** 4-16-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8078363

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: 4/17/18

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/25/2008 8:13:48 AM

Lot No., Due Date: J8C100139; 04/25/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8078365; RTC99 Tc-99 by LSC

SDG, Matrix: W05351; 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** 4-25-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8078365

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

Comments on any "No" response: No Nonc

Second Level Review: [illegible] Date: 04-28-08

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/29/2008 1:48:04 PM

Lot No., Due Date: J8C050118; 04/25/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8078366; RSE79 Se-79 by LSC

SDG, Matrix: W05351; 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 # 10-12229

First Level Review [signature] **Date** 4-29-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: Y0783666

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

Comments on any "No" response: _____

Second Level Review: [signature] Date: 4/29/08

Clouseau Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-12229**
NCM Initiated By: John Norton
Date Opened: 04/29/2008
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Sep
Tests: Se-79 by LSC
Lot #'s (Sample #'s): J8C050118 (2), J8C180000 (366),
QC Batches: 8078366,

Nonconformance: Tracer yield out of limits
Subcategory: Unknown

Problem Description / Root Cause

Name	Date	Description
John Norton	04/29/2008	The duplicate sample produced a tracer yield of only 15%.

Corrective Action

Name	Date	Corrective Action
John Norton	04/29/2008	On consultation with the client, the batch was accepted without the duplicate.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 4/29/2008

TestAmerica

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/25/2008 5:45:36 PM

Lot No., Due Date: J8C050118; 04/25/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8078367; RC14 C-14 by LSC

SDG, Matrix: W05351; WATER

8.0 Correction Calculation Protocol Used. OK	Yes ✓	No	N/A
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	Yes ✓	No	N/A
8.02 Final Results Are in the Appropriate Activity Units OK	Yes ✓	No	N/A
8.03 Batch Contains the Required QC Appropriate for the Method OK	Yes ✓	No	N/A
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	Yes ✓	No	N/A
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	Yes ✓	No	N/A
8.06 At Least the Minimum Sample Volume Was Used OK	Yes ✓	No	N/A
8.07 The Correct Count Geometry was Used. OK	Yes ✓	No	N/A
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	Yes ✓	No	N/A
8.09 Method Blank is within Control Limits. OK	Yes ✓	No	N/A
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!	Yes	No	N/A ✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	Yes ✓	No	N/A
8.13 QAS Specified Duplicate Equation Value within Control Limits. RPD > UCL : 20.0=> KH1681AJ C-14 700.0 (RPD)	Yes	No ✓	N/A
8.14 LCS within Control Limits. OK	Yes ✓	No	N/A
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!	Yes	No	N/A ✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!	Yes	No	N/A ✓
8.17 Tracer within Control Limits. No Tracers found in Batch!	Yes	No	N/A ✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!	Yes	No	N/A ✓
8.19 Sample Specific MDC <= CRDL. OK	Yes ✓	No	N/A
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!	Yes	No	N/A ✓
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc_IDL Not Calculated	Yes ✓	No	N/A
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => C-14 OK; No Callin Level Found => C-14	Yes ✓	No	N/A
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. 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 Lisa Anderson Date 3/25/08

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8078367

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: 3/26/8

ENTERED 4-21-08 SKS

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/27/2008 1:16:17 PM

Lot No., Due Date: J8C060304; 04/25/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8078370;

SDG, Matrix: W05351; WATER

1.0 COC

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

2.0 QC Batch

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

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

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

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

3.0 QC & Samples

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

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

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

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

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

4.0 Raw Data

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

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

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

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

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

5.0 Other

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

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

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

5.4 Was transcription checked? Yes ✓ No N/A

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

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

6.0 Comments on any No response:

First Level Review Lisa Anderson Date 3/27/08

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8078370

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: 4/24/8

Entered 4-21-08 SKS

TestAmerica

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): **8070255** J8C100135

Lab Sample Numbers or WQ5351 SKS 3/27/08

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

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

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

Comments on any "No" response:

Analyst: [signature] Date: 3/27/08

Second-Level Review: [signature] Date: 4/24/8

ENTERED 4-21-08
SKS

TestAmerica

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): 8078372 J8C050384

Lab Sample Numbers or WQ05351 SKS 3/27/08

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

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

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

Comments on any "No" response:

Analyst: [signature] Date: 3/27/08

Second-Level Review: [signature] Date: ~~4/27/8~~ 4/24/8

4/24/8

Entered 4-21-08 SKS

TestAmerica

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): **8078373** J8C110314

Lab Sample Numbers or WQ5351 SKS 3/27/08

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

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

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

Comments on any "No" response:

Analyst: [signature] Date: 3/27/08

Second-Level Review: [signature] Date: 4/24/08

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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8C050118 W05351 DUE 4-18-08 KH166

C.O.C. # **I08-022-32**

Page 1 of 1

Collector R. D. Julian	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
IAF No. I08-022	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2UP1, FEBRUARY 2008	Logbook: HNF-N-506-13	**Ice Chest No.** SML-538 **Temp.**
Shipped To (Lab) TestAmerica Incorporated Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1T304		W	3/3/08	14:55	1x20-mL P	Activity Scan	None
B1T304		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

R. Wall 3/3/08

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. D. Julian			MAR 04 2008 1330	K. B. Hulse			MAR 04 2008 1330
K. B. Hulse			MAR 04 2008 1455	Rhonda Wogd			MAR 04 2008 1455

Matrix *

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

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

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8C050118 W05351 DUE 4-18-08 KH168

C.O.C. # **I08-022-24**

Page 1 of 1

Collector D. J. Sparks	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-022	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2UP1, FEBRUARY 2008	HNF-N-506-11	**Ice Chest No.** CRP-03-026 **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 ☐
200 Area Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1T302		W	3/3/08	1359	1x20-mL P	Activity Scan	None
B1T302		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1T302		W			2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1T302		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1T302		W			2x1000-mL G/P	Selenium-79	HNO3 to pH <2
B1T302		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1T302		W			1x1000-mL G/P	UISO_PLATE_AEA: List-1 (3)	HNO3 to pH <2

3/3/08

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	D. J. Sparks		MAR 04 2008 1330		K. B. Huise		MAR 04 2008 1330
Relinquished By	K. B. Huise		MAR 04 2008 1455	Received By	Rhonda Wagar		MAR 04 2008 1455
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

DUE 4-18-08

Date/Time Received: 3/4/08 1455 GM Screen Result _____

Client: PGW SDG #: W05351 NA[ ] SAF #: I08-022 NA [ ]

Work Order Number: J8C050118 Chain of Custody # I08-022-24432

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

1. Custody Seals on shipping container intact? NA [✓] Yes [ ] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ✓ Tape
   - ✓ Custody Seals
   - ___ Hazard 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: 3/4/08

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

TESTAMERICA

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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8C050121 W05351 DUE 4-18-08 KH17D

C.O.C. # **W08-002-346**

Page 1 of 1

Collector D. J. Sparks	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. W08-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, FEBRUARY 2008	HNF-N-506-11	**Ice Chest No.** GRP03026 **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1T5W4		W	3/3/08	1223	1x20-mL P	Activity Scan	None
B1T5W4		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1T5W4		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

3/3/08

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. J. Sparks			MAR 04 2008 1330	K. B. Hulse			MAR 04 2008 1330
K. B. Hulse			MAR 04 2008 1455	Rhonda Wagar			MAR 04 2008 1455

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

DUE 4-18-08

Date/Time Received: 3/4/08 1455 GM Screen Result 0.2

Client: PGW SDG #: W05351 NA[ ] SAF #: W08-002 NA [ ]

Work Order Number: J8C050121 Chain of Custody # W08-002-346

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

1. Custody Seals on shipping container intact? NA [X] Yes [ ] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [X] No [ ]
3. Chain of Custody record present? NA [ ] Yes [X] No [ ]
4. Cooler Temperature: _____ NA [X]
5. Vermiculite/packing materials is NA [X] Wet [ ] Dry [ ]
6. Number of samples in shipping container: ~~3~~ 1
7. Sample holding times exceeded? NA [X] Yes [ ] No [ ]
8. Samples have:
   - X Tape
   - X Custody Seals
   - ___ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - X 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 [X]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: Shonda [illegible] Date: 3/4/08

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

TESTAMERICA

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8C050384 W05351 DUE 4-18-08 KH32V

C.O.C. # **I08-020-106**

Page 1 of 1

Collector R. D. Julian	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-020	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100HR3IAM(1/2), FEBRUARY 2008	Logbook: HNF-N-506-13	**Ice Chest No.** SML461 **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol CERCLA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

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

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1T286		W	3/4/08	1052	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	Cool~4C
B1T286		W	↓	↓	1x20-mL P	Activity Scan	None

J. Wall 3/4/08

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. D. Julian	[signature]		1200 MAR 05 2008	J.G. Hogan Fluor Hanford	[signature]		1200 MAR 05 2008
J.G. Hogan Fluor Hanford	[signature]		1440 MAR 05 2008	[signature] LVLANE TAL-R			1440 MAR 05 2008

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

DUE 4-18-08

Date/Time Received: 3-5-08 1440 **GM Screen Result** 0.2 K

Client: PGW **SDG #:** W05351 NA[ ] **SAF #:** I08-020 NA [ ]

Work Order Number: J8C050384 **Chain of Custody #** I08-020-106

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:** 3-5-08

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

TESTAMERICA

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8C050386 W05351 DUE 4-18-08 KH33F

C.O.C. # **W08-002-206**

Page 1 of 1

Collector J. Hogan	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. W08-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, FEBRUARY 2008	HNF-N-506-11	**Ice Chest No.** SML438 **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1T5F6		W	3/5/08	1005	1x20-mL P	Activity Scan	None
B1T5F6		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1T5F6		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

3/5/08

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
J Hogan	J Hogan		MAR 05 2008 1440	LJ LANE	TAL-R		3-5-08 1440
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TESTAMERICA

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

18C050386 W05351 DUE 4-18-08 KH335

C.O.C. # **W08-002-207**

Page 1 of 1

Collector J. Hogan	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. W08-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, FEBRUARY 2008	HNF-N-506-11	**Ice Chest No.** SMC438 **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1T5F7		W	3/5/08	1005	1x20-mL P	Activity Scan	None
B1T5F7		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1T5F7		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
			3/5/08				

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
J Hogan	J Hogan	J Hogan	1440 MAR 05 2008	LJLANE	TAL-K		1440 3-5-08
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 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

DUE 4-18-08

Date/Time Received: 3-5-08 1440 **GM Screen Result** 0.2K

Client: PGW **SDG #:** W053351 NA[ ] **SAF #:** W08-002 NA [ ]

Work Order Number: J8C050386 **Chain of Custody #** W08-002-206

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: _____ **Date:** 3-5-08

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

J8C050388 W05351 DUE 4-18-08 KH34N

C.O.C. # **I08-023-128**

Page 1 of 1

Collector J.G. Hogan Fluor Hanford	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-023	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2ZP1, FEBRUARY 2008	HNF-N-506-11	**Ice Chest No.** GRP-06 OCY **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 ☐
200 Area Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1T3L0		W	3/4/08	1050	1x20-mL P	Activity Scan	None
B1T3L0		W	✓	✓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
			3/4/08				

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
J.G. Hogan Fluor Hanford	J.G. Hogan	J.G. Hogan	1440 MAR 05 2008	LVLANE	TAL-K		1440 MAR 05 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

DUE 4-18-08

Date/Time Received: 3-5-08 1440 **GM Screen Result** 0.2K

Client: PGW **SDG #:** W05351 NA[ ] **SAF #:** I08-023 NA [ ]

Work Order Number: J8C050388 **Chain of Custody #** I08-023-128

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: _____ **Date:** 3-5-08

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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TESTAMERICA

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8C050389 WO 5351 Due 04.18.08

C.O.C. # **I08-022-76**

Page 1 of 1

Collector FLUOR HANFORD R.F. CARRIGAN	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-022	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2UP1, FEBRUARY 2008	HNF-N-506-12	**Ice Chest No.** SML438 **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 ☐
200 Area Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1T329		W	3/4/08	1103	1x20-mL P	Activity Scan	None
B1T329		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

KH35E

DRW 3/4/08

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD R.F. CARRIGAN	R.F. Carrigan		MAR 05 2008 1200	J.G. Hogan Fluor Hanford	J.G. Hogan		MAR 05 2008 1200
J.G. Hogan Fluor Hanford	J.G. Hogan		MAR 05 2008 1440	LVLANE TAL-L	LVLANE		MAR 05 2008 1440
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TESTAMERICA

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8C050389 WO5351 Due 04.18.08

C.O.C. # **I08-022-56**

Page 1 of 1

Collector FLUOR HANFORD R.F. CARRIGAN	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
AF No. I08-022	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2UP1, FEBRUARY 2008	HNF-N-506-R	**Ice Chest No.** SML438 **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 ☐
200 Area Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1T319		W	3/4/08	1145	1x20-mL P	Activity Scan	None
B1T319		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						KH35G	
			DRW 3/4/08				

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD R.F. CARRIGAN	R.F. Carrigan	R.F. Carrigan	1200 MAR 05 2008	J.G. Hogan Fluor Hanford	J.G. Hogan	J.G. Hogan	1200 MAR 05 2008
J.G. Hogan Fluor Hanford	J.G. Hogan	J.G. Hogan	1440 MAR 05 2008	K.R. LYLANE	TAL-R		1440 MAR 05 2008

Matrix *

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

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

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TESTAMERICA

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8C050389 W05351 Due 04.18.08

C.O.C. # **I08-022-77**

Page 1 of 1

Collector FLUOR HANFORD	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-022	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2UP1, FEBRUARY 2008	HWF-N-506-1	**Ice Chest No.** SMLY38 **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 ☐
200 Area Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1T330		W	3/4/08	0825	1x20-mL P	Activity Scan	None
B1T330		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

KH35H

DLW 3/4/08

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD			MAR 05 2008 1200	J.G. Hogan Fluor Hanford			MAR 05 2008 1200
J.G. Hogan Fluor Hanford			MAR 05 2008 1440	L LILANE	TAL-R		MAR 05 2008 1440

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

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8C050389 W05351 Due 04-18-08

C.O.C. # **I08-022-68**

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Collector ~~J.G. Hogan~~ Fluor Hanford	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-022	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2UP1, FEBRUARY 2008	HNF-N-506-1	**Ice Chest No.** 3ML461 ~~CRP-06-204~~ **Temp.** 3-5-08
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 ☐
200 Area Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1T326		W	3/4/08	1201	1x20-mL P	Activity Scan	None
B1T326		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

KH35J

3/4/08

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
J.G. Hogan ~~Fluor Hanford~~			1440 MAR 05 2008		LV LANE	TAL-K	1440 MAR 05 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 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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8C050389 W05351 Due 04.18.08

C.O.C. # **I08-022-62**

Page 1 of 1

Collector J.G. Hogan Fluor Hanford	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-022	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2UP1, FEBRUARY 2008	HNF-N-506-11	**Ice Chest No.** GRP-06-044 **Temp.** ~~Smc-46~~ 3-5-08
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**
200 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1T324		W	3/4/08	0931	1x20-mL P	Activity Scan	None
B1T324		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						KH35K	
			3/4/08				

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
J.G. Hogan Fluor Hanford			1200 MAR 05 2008	J.G. Hogan Fluor Hanford			1200 MAR 05 2008
J.G. Hogan Fluor Hanford			1440 MAR 05 2008	LJLANE	TAL-R		1440 MAR 05 2008

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 03.05.08 1440 **GM Screen Result** 2

Client: PGW **SDG #:** W05351 NA[ ] **SAF #:** I08-022 NA [ ]

Work Order Number: J8C050389 **Chain of Custody #** I08-022-62, 68, 77, 56, 76

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: L. Smith **Date:** 03.05.08

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

J8C060304 W05351 DUE 4-21-08 KH50F

C.O.C. # **W08-002-532**

Page 1 of 1

Collector Roy Sickle	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. W08-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, FEBRUARY 2008	Logbook: HNF-N-506-13	**Ice Chest No.** **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1T653		W	3/6/08	1033	1x20-mL P	Activity Scan	None
B1T653		W	↓	↓	1x500-mL P	9223_COLIFORM: Coliform (1)	Na2S2O3 Cool~4C

R. Wall 3/6/08

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Roy Sickle			3/6/08 1155	J. Herrick	J. Herrick		3/6/08 1155
J. Herrick	J. Herrick		3/6/08 1215	LVLANE TAL-R			3/6/08 1215

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

DUE 4-21-08

Date/Time Received: 3-6-08 1215 **GM Screen Result** 0.2K

Client: PGW **SDG #:** W05351 NA[ ] **SAF #:** W08-002 NA [ ]

Work Order Number: J8C060304 **Chain of Custody #** W08-002-532

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:** 3-6-08

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

J8C060372 W05351 KH6EA DUE 4-21-08

C.O.C. # S08-002-28

Page 1 of 1

Collector: Roy Sickle	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S08-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, FEBRUARY 2008	Logbook: HNF-N-506-13	Ice Chest No.: GW-1 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
B1T411		W	3/6/08	0933	1x20-mL P	Activity Scan	None
B1T411		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1T411		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1T411		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

J. Wall 3/6/08

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Roy Sickle			3-6-08 1410		L LANE	TAL-R	3-6-08 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

TESTAMERICA

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8C060372 W05351 DUE 4-21-08 KH6EX

C.O.C. # **S08-002-29**

Page 1 of 1

Collector Roy Sickle	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. S08-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, FEBRUARY 2008	Logbook: HNF-N-506 13	**Ice Chest No.** 6W-1 **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
B1T412		W	3/6/08	0730	1x20-mL P	Activity Scan	None
B1T412		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1T412		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1T412		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

J Wall 3/6/08

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Roy Sickle			3-6-08 1410		LJLANE	TAL-R	3-6-08 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 Liquid	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

DUE 4-21-08

Date/Time Received: 3-6-08 1410 **GM Screen Result** 0.3K

Client: PGW **SDG #:** W05351 NA[ ] **SAF #:** 508-002 NA [ ]

Work Order Number: J8C060372 **Chain of Custody #** 508-002-28,-29

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

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓]
5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 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:** 3-6-08

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

J8C100135 W05351 DUE 4-21-08 KH9XF

C.O.C. # **I08-020-120**

Page 1 of 1

Collector FLUOR HANFORD R.F. CARRIGAN	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-020	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100HR3IAM(1/2), FEBRUARY 2008	HNF-N-506-12	**Ice Chest No.** SNL 461 **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
B1T255		W	3/7/08	0923	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	Cool~4C
B1T255		W	↓	↓	1x20-mL P	Activity Scan	None

3/7/08

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD R.F. CARRIGAN			3/7/08 FEB 07 2008 1HR 1405				3/7/08 14:05
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

DUE 4-21-08

Date/Time Received: 3-7-08 1405 **GM Screen Result** 0.2K

Client: PGW **SDG #:** W05351 NA[ ] **SAF #:** I08-020 NA [ ]

Work Order Number: J8C100135 **Chain of Custody #** I08-020-120

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

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓]
5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 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: _____ **Date:** 3-7-08

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

J8C100139 ~~34~~ W05351 DUE 4-21-08 KH90D

C.O.C. # **S08-012-333**

Page 1 of 1

Collector **Roy Sickle**	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. S08-012	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV, DECEMBER 2007	HNF-N-506-13, #26	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 ☐

All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 08 SAFs into one SDG, not to exceed SDG closure of 14 days.

WSCF: Batch all GW samples submitted into one SDG, daily closure.

FY07 and FY08 samples cannot be in the same SDG.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1RCV2		W	3-7-08	1002	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1RCV2		W	↓	↓	1x20-mL P	Activity Scan	None
B1RCV2		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Roy Sickle			3/7/08 1405	Don Petty	Don Petty		3/7/08 1405
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

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Sample Check-in List DUE 4-21-08

Date/Time Received: 3-7-08 1405 GM Screen Result 0.2 K

Client: PGW SDG #: W0551351 NA[ ] SAF #: 508-012 NA [ ]

Work Order Number: J8C100139 Chain of Custody # 508-012-333

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: RJP Date: 3-7-08

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

J8C100141 W05351 DUE 4-21-08 KH9DN

C.O.C. # **S08-001-157**

Page 1 of 1

Collector Roy Sickle	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. S08-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 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
B1RTN3		W	3-7-08	0805	1x20-mL P	Activity Scan	None
B1RTN3		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1RTN3		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1RTN3		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1RTN3		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Roy Sickle			3/7/08 1405	Dm Petty	Dm Petty		3/7/08 1405
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8C100141 W05351 DUE 4-21-08 KH90P

C.O.C. # S08-001-156

Page 1 of 1

Collector: Roy Sickle	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S08-001	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, JANUARY 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
B1RTN2		W	3-7-08	1147	1x20-mL P	Activity Scan	None
B1RTN2		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1RTN2		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1RTN2		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1RTN2		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Roy Sickle			3/7/08 1405		Don Petty	Don Petty	3/7/08 1405
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
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Sample Check-in List

DUE 4-21-08

Date/Time Received: 3-7-08 1405 **GM Screen Result** 0.2K

Client: PGW **SDG #:** W0535 1 NA[ ] **SAF #:** 508-001 NA [ ]

Work Order Number: J8C100141 **Chain of Custody #** 508-001-156,-157

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:** 3-7-08

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

J8C110314 W05351 DUE 4-25-08 KJD2M

C.O.C. # **I08-026-4**

Page 1 of 1

Collector R. D. Julian	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-026	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100KR4IAM(1/2) MARCH 2008	HWF-W-50641	**Ice Chest No.** SMLC4 **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
B1TJC4		W	3/11/08	1301	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	Cool~4C
B1TJC4		W	↓	↓	1x20-mL P	Activity Scan	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. D. Julian			MAR 11 2008 1520		LJLANE	TAL-R	MAR 11 2008 1520
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TESTAMERICA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

DUE 4-25-08

Date/Time Received: 3-11-08 1520 GM Screen Result 0.2K

Client: PGW SDG #: W05351 NA[ ] SAF #: I08-026 NA [ ]

Work Order Number: J8C110314 Chain of Custody # I08-026-4

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: 3-11-08

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

TESTAMERICA

4/4/2008 8:38:24 AM

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 04/18/2008

Sample Preparation/Analysis

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

Balance Id:1120373922

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,Barcotl

Batch: 8078369 **WATER** **pCi/L** **PM, Quote: SS , 57671**
SEQ Batch, Test: None

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KH168-1-AG J8C050118-2-SAMP 03/03/2008 13:59		AmtRec: VIAL20,8XLP,3X4LP	200.01g,in #Containers: 12	200.01g	UITC19659 03/21/08,pd 06/15/01,r	200			Scr: Alpha: 3.07E-03 uCi/Sa	Beta: 8.73E-04 uCi/Sa
2 KH168-1-AK-X J8C050118-2-DUP 03/03/2008 13:59		AmtRec: VIAL20,8XLP,3X4LP	200.00g,in #Containers: 12	200.00g	UITC19660 03/21/08,pd 06/15/01,r				Scr: Alpha: 3.07E-03 uCi/Sa	Beta: 8.73E-04 uCi/Sa
3 KJR7T-1-AA-B J8C180000-369-BLK 03/03/2008 13:59		AmtRec:	200.03g,in #Containers: 1	200.03g	UITC19661 03/21/08,pd 06/15/01,r				Scr: Alpha:	Beta:
4 KJR7T-1-AC-C J8C180000-369-LCS 03/03/2008 13:59		AmtRec:	200.00g,in #Containers: 1	200.00g	UISG1618 03/20/08,pd 06/15/01,r				Scr: Alpha:	Beta:

Comments:

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

KH1681AG-SAMP Constituent List:

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

KJR7T1AA-BLK:

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

TESTAMERICA

4/4/2008 8:38:25 AM

Sample Preparation/Analysis

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

Balance Id:1120373922

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,Barcotl

AnalyDueDate: 04/18/2008

Batch: 8078369 pCi/L
SEQ Batch, Test: None

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

KJR7T1AC-LCS:
U-232 RDL: pCi/L LCL:20 UCL:105 RPD:20 Uranium RDL: pCi/L LCL:70 UCL:130 RPD:20

KH1681AG-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KJR7T1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KJR7T1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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4/25/2008 8:14:25 AM

ICOC Fraction Transfer/Status Report

ByDate: 4/26/2007, 4/30/2008, Batch: '8078369', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8078369						
AC		Rev1C	Barcotl	4/4/2008 8:42:34 AM		
SC			wagarr	IsBatched	3/18/2008 3:38:15 PM	ICOC_RADCALC v4.8.32
SC			Barcotl	InPrep	4/4/2008 8:42:34 AM	RICH-RC-5016 REVISION 7
SC			Barcotl	Prep1C	4/4/2008 8:43:24 AM	RICH-RC-5016 REVISION 7
SC			AshworthA	Sep1C	4/5/2008 1:37:16 PM	RICH-RC-5086 REV3
SC			AshworthA	Sep2C	4/17/2008 7:54:40 PM	RICH-RC-5039 REV5
SC			DAWKINSO	InCnt1	4/17/2008 10:20:15 PM	RICH-RD-0008 REVISION 4
SC			BlackCL	CalcC	4/18/2008 7:34:25 AM	RICH-RD-0008 REVISION 4
SC			nortonj	Rev1C	4/25/2008 8:14:16 AM	RICH-RC-0002 REV 8
AC			Barcotl	4/4/2008 8:42:55 AM		
AC			Barcotl	4/4/2008 8:43:24 AM		
AC			AshworthA	4/5/2008 1:37:16 PM		
AC			AshworthA	4/17/2008 7:54:40 PM		
AC			DAWKINSO	4/17/2008 10:20:15		
AC			BlackCL	4/18/2008 7:34:25		
AC			nortonj	4/25/2008 8:14:16		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 8

ICOCFractions v4.8.33

TESTAMERICA

4/15/2008 12:55:14 PM

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 04/18/2008 W0535\

Batch: 8078360 WATER pCi/L

SEQ Batch, Test: None

Sample Preparation/Analysis

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

PM, Quote: SS , 57671

Balance Id:1120482733
Pipet #: 245
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,HarrisD Rock 7

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 KH17D-1-AA J8C050121-1-SAMP 03/03/2008 12:23		200.40g,in AmtRec: VIAL20,LP,4LP #Containers: 3		1.5	36.5	50	10A	1413 Scr: Alpha: 5.14E-07 uCi/Sa	4/16 bro Beta: 1.09E-07 uCi/Sa	
2 KH33F-1-AA J8C050386-1-SAMP 03/05/2008 10:05		78.20g,in AmtRec: VIAL20,LP,4LP #Containers: 3			47.5	100	12A	1503 Scr: Alpha: 5.76E-06 uCi/Sa	Beta: 6.53E-07 uCi/Sa	
3 KH335-1-AA J8C050386-2-SAMP 03/05/2008 10:05		65.70g,in AmtRec: VIAL20,LP,4LP #Containers: 3			39.7	200	11A	1643 Scr: Alpha: 6.23E-06 uCi/Sa	Beta: -5.45E-08 uCi/Sa	
4 KH90D-1-AA J8C100139-1-SAMP 03/07/2008 10:02		200.00g,in AmtRec: VIAL20,500MLP,LP #Containers: 3			39.2	50	10B	1413 Scr: Alpha: 2.54E-04 uCi/Sa	Beta: 1.80E-04 uCi/Sa	
5 KH90N-1-AA J8C100141-1-SAMP 03/07/2008 08:05		200.00g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8			0.6		10C	Scr: Alpha: 1.26E-03 uCi/Sa	Beta: 2.27E-03 uCi/Sa	
6 KH90N-1-AG-X J8C100141-1-DUP 03/07/2008 08:05		200.40g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8			0.9		10D	Scr: Alpha: 1.26E-03 uCi/Sa	Beta: 2.27E-03 uCi/Sa	
7 KH90P-1-AA J8C100141-2-SAMP 03/07/2008 11:47		200.20g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8			21.5		10E	Scr: Alpha: -2.70E-05 uCi/Sa	Beta: 1.57E-03 uCi/Sa	

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4/15/2008 12:55:16 PM

Sample Preparation/Analysis

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

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

AnalyDueDate: 04/18/2008

Batch: 8078360 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 KJR6N-1-AA-B J8C180000-360-BLK 03/07/2008 08:05		200.00g,in AmtRec:	#Containers: 1	1.5	1.0	200	11B	1643	4/16/08	
							Scr:	Alpha:		Beta:
9 KJR6N-1-AC-C J8C180000-360-LCS 03/07/2008 08:05		200.30g,in AmtRec:	asd4445 03/13/08,pd 02/09/06,r #Containers: 1		1.1		11C			
							Scr:	Alpha:		Beta:

Comments: PH2.0. Aliquot reduced due to wt screens. DLH 4/15/08

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

KH17D1AA-SAMP Constituent List:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:
KJR6N1AA-BLK:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:
KJR6N1AC-LCS:
Am-241 RDL: pCi/L LCL:70 UCL:130 RPD:20

KH17D1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KJR6N1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KJR6N1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TAL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2 ISV - Insufficient Volume for Analysis WO Cnt: 9
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.32

4/18/2008 12:01:53 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/19/2007, 4/23/2008, Batch: '8078360', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
8078360							
AC			Rev1C	HarrisD	4/15/2008 12:50:07		
SC				wagarr	IsBatched	3/18/2008 3:38:14 PM	ICOC_RADCALC v4.8.32
SC				HarrisD	InPrep	4/15/2008 12:50:07 PM	RICH-RC-5016 Revision 7
SC				HarrisD	Prep1C	4/15/2008 12:55:16 PM	RICH-RC-5014 REVISION 7
SC				BockJ	InPrep2	4/15/2008 1:44:25 PM	RICH-RC-5014 REVISION 7
SC				BlackCL	Prep2C	4/16/2008 1:04:21 PM	RICH-RC-5014 REVISION 7
SC				BlackCL	InCnt1	4/16/2008 1:08:37 PM	RICH-RD-0003 REVISION 5
SC				DAWKINSO	CalcC	4/16/2008 9:06:36 PM	RICH-RD-0003 REVISION 5
SC				antonsonl	Rev1C	4/18/2008 12:01:46 PM	RICH-RC-0002 REV 8
AC				HarrisD	4/15/2008 12:55:16		
AC				BockJ	4/15/2008 1:44:25 PM		
AC				BlackCL	4/16/2008 1:04:21 PM		
AC				BlackCL	4/16/2008 1:08:37 PM		
AC				DAWKINSO	4/16/2008 9:06:36 PM		
AC				antonsonl	4/18/2008 12:01:46		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.33

TESTAMERICA

4/15/2008 1:02:29 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 04/18/2008 W05351

Batch: 8078361 **WATER** **pCi/L**
SEQ Batch, Test: None

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

PM, Quote: SS , 57671

Balance Id:1120482733
Pipet #: 245

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD | Bock J.

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KH17D-1-AC J8C050121-1-SAMP 03/03/2008 12:23		200.10g,in AmtRec: VIAL20,LP,4LP #Containers: 3		1.5	63.2	100	26A	1486	4/16/08	Scr: Alpha: 5.14E-07 uCi/Sa Beta: 1.09E-07 uCi/Sa
2 KH33F-1-AC J8C050386-1-SAMP 03/05/2008 10:05		200.00g,in AmtRec: VIAL20,LP,4LP #Containers: 3			216.4		26B			Scr: Alpha: 5.76E-06 uCi/Sa Beta: 6.53E-07 uCi/Sa
3 KH33F-1-AE-X J8C050386-1-DUP 03/05/2008 10:05		200.20g,in AmtRec: VIAL20,LP,4LP #Containers: 3			206.8		26C			Scr: Alpha: 5.76E-06 uCi/Sa Beta: 6.53E-07 uCi/Sa
4 KH335-1-AC J8C050386-2-SAMP 03/05/2008 10:05		200.20g,in AmtRec: VIAL20,LP,4LP #Containers: 3			203.4		26D			Scr: Alpha: 6.23E-06 uCi/Sa Beta: -5.45E-08 uCi/Sa
5 KH90D-1-AC J8C100139-1-SAMP 03/07/2008 10:02		200.30g,in AmtRec: VIAL20,500MLP,LP #Containers: 3			69.7		27A			Scr: Alpha: 2.54E-04 uCi/Sa Beta: 1.80E-04 uCi/Sa
6 KH90N-1-AC J8C100141-1-SAMP 03/07/2008 08:05		200.00g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8			0.4		27B			Scr: Alpha: 1.26E-03 uCi/Sa Beta: 2.27E-03 uCi/Sa
7 KH90P-1-AC J8C100141-2-SAMP 03/07/2008 11:47		200.20g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8			34.2		27D			Scr: Alpha: -2.70E-05 uCi/Sa Beta: 1.57E-03 uCi/Sa

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TESTAMERICA

4/15/2008 1:02:31 PM

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: 04/18/2008

Batch: 8078361 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 KJR6W-1-AA-B J8C180000-361-BLK 03/05/2008 10:05	AmtRec:	199.90g,in	#Containers: 1	1.5	0.4	100	28A	1456	4/16/08	Scr: Alpha: Beta:
9 KJR6W-1-AC-C J8C180000-361-LCS 03/05/2008 10:05	AmtRec:	200.40g,in	besb3234 02/18/08,pd 10/11/06,r #Containers: 1		0.5		28B			Scr: Alpha: Beta:

Comments: PH20 DW 4/15/08

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

KH17D1AC-SAMP Constituent List:
BETA RDL:4 pCi/L LCL: UCL: RPD:
KJR6W1AA-BLK:
BETA RDL:4 pCi/L LCL: UCL: RPD:
KJR6W1AC-LCS:
Sr-90 RDL: pCi/L LCL:70 UCL:130 RPD:20

KH17D1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KJR6W1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KJR6W1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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4/18/2008 11:54:45 AM

ICOC Fraction Transfer/Status Report

ByDate: 4/19/2007, 4/23/2008, Batch: '8078361', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8078361						
AC		Rev1C	HarrisD	4/15/2008 12:57:01		
SC			wagarr	IsBatched	3/18/2008 3:38:15 PM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	4/15/2008 12:57:01 PM	RICH-RC-5016 Revision 7
SC			HarrisD	Prep1C	4/15/2008 1:02:32 PM	RICH-RC-5014 REVISION 7
SC			BockJ	InPrep2	4/15/2008 1:44:33 PM	RICH-RC-5014 REVISION 7
SC			BlackCL	Prep2C	4/16/2008 1:04:27 PM	RICH-RC-5014 REVISION 7
SC			BlackCL	InCnt1	4/16/2008 1:08:42 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	4/16/2008 9:06:28 PM	RICH-RD-0003 REVISION 5
SC			antonsonl	Rev1C	4/18/2008 11:54:36 AM	RICH-RC-0002 REV 8
AC			HarrisD	4/15/2008 1:02:32 PM		
AC			BockJ	4/15/2008 1:44:33 PM		
AC			BlackCL	4/16/2008 1:04:27 PM		
AC			BlackCL	4/16/2008 1:08:42 PM		
AC			DAWKINSO	4/16/2008 9:06:28 PM		
AC			antonsonl	4/18/2008 11:54:36		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 7

ICOCFractions v4.8.33

TESTAMERICA

4/16/2008 2:42:39 PM

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 04/18/2008

Sample Preparation/Analysis

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

Balance Id:1120373922,E32905

Pipet #: _____

Sep1 DT/Tm Tech: 04/09/2008 16:52,ManisD

Sep2 DT/Tm Tech: 04/16/2008 09:49,ManisD

Prep Tech: ManisD

Batch: 8078364 **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:
1 **KH168-1-AF** J8C050118-2-SAMP		1000.02g,in	SRTB15985 03/25/08,pd 01/23/08 r		1.5	23.7	100	SA SA	0607 0757	4/17/08 4/18/08	
~~04/09/2008 16:52;s1, 04/16/2008~~											
03/03/2008 13:59		AmtRec: VIAL20,8XLP,3X4LP	#Containers: 12					Scr:	Alpha: 3.07E-03 uCi/Sa	Beta: 8.73E-04 uCi/Sa	
2 **KH6EA-1-AD** J8C060372-1-SAMP		1000.01g,in	SRTB15986 03/25/08,pd 01/23/08 r		1.5	23.6	100	SB SB	0608 0757	4/17/08 4/18/08	
~~04/09/2008 16:52;s1, 04/16/2008~~											
03/06/2008 09:33		AmtRec: VIAL20,3XLP,3X4LP	#Containers: 7					Scr:	Alpha: 1.49E-03 uCi/Sa	Beta: 1.14E-03 uCi/Sa	
3 **KH6EA-1-AE-X** J8C060372-1-DUP		1000.01g,in	SRTB15987 03/25/08,pd 01/23/08 r		1.5	23.7	100	SC SC	0606 0757	4/17/08 4/18/08	
~~04/09/2008 16:52;s1, 04/16/2008~~											
03/06/2008 09:33		AmtRec: VIAL20,3XLP,3X4LP	#Containers: 7					Scr:	Alpha: 1.49E-03 uCi/Sa	Beta: 1.14E-03 uCi/Sa	
4 **KH6EX-1-AD** J8C060372-2-SAMP		1000.01g,in	SRTB15988 03/25/08,pd 01/23/08 r		1.5	22.5	100	SD SD	0607 0757	4/17/08 4/18/08	
~~04/09/2008 16:52;s1, 04/16/2008~~											
03/06/2008 07:30		AmtRec: VIAL20,3XLP,3X4LP	#Containers: 7					Scr:	Alpha: 3.92E-03 uCi/Sa	Beta: -1.80E-03 uCi/Sa	

TESTAMERICA

4/16/2008 2:42:40 PM

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 04/18/2008

Sample Preparation/Analysis

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

Balance Id:1120373922,1120373922,1120

Pipet #: _____

Sep1 DT/Tm Tech: 04/09/2008 16:52,ManisD

Sep2 DT/Tm Tech: 04/16/2008 09:49,ManisD

Prep Tech: ,ManisD

Batch: 8078364 **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:
5 KH90N-1-AF J8C100141-1-SAMP		1000.00g,in	SRTB15989 03/25/08,pd 01/22/08,r		1.5	23.6	100	6A 6A	0648 0757	4/17/08 4/18/08	
						~~04/09/2008 16:52;s1, 04/16/2008~~					
03/07/2008 08:05		AmtRec: VIAL20,4XLP,3X4LP		#Containers: 8				Scr:	Alpha: 1.26E-03 uCi/Sa		Beta: 2.27E-03 uCi/Sa
6 KH90P-1-AF J8C100141-2-SAMP		1000.02g,in	SRTB15990 03/25/08,pd 01/22/08,r		1.5	23.5	100	6B 6B	0648 0757	4/17/08 4/18/08	
						~~04/09/2008 16:52;s1, 04/16/2008~~					
03/07/2008 11:47		AmtRec: VIAL20,4XLP,3X4LP		#Containers: 8				Scr:	Alpha: -2.70E-05 uCi/Sa		Beta: 1.57E-03 uCi/Sa
7 KJR64-1-AA-B J8C180000-364-BLK		1000.01g,in	SRTB15991 03/25/08,pd 01/22/08,r		1.5	23.1	100	6C 6C	0648 0757	4/17/08 4/18/08	
						~~04/09/2008 16:52;s1, 04/16/2008~~					
03/06/2008 09:33		AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:
8 KJR64-1-AC-C J8C180000-364-LCS		1000.01g,in	SRSG1457 02/26/08,pd 05/22/07,r		1.5	23	100	6D 6D	0648 0757	4/17/08 4/18/08	
						~~04/09/2008 16:52;s1, 04/16/2008~~					
03/06/2008 09:33		AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:

4/16/2008 2:42:40 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:1120373922,1120373922,1120

Pipet #: ___

AnalyDueDate: 04/18/2008

Sep1 DT/Tm Tech: 04/09/2008 16:52,ManisD

Batch: 8078364 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech: 04/16/2008 09:49,ManisD

Prep Tech: ,ManisD

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

Comments:

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

KH1681AF-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

KJR641AA-BLK:

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

KJR641AC-LCS:

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

KH1681AF-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KJR641AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KJR641AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

4/25/2008 8:15:51 AM

ICOC Fraction Transfer/Status Report

ByDate: 4/26/2007, 4/30/2008, Batch: '8078364', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8078364						
AC		**Rev1C**	**ManisD**	4/9/2008 5:51:20 PM		
SC			wagarr	IsBatched	3/18/2008 3:38:15 PM	ICOC_RADCALC v4.8.32
SC			ManisD	Sep1C	4/9/2008 5:51:20 PM	RICH-RC-5006 REV 7
SC			DAWKINSO	InCnt1	4/9/2008 5:55:42 PM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	InCnt2	4/16/2008 3:53:09 PM	RICH-RD-0003 REVISION 5
SC			ClarkR	CalcC	4/18/2008 10:28:19 AM	RICH-RD-0003 REVISION 5
SC			nortonj	Rev1C	4/25/2008 8:15:41 AM	RICH-RC-0002 REV 8
AC			**DAWKINSO**	4/9/2008 5:55:42 PM		
AC			**DAWKINSO**	4/16/2008 3:53:09 PM		
AC			**ClarkR**	4/18/2008 10:28:19		
AC			**nortonj**	4/25/2008 8:15:41		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.33

TESTAMERICA

4/15/2008 3:37:13 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: 04/18/2008 W05351

Sep1 DT/Tm Tech:

Batch: 8078362 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ManisD,HarrisD (Back)

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 KH168-1-AC J8C050118-2-SAMP 03/03/2008 13:59		2000.20g,in AmtRec: VIAL20,8XLP,3X4LP #Containers: 12			100mL	200	G15	1428	4/17/08 MC	
							Scr:	Alpha: 3.07E-03 uCi/Sa	Beta: 8.73E-04 uCi/Sa	
2 KH17D-1-AD J8C050121-1-SAMP 03/03/2008 12:23		2000.10g,in AmtRec: VIAL20,LP,4LP #Containers: 3					G5	1429		
							Scr:	Alpha: 5.14E-07 uCi/Sa	Beta: 1.09E-07 uCi/Sa	
3 KH17D-1-AE-X J8C050121-1-DUP 03/03/2008 12:23		AmtRec: VIAL20,LP,4LP #Containers: 3					~~G11~~ 4/17/08 MC G15	1800	4/17/08 MC	
							Scr:	Alpha: 5.14E-07 uCi/Sa	Beta: 1.09E-07 uCi/Sa	
4 KH33F-1-AD J8C050386-1-SAMP 03/05/2008 10:05		2000.20g,in AmtRec: VIAL20,LP,4LP #Containers: 3					G11	1430	4/17/08 MC	
							Scr:	Alpha: 5.76E-06 uCi/Sa	Beta: 6.53E-07 uCi/Sa	
5 KH335-1-AD J8C050386-2-SAMP 03/05/2008 10:05		2000.40g,in AmtRec: VIAL20,LP,4LP #Containers: 3					G14	1431		
							Scr:	Alpha: 6.23E-06 uCi/Sa	Beta: -5.45E-08 uCi/Sa	
6 KH6EA-1-AA J8C060372-1-SAMP 03/06/2008 09:33		2000.40g,in AmtRec: VIAL20,3XLP,3X4LP #Containers: 7					G7	1431		
							Scr:	Alpha: 1.49E-03 uCi/Sa	Beta: 1.14E-03 uCi/Sa	
7 KH6EX-1-AA J8C060372-2-SAMP 03/06/2008 07:30		1999.80g,in AmtRec: VIAL20,3XLP,3X4LP #Containers: 7					G10	1432		
							Scr:	Alpha: 3.92E-03 uCi/Sa	Beta: -1.80E-03 uCi/Sa	

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

TESTAMERICA

4/15/2008 3:37:15 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: 04/18/2008

Sep1 DT/Tm Tech:

Batch: 8078362 WATER pCi/L **PM, Quote: SS , 57671**

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:
8 KH90N-1-AD J8C100141-1-SAMP 03/07/2008 08:05		2000.00g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8			100 mls	200	G13	1433	4/17/orne	
							Scr:	Alpha: 1.26E-03 uCi/Sa	Beta: 2.27E-03 uCi/Sa	
9 KH90P-1-AD J8C100141-2-SAMP 03/07/2008 11:47		2000.20g,in AmtRec: VIAL20,4XLP,3X4LP #Containers: 8					G6	1433		
							Scr:	Alpha: -2.70E-05 uCi/Sa	Beta: 1.57E-03 uCi/Sa	
10 KJR60-1-AA-B J8C180000-362-BLK 03/03/2008 12:23		2000.40g,in AmtRec: #Containers: 1					G8	1434		
							Scr:	Alpha:	Beta:	
11 KJR60-1-AC-C J8C180000-362-LCS 03/03/2008 12:23		1999.90g,in AmtRec: #Containers: 1	QCAG1462 04/02/08,pd 07/15/00,r				G5	1802	4/17/orne	
							Scr:	Alpha:	Beta:	

Comments: KH17D-SAMP "Comments: ISV for dup. Please recount on a different detector. DLH 4/15/08"

PH c20 DLH 4/15/08

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

KH1681AC-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:

KJR601AA-BLK:

4/15/2008 3:37:16 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #:

AnalyDueDate: 04/18/2008

Sep1 DT/Tm Tech:

Batch: 8078362 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:

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:

KJR601AC-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						

KH1681AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KJR601AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KJR601AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

4/25/2008 8:09:49 AM

ICOC Fraction Transfer/Status Report

ByDate: 4/26/2007, 4/30/2008, Batch: '8078362', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8078362						
AC		Rev1C	HarrisD	4/15/2008 3:24:43 PM		
SC			wagarr	IsBatched	3/18/2008 3:38:15 PM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	4/15/2008 3:24:43 PM	RICH-RC-5016 Revision 7
SC			HarrisD	Prep1C	4/15/2008 3:37:16 PM	RICH-RC-5017 REVISION 6
SC			BockJ	InPrep2	4/15/2008 4:01:40 PM	RICH-RC-5017 REVISION 6
SC			BockJ	Prep2C	4/17/2008 10:52:57 AM	RICH-RC-5017 REVISION 6
SC			ClarkR	InCnt1	4/17/2008 11:03:09 AM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	CalcC	4/17/2008 6:56:14 PM	RICH-RD-0007 REVISION 6
SC			nortonj	Rev1C	4/25/2008 8:09:33 AM	RICH-RC-0002 REV 8
AC			HarrisD	4/15/2008 3:37:16 PM		
AC			BockJ	4/15/2008 4:01:40 PM		
AC			BockJ	4/17/2008 10:52:57		
AC			ClarkR	4/17/2008 11:03:09		
AC			DAWKINSO	4/17/2008 6:56:14 PM		
AC			nortonj	4/25/2008 8:09:33		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.33

TESTAMERICA

4/8/2008 2:25:12 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 04/18/2008 W0535

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

Balance Id:1120482733

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD

Batch: 8078363 **WATER** **pCi/L**
SEQ Batch, Test: None

PM, Quote: SS , 57671

129

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 KH166-1-AA J8C050118-1-SAMP 03/03/2008 14:55		3836.00g,in AmtRec: VIAL20,2X4LP	ITA7063 03/26/08 #Containers: 3		38.6	100	L2	1519	4/15/08 AC	Scr: Alpha: 3.12E-03 uCi/Sa Beta: 1.04E-03 uCi/Sa
2 KH168-1-AD J8C050118-2-SAMP 03/03/2008 13:59		3890.20g,in AmtRec: VIAL20,8XLP,3X4LP	ITA7064 03/26/08 #Containers: 12		38.1		L4	1520		Scr: Alpha: 3.07E-03 uCi/Sa Beta: 8.73E-04 uCi/Sa
3 KH34N-1-AA J8C050388-1-SAMP 03/04/2008 10:50		3873.80g,in AmtRec: VIAL20,2X4LP	ITA7065 03/26/08 #Containers: 3		37.7		L5	1521		Scr: Alpha: -8.07E-05 uCi/Sa Beta: 2.88E-03 uCi/Sa
4 KH34N-1-AC-X J8C050388-1-DUP 03/04/2008 10:50		3886.00g,in AmtRec: VIAL20,2X4LP	ITA7066 03/26/08 #Containers: 3		38.1		L4	1709	4/15/08 AC	Scr: Alpha: -8.07E-05 uCi/Sa Beta: 2.88E-03 uCi/Sa
5 KH35E-1-AA J8C050389-1-SAMP 03/04/2008 11:03		3823.00g,in AmtRec: 20ML,2X4LP	ITA7067 03/26/08 #Containers: 3		39.4		L5	1710		Scr: Alpha: 8.59E-04 uCi/Sa Beta: 1.04E-03 uCi/Sa
6 KH35G-1-AA J8C050389-2-SAMP 03/04/2008 11:45		3845.70g,in AmtRec: 20ML,2X4LP	ITA7068 03/26/08 #Containers: 3		37.3		L2	1711		Scr: Alpha: 6.93E-04 uCi/Sa Beta: 1.83E-03 uCi/Sa
7 KH35H-1-AA J8C050389-3-SAMP 03/04/2008 08:25		3915.50g,in AmtRec: 20ML,2X4LP	ITA7069 03/26/08 #Containers: 3		36.8		L2	1855		Scr: Alpha: 1.29E-03 uCi/Sa Beta: -1.01E-07 uCi/Sa

TESTAMERICA

4/8/2008 2:25:14 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733

Pipet #:

AnalyDueDate: 04/18/2008

Sep1 DT/Tm Tech:

Batch: 8078363 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SS , 57671

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:
8 KH35J-1-AA J8C050389-4-SAMP 03/04/2008 12:01		3879.20g,in AmtRec: 20ML,2X4LP	ITA7070 03/26/08 #Containers: 3		36.1	100	L4	900	4/15/08	
							Scr:	Alpha: 5.54E-04 uCi/Sa	Beta: 2.44E-03 uCi/Sa	
9 KH35K-1-AA J8C050389-5-SAMP 03/04/2008 09:31		3886.00g,in AmtRec: 20ML,2X4LP	ITA7071 03/26/08 #Containers: 3		37.1		L5			
							Scr:	Alpha: 1.33E-03 uCi/Sa	Beta: 1.66E-03 uCi/Sa	
10 KH6EA-1-AC J8C060372-1-SAMP 03/06/2008 09:33		3878.60g,in AmtRec: VIAL20,3XLP,3X4LP	ITA7072 03/26/08 #Containers: 7		36.4		L2	2229		
							Scr:	Alpha: 1.49E-03 uCi/Sa	Beta: 1.14E-03 uCi/Sa	
11 KH6EX-1-AC J8C060372-2-SAMP 03/06/2008 07:30		3861.80g,in AmtRec: VIAL20,3XLP,3X4LP	ITA7073 03/26/08 #Containers: 7		37.3		L4	2229		
							Scr:	Alpha: 3.92E-03 uCi/Sa	Beta: -1.80E-03 uCi/Sa	
12 KH90N-1-AE J8C100141-1-SAMP 03/07/2008 08:05		3864.30g,in AmtRec: VIAL20,4XLP,3X4LP	ITA7074 03/26/08 #Containers: 8		36.9		L5	2230		
							Scr:	Alpha: 1.26E-03 uCi/Sa	Beta: 2.27E-03 uCi/Sa	
13 KH90P-1-AE J8C100141-2-SAMP 03/07/2008 11:47		3867.30g,in AmtRec: VIAL20,4XLP,3X4LP	ITA7075 03/26/08 #Containers: 8		37.5		L2	2044		
							Scr:	Alpha: -2.70E-05 uCi/Sa	Beta: 1.57E-03 uCi/Sa	
14 KJR62-1-AA-B J8C180000-363-BLK 03/04/2008 10:50		3997.80g,in AmtRec:	ITA7076 03/26/08 #Containers: 1		34.4		L4	2045		
							Scr:	Alpha:	Beta:	

TAL Richland
Richland Wa.

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

ISV - Insufficient Volume for Analysis

WO Cnt: 14
Prep_SamplePrep v4.8.32

4/8/2008 2:25:15 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #:

AnalyDueDate: 04/18/2008

Sep1 DT/Tm Tech:

Batch: 8078363 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:
15 KJR62-1-AC-C J8C180000-363-LCS		3973.60g,in	ISD0835 03/03/08		36.1	100	L5	2046	4/15/08 CN	

03/04/2008 10:50 AmtRec: #Containers: 1 Scr: Alpha: Beta:

Comments: DLH 4/8/08

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

KH1661AA-SAMP Constituent List:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
KJR621AA-BLK:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
KJR621AC-LCS:
I-129 RDL:5 pCi/L LCL:70 UCL:130 RPD:20
KH1661AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KJR621AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KJR621AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

4/16/2008 2:32:23 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/17/2007, 4/21/2008, Batch: '8078363', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8078363						
AC		Rev1C	HarrisD	4/8/2008 1:13:11 PM		
SC			wagarr	IsBatched	3/18/2008 3:38:15 PM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	4/8/2008 1:13:11 PM	RICH-RC-5014 Revision 7
SC			HarrisD	Prep1C	4/8/2008 2:25:22 PM	RICH-RC-5017 REVISION 6
SC			BostedD	InPrep2	4/9/2008 8:45:09 AM	RICHRC5025 REVISION 4
SC			BostedD	Prep2C	4/15/2008 1:22:38 PM	RICHRC5025 REVISION 4
SC			ClarkR	InCnt1	4/15/2008 1:37:19 PM	RICH-RD-0007 REVISION 6
SC			BlackCL	CalcC	4/16/2008 8:34:17 AM	RICH-RD-0007 REVISION 6
SC			nortonj	Rev1C	4/16/2008 2:31:54 PM	RICH-RC-0002 REV 8
AC			HarrisD	4/8/2008 2:25:22 PM		
AC			BostedD	4/9/2008 8:45:09 AM		
AC			BostedD	4/15/2008 1:22:38 PM		
AC			ClarkR	4/15/2008 1:37:19 PM		
AC			BlackCL	4/16/2008 8:34:17		
AC			nortonj	4/16/2008 2:31:54 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.33

TESTAMERICA

4/4/2008 7:57:43 AM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 04/21/2008

Sep1 DT/Tm Tech:

Batch: 8078365 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,Barcotl

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KH90D-1-AD J8C100139-1-SAMP 03/07/2008 10:02		AmtRec: VIAL20,500MLP,LP	125.02g,in #Containers: 3	125.02g		60		Scr:	Alpha: 2.54E-04 uCi/Sa	Beta: 1.80E-04 uCi/Sa
2 KH90D-1-AE-S J8C100139-1-MS 03/07/2008 10:02		AmtRec: VIAL20,500MLP,LP	125.01g,in #Containers: 3	125.01g	TCSG2010 03/20/08,pd 01/10/06,r			Scr:	Alpha: 2.54E-04 uCi/Sa	Beta: 1.80E-04 uCi/Sa
3 KH90D-1-AF-X J8C100139-1-DUP 03/07/2008 10:02		AmtRec: VIAL20,500MLP,LP	125.02g,in #Containers: 3	125.02g				Scr:	Alpha: 2.54E-04 uCi/Sa	Beta: 1.80E-04 uCi/Sa
4 KJR68-1-AA-B J8C180000-365-BLK 03/07/2008 10:02		AmtRec:	125.03g,in #Containers: 1	125.03g				Scr:	Alpha:	Beta:
5 KJR68-1-AC-C J8C180000-365-LCS 03/07/2008 10:02		AmtRec:	125.00g,in #Containers: 1	125.00g	TCSE2219 03/20/08,pd 01/10/06,r			Scr:	Alpha:	Beta:
6 KJR68-1-AD-BN J8C180000-365-IBLK 03/07/2008 10:02		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:

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TESTAMERICA

4/4/2008 7:57:44 AM

Sample Preparation/Analysis

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

AnalyDueDate: 04/21/2008

Batch: 8078365 pCi/L
SEQ Batch, Test: None

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

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

Comments:

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

KH90D1AD-SAMP Constituent List:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
KH90D1AE-MS Constituent List:

KJR681AA-BLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
KJR681AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
KJR681AD-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:

KH90D1AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KH90D1AE-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KJR681AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KJR681AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KJR681AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

4/25/2008 8:13:01 AM

ICOC Fraction Transfer/Status Report

ByDate: 4/26/2007, 4/30/2008, Batch: '8078365', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8078365						
AC		**Rev1C**	**ManisD**	4/15/2008 1:12:37 PM		
SC			wagarr	IsBatched	3/18/2008 3:38:15 PM	ICOC_RADCALC v4.8.32
SC			ManisD	Sep1C	4/15/2008 1:12:37 PM	RICH-RC-5065 REV 6
SC			ClarkR	InCnt1	4/15/2008 1:25:05 PM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	4/16/2008 8:29:12 AM	RICH-RD-0001 REVISION 4
SC			nortonj	Rev1C	4/25/2008 8:12:54 AM	RICH-RC-0002 REV 8
AC			**ClarkR**	4/15/2008 1:25:05 PM		
AC			**BlackCL**	4/16/2008 8:29:12		
AC			**nortonj**	4/25/2008 8:12:54		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.33

TESTAMERICA

4/4/2008 7:31:48 AM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 04/18/2008

Sep1 DT/Tm Tech:

Batch: 8078366 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	Tracer Yield	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KH168-1-AE J8C050118-2-SAMP 03/03/2008 13:59		200.01g,in AmtRec: VIAL20,8XLP,3X4LP	SETA0255 02/06/08 #Containers: 12		50		Scr:	Alpha: 3.07E-03 uCi/Sa	Beta: 8.73E-04 uCi/Sa
2 KH168-1-AH-X J8C050118-2-DUP 03/03/2008 13:59		200.02g,in AmtRec: VIAL20,8XLP,3X4LP	SETA0256 02/06/08 #Containers: 12				Scr:	Alpha: 3.07E-03 uCi/Sa	Beta: 8.73E-04 uCi/Sa
3 KJR7C-1-AA-B J8C180000-366-BLK 03/03/2008 13:59		200.03g,in AmtRec:	SETA0257 02/06/08 #Containers: 1				Scr:	Alpha:	Beta:
4 KJR7C-1-AC-BN J8C180000-366-IBLK 03/03/2008 13:59		200.00g,in AmtRec:	SETA0258 02/06/08 #Containers: 1				Scr:	Alpha:	Beta:

Comments:

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

KH1681AE-SAMP Constituent List:

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

KJR7C1AA-BLK:

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

KJR7C1AC-IBLK:

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

KH1681AE-SAMP Calc Info:

4/4/2008 7:31:50 AM

Sample Preparation/Analysis

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

Balance Id:1120373922

Pipet #: _____

AnalyDueDate: 04/18/2008

Sep1 DT/Tm Tech:

Batch: 8078366 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,Barcotl

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

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

KJR7C1AA-BLK:

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

KJR7C1AC-IBLK:

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

Approved By _____ Date: _____

4/29/2008 1:44:23 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/30/2007, 5/4/2008, Batch: '8078366', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8078366						
AC		**Rev1C**	**ManisD**	4/9/2008 5:12:55 PM		
SC			wagarr	IsBatched	3/18/2008 3:38:15 PM	ICOC_RADCALC v4.8.32
SC			ManisD	Sep1C	4/9/2008 5:12:55 PM	RICH-RC-5043 REV 3
SC			DAWKINSO	InCnt1	4/9/2008 6:01:17 PM	RICH-RD-0001 REVISION 4
SC			DAWKINSO	InCnt1	4/11/2008 12:03:56 PM	RICH-RD-0001 REVISION 4
SC			nortonj	Rev1C	4/29/2008 1:44:15 PM	RICH-RC-0002 REV 8
AC			**DAWKINSO**	4/9/2008 6:01:17 PM		
AC			**DAWKINSO**	4/11/2008 12:03:56		
AC			**nortonj**	4/29/2008 1:44:15 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.33

TESTAMERICA

3/18/2008 3:34:22 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 04/18/2008 WO535

Batch: 8078367 WATER pCi/L

PM, Quote: SS , 57671

SEQ Batch, Test: None

Balance Id: N/A
Pipet #:
Sep1 DT/Tm Tech: 3-19-08 pm
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KH168-1-AA J8C050118-2-SAMP 03/03/2008 13:59	AmtRec: VIAL20,8XLP,3X4LP	#Containers: 12				Scr:	Alpha: 3.07E-03 uCi/Sa	Beta: 8.73E-04 uCi/Sa
2 KH168-1-AJ-X J8C050118-2-DUP 03/03/2008 13:59	AmtRec: VIAL20,8XLP,3X4LP	#Containers: 12				Scr:	Alpha: 3.07E-03 uCi/Sa	Beta: 8.73E-04 uCi/Sa
3 KJR7D-1-AA-B J8C180000-367-BLK 03/03/2008 13:59	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
4 KJR7D-1-AC-C J8C180000-367-LCS 03/03/2008 13:59	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
5 KJR7D-1-AD-B J8C180000-367-BLK 03/03/2008 13:59	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments:

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

KH1681AA-SAMP Constituent List:
C-14 RDL:2.00E+02 pCi/L LCL:70 UCL:130 RPD:20

TAL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 5
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added ICOC v4 8.32

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3/18/2008 3:34:22 PM

Sample Preparation/Analysis

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

AnalyDueDate: 04/18/2008

Batch: 8078367 pCi/L
SEQ Batch, Test: None

Balance Id: N/A
Pipet #:
Sep1 DT/Tm Tech: 3-19-08 pm
Sep2 DT/Tm Tech:
Prep Tech:

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

KJR7D1AA-BLK:

KJR7D1AC-LCS:

KJR7D1AD-BLK:

KH1681AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KJR7D1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KJR7D1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KJR7D1AD-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

3/25/2008 5:45:20 PM

ICOC Fraction Transfer/Status Report

ByDate: 3/26/2007, 3/30/2008, Batch: '8078367', User: *ALL Order By DateTimeAccepting

Batch	Work Ord	CurStatus	Accepting			Comments
8078367						
AC		Rev1C	McDowellD	3/19/2008 11:42:00		
SC			wagarr	IsBatched	3/18/2008 3:38:15 PM	ICOC_RADCALC v4.8.32
SC			McDowellD	InSep1	3/19/2008 11:42:00 AM	RICH-RC-5022 REVISION 3
SC			McDowellD	Sep1C	3/20/2008 3:18:39 PM	RICH-RC-5022 REVISION 3
SC			DAWKINSO	InCnt1	3/20/2008 4:18:47 PM	RICH-RD-0007 REVISION 6
SC			BlackCL	CalcC	3/21/2008 1:10:57 PM	RICH-RD-0001 REVISION 4
SC			antonsonl	Rev1C	3/25/2008 5:45:08 PM	RICH-RC-0002 REV 8
AC			McDowellD	3/20/2008 3:18:39 PM		
AC			DAWKINSO	3/20/2008 4:18:47 PM		
AC			BlackCL	3/21/2008 1:10:57 PM		
AC			antonsonl	3/25/2008 5:45:08 PM		

AC: Accepting Entry; SC: Status Change

TESTAMERICA

3/18/2008 3:34:22 PM

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 04/21/2008 W05351

Batch: 8078370 WATER

SEQ Batch, Test: None

Sample Preparation/Analysis

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

PM, Quote: SS , 57671

Balance Id:

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KH50F-1-AA J8C060304-1-SAMP 03/06/2008 10:33	AmtRec: VIAL20,500MLP	#Containers: 2				Scr:	Alpha: -7.86E-06 uCi/Sa	Beta: 7.61E-05 uCi/Sa
2 KH50F-1-AC-X J8C060304-1-DUP 03/06/2008 10:33	AmtRec: VIAL20,500MLP	#Containers: 2				Scr:	Alpha: -7.86E-06 uCi/Sa	Beta: 7.61E-05 uCi/Sa
3 KJR7V-1-AA-B J8C180000-370-BLK 03/06/2008 10:33	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
4 KJR7V-1-AC-C J8C180000-370-LCS 03/06/2008 10:33	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments:

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

KH50F1AA-SAMP Constituent List:

KJR7V1AA-BLK:

KJR7V1AC-LCS:

KH50F1AA-SAMP Calc Info:

3/18/2008 3:34:23 PM

Sample Preparation/Analysis

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

Balance Id:

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

AnalyDueDate: 04/21/2008

Batch: 8078370
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:

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

KJR7V1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KJR7V1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TESTAMERICA

3/10/2008 2:06:38 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 04/21/2008 W05351

Batch: 8070255 **WATER** **mg/L** **PM, Quote: SS , 57671**
SEQ Batch, Test: None

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

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KH9XF-1-AA J8C100135-1-SAMP 03/07/2008 09:23		AmtRec: VIAL20,500G	#Containers: 2			Scr:	Alpha:	Beta:
2 KH9XF-1-AC-S J8C100135-1-MS 03/07/2008 09:23		AmtRec: VIAL20,500G	#Containers: 2			Scr:	Alpha:	Beta:
3 KH9XF-1-AD-X J8C100135-1-DUP 03/07/2008 09:23		AmtRec: VIAL20,500G	#Containers: 2			Scr:	Alpha:	Beta:
4 KH9XF-1-AE-S J8C100135-1-MS 03/07/2008 09:23		AmtRec: VIAL20,500G	#Containers: 2			Scr:	Alpha:	Beta:
5 KH952-1-AA-B J8C100000-255-BLK 03/07/2008 09:23		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 KH952-1-AC-C J8C100000-255-LCS 03/07/2008 09:23		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

TAL Richland
Richland Wa.

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

ISV - Insufficient Volume for Analysis

WO Cnt: **6**
ICOC v4.8.32

3/10/2008 2:06:38 PM

Sample Preparation/Analysis

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

AnalyDueDate: 04/21/2008

Batch: 8070255 mg/L
SEQ Batch, Test: None

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

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

Comments:

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

KH9XF1AA-SAMP Constituent List:

KH9XF1AC-MS Constituent List:

KH9XF1AE-MS:

KH9521AA-BLK:

KH9521AC-LCS:

KH9XF1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KH9XF1AC-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KH9XF1AE-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KH9521AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KH9521AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TESTAMERICA

3/18/2008 3:34:23 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 04/18/2008 W05351

Batch: 8078372 WATER mg/L

PM, Quote: SS , 57671

SEQ Batch, Test: None

Balance Id:

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KH32V-1-AA J8C050384-1-SAMP 03/04/2008 10:52	AmtRec: VIAL20,500G	#Containers: 2				Scr:	Alpha:	Beta:
2 KH32V-1-AC-S J8C050384-1-MS 03/04/2008 10:52	AmtRec: VIAL20,500G	#Containers: 2				Scr:	Alpha:	Beta:
3 KH32V-1-AD-X J8C050384-1-DUP 03/04/2008 10:52	AmtRec: VIAL20,500G	#Containers: 2				Scr:	Alpha:	Beta:
4 KH32V-1-AE-S J8C050384-1-MS 03/04/2008 10:52	AmtRec: VIAL20,500G	#Containers: 2				Scr:	Alpha:	Beta:
5 KJR7X-1-AA-B J8C180000-372-BLK 03/04/2008 10:52	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
6 KJR7X-1-AC-C J8C180000-372-LCS 03/04/2008 10:52	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

TAL Richland
Richland Wa.

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

Page 1

ISV - Insufficient Volume for Analysis

WO Cnt: 6

ICOC v4.8.32

3/18/2008 3:34:23 PM

Sample Preparation/Analysis

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

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

AnalyDueDate: 04/18/2008

Batch: 8078372 mg/L
SEQ Batch, Test: None

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

Comments:

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

KH32V1AA-SAMP Constituent List:
HEXCHROME RDL:0.002 mg/L LCL:85 UCL:115 RPD:20
KH32V1AC-MS Constituent List:

KH32V1AE-MS:

KJR7X1AA-BLK:

KJR7X1AC-LCS:

KH32V1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KH32V1AC-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KH32V1AE-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KJR7X1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KJR7X1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TESTAMERICA

3/18/2008 3:34:23 PM

Sample Preparation/Analysis

Balance Id:

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 04/25/2008 W05351

5I CLIENT: HANFORD

Sep1 DT/Tm Tech:

Batch: 8078373 WATER mg/L

PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KJD2M-1-AA J8C110314-1-SAMP 03/11/2008 13:01	AmtRec: VIAL20,500G	#Containers: 2				Scr:	Alpha:	Beta:
2 KJD2M-1-AC-S J8C110314-1-MS 03/11/2008 13:01	AmtRec: VIAL20,500G	#Containers: 2				Scr:	Alpha:	Beta:
3 KJD2M-1-AD-X J8C110314-1-DUP 03/11/2008 13:01	AmtRec: VIAL20,500G	#Containers: 2				Scr:	Alpha:	Beta:
4 KJD2M-1-AE-S J8C110314-1-MS 03/11/2008 13:01	AmtRec: VIAL20,500G	#Containers: 2				Scr:	Alpha:	Beta:
5 KJR70-1-AA-B J8C180000-373-BLK 03/11/2008 13:01	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
6 KJR70-1-AC-C J8C180000-373-LCS 03/11/2008 13:01	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

3/18/2008 3:34:23 PM

Sample Preparation/Analysis

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

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

AnalyDueDate: 04/25/2008

Batch: 8078373 mg/L
SEQ Batch, Test: None

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

Comments:

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

KJD2M1AA-SAMP Constituent List:
HEXCHROME RDL:0.002 mg/L LCL:85 UCL:115 RPD:20
KJD2M1AC-MS Constituent List:

KJD2M1AE-MS:

KJR701AA-BLK:

KJR701AC-LCS:

KJD2M1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KJD2M1AC-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KJD2M1AE-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KJR701AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KJR701AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____