Analytical Data Package Prepared For

Fluor Hanford

RECEIVED
JUL 28 2008
EDMC

Radiochemical Analysis By

TestAmerica TARL

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

Data Package Contains _____ Pages

Report Nbr: 39239

RECEIVED JUNE 11, 2008

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05369	W08-004	B1V115	J8D040137-1	KKPT91AA	9KKPT910	8113304
		B1V117	J8D040137-2	KKPVG1AA	9KKPVG10	8113304
	S08-004	B1TWY0	J8D040140-1	KKPVQ1AA	9KKPVQ10	8113291
		B1TWY0	J8D040140-1	KKPVQ1AC	9KKPVQ10	8113287
		B1TWY1	J8D040140-2	KKPV51AA	9KKPV510	8113291
		B1TWY1	J8D040140-2	KKPV51AC	9KKPV510	8113287
		B1TWB4	J8D040146-1	KKPX72AA	9KKPX720	8126482
		B1TWW2	J8D040146-2	KKPX91AA	9KKPX910	8113291
		B1TWW2	J8D040146-2	KKPX91AC	9KKPX910	8113287
	I08-032	B1TVX0	J8D040148-1	KKP0H1AC	9KKP0H10	8113287
		B1TVX0	J8D040148-1	KKP0H2AA	9KKP0H20	8126482
	S08-004	B1TWV4	J8D040153-1	KKP0Q1AA	9KKP0Q10	8113291
		B1TWV4	J8D040153-1	KKP0Q1AC	9KKP0Q10	8113287
		B1TWV8	J8D040153-2	KKP0W1AA	9KKP0W10	8113291
		B1TWV8	J8D040153-2	KKP0W1AC	9KKP0W10	8113287

Comments:

0078514

Report Nbr: 39239

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05369	S08-004	B1TWM4	J8D080110-1	KKVQ11AA	9KKVQ110	8113300
		B1TWM4	J8D080110-1	KKVQ11AC	9KKVQ110	8113301
		B1TWM4	J8D080110-1	KKVQ11AD	9KKVQ110	8113288
		B1TWM4	J8D080110-1	KKVQ11AE	9KKVQ110	8113291
		B1TWM8	J8D080110-2	KKVQ71AA	9KKVQ710	8113300
		B1TWM8	J8D080110-2	KKVQ71AC	9KKVQ710	8113301
		B1TWM8	J8D080110-2	KKVQ71AD	9KKVQ710	8113288
		B1TWM8	J8D080110-2	KKVQ71AE	9KKVQ710	8113291
		B1TWN2	J8D080110-3	KKVRA1AA	9KKVRA10	8113288
		B1TWN2	J8D080110-3	KKVRA1AC	9KKVRA10	8113291
		B1TX22	J8D080115-1	KKVRT1AA	9KKVRT10	8113291
		B1TX22	J8D080115-1	KKVRT1AC	9KKVRT10	8113287
		B1TX23	J8D080115-2	KKVR41AA	9KKVR410	8113291
		B1TX23	J8D080115-2	KKVR41AC	9KKVR410	8113287
	A08-004	B1TVL7	J8D090321-1	KK1JT1AA	9KK1JT10	8113291
	I08-034	B1TW73	J8D140189-1	KK9LD1AA	9KK9LD10	8106324
		B1TW73	J8D140189-1	KK9LD1AC	9KK9LDCW	8106324
		B1TW73	J8D140189-1	KK9LD1AD	9KK9LDDW	8106324
		B1TW73	J8D140189-1	KK9LD1AE	9KK9LDER	8106324
	S08-004	B1TX18	J8D150322-1	KLC3P1AA	9KLC3P10	8113288
		B1TX18	J8D150322-1	KLC3P1AC	9KLC3P10	8113291
		B1TX18	J8D150322-1	KLC3P1AD	9KLC3P10	8113287
		B1TX18	J8D150322-1	KLC3P1AE	9KLC3P10	8113302
		B1TX14	J8D150322-2	KLC391AA	9KLC3910	8113291
		B1TX10	J8D150322-3	KLC4E1AA	9KLC4E10	8113291
	I08-027	B1TJL1	J8D170306-1	KLHVD1AA	9KLHVD10	8113287

Comments:

Report Nbr: 39239

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05369	I08-027	B1TJL1	J8D170306-1	KLHVD2AA	9KLHVD20	8149170

Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

June 10, 2008

Attention: Steve Trent

SAF Number	:	W08-004, S08-004, I08-032, A08-004, I08-034, I08-027
Date SDG Closed	:	April 17, 2008
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05369
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between April 3, 2008 and April 17, 2008 twenty water samples were received at STL Richland (STLR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Fluor Hanford specific IDs:

PGW ID#	STLR ID#	DATE OF RECEIPT	MATRIX
B1V115	KKPT9	4/3/08	WATER
B1V117	KKPVG	4/3/08	WATER
B1TWY0	KKPVQ	4/3/08	WATER
B1TWY1	KKPV5	4/3/08	WATER
B1TWB4	KKPX7	4/3/08	WATER
B1TWW2	KKPX9	4/3/08	WATER
B1TVX0	KKP0H	4/3/08	WATER
B1TWV4	KKP0Q	4/3/08	WATER
B1TWV8	KKP0W	4/3/08	WATER
B1TWM4	KKVQ1	4/7/08	WATER
B1TWM8	KKVQ7	4/7/08	WATER
B1TWN2	KKVRA	4/7/08	WATER
B1TX22	KKVRT	4/7/08	WATER

B1TX23	KKVR4	4/7/08	WATER
B1TVL7	KK1JT	4/7/08	WATER
B1TW73	KK9LD	4/14/08	WATER
B1TX18	KLC3P	4/15/08	WATER
B1TX14	KLC39	4/15/08	WATER
B1TX10	KLC4E	4/15/08	WATER
B1TJL1	KLHVD	4/17/08	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
Technetium-99 by method RICH-RC-5078
Carbon-14 by method RICH-RC-5022
Chemical Analysis
Hexavalent Chromium by EPA method 7196A

IV. Quality Control

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

QC and sample results are reported in the same units.

V. Comments

Alpha Spectroscopy

Uranium 234, 235 and 238 by method RICH-RC-5039:

The LCS, batch blank, sample and sample duplicate (B1TX18) results are within contractual requirements.

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:

The LCS had a low recovery on the first count. The recount LCS was acceptable. Except as noted, the LCS, batch blank, samples and sample duplicate (B1TWM4) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:

The LCS, batch blank, samples and sample duplicate (B1TWM8) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006

The tracer yield for the duplicate (B1TJL1 DUP) was low. The waste fraction from the analysis was subjected to analysis in the hope of recovering the lost tracer, that attempt was not successful. The duplicate (B1TJL1 DUP) was re-analyzed with acceptable results. Except as noted, the LCS, batch blank, samples and sample duplicate (B1TJL1) results are within contractual requirements.

Gamma Spectroscopy

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

There was insufficient volume for a duplicate. Sample B1TX18 was recounted on a different detector for the duplicate (B1TX18 DUP). Except as noted, the LCS, batch blank, samples and sample duplicate (B1TX18) results are within contractual requirements.

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

The LCS, batch blank, samples and sample duplicate (B1TVL7) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by method RICH-RC-5078:

The LCS, batch blank, samples, sample duplicate (B1V115), and sample matrix spike (B1V117) results are within contractual requirements.

Carbon-14 by method RICH-RC-5022:

The level of activity detected in the duplicate (B1TWB4 DUP) did not agree with the parent sample (B1TWB4). The bench-top work sheet and the liquid scintillation counting sheet list the same samples in differing order, when the data is examined according to the order found on the bench-top work sheet, the sample and duplicate have a relative percent discrepancy of only 0.4%. The sample identities were corrected in data review. Except as noted, the LCS, batch blank, samples and sample duplicate (B1TWB4) results are within contractual requirements.

Fluor Hanford
June 10, 2008

Chemical Analysis

Hexavalent Chromium by EPA method 7196A

The LCS, batch blank, samples, sample duplicate (B1TW73), sample matrix spike (B1TW73), and matrix spike duplicate (B1TW73) results are within contractual requirements.

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

Reviewed and approved:

Sandra Seger
Project Manager

Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	**Isotope(s)**	**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.

6/10/2008 2:46:01 PM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 39239 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.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:
9KK1JT10	B1TVL7		MW6-SBB-A1	A08-004	W05369					04/08/2008 12:35

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8113291	I-129L	15046-84-1	9.66E-01	pCi/L	3.3E-01	3.3E-01	U	5.51E-01	93.2	I129LL_SEP_LEPS	3.8963E+00	L	05/21/2008 05:27	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:
9KKP0H10	B1TVX0		MW6-SBB-A1	I08-032	W05369					04/01/2008 09:22

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8113287	SR-90	10098-97-2	-1.43E-01	pCi/L	1.6E-01	1.7E-01	U	4.20E-01	77.5	SRISO_SEP_PRE	1.00E+00	L	05/23/2008 05:46	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:
9KKP0H20	B1TVX0		MW6-SBB-A1	I08-032	W05369					04/01/2008 08:39

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8126482	C-14	14762-75-5	1.89E+03	pCi/L	2.2E+01	7.3E+01		8.32E+00	100.0	C14_LSC	2.00E-01	L	05/06/2008 20:58	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KKP0Q10	B1TWV4		MW6-SBB-A1	S08-004	W05369					04/03/2008 10:32

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8113291	I-129L	15046-84-1	4.85E-01	pCi/L	2.1E-01	2.1E-01	U	4.20E-01	94.1	I129LL_SEP_LEPS	3.9049E+00	L	05/20/2008 20:54	I
8113287	SR-90	10098-97-2	2.63E+00	pCi/L	4.0E-01	5.6E-01		4.82E-01	70.9	SRISO_SEP_PRE	1.00E+00	L	05/23/2008 05:46	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:
9KKP0W10	B1TWV8		MW6-SBB-A1	S08-004	W05369					04/03/2008 11:44

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8113291	I-129L	15046-84-1	3.50E+00	pCi/L	5.7E-01	5.7E-01		2.85E-01	94.1	I129LL_SEP_LEPS	3.9063E+00	L	05/20/2008 20:55	I
8113287	SR-90	10098-97-2	1.79E-01	pCi/L	3.0E-01	3.1E-01	U	6.44E-01	79.3	SRISO_SEP_PRE	1.00E+00	L	05/23/2008 05:46	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:
9KKPT910	B1V115		MW6-SBB-A1	W08-004	W05369					04/03/2008 09:02

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8113304	TC-99	14133-76-7	1.04E+01	pCi/L	4.6E+00	6.6E+00		1.03E+01	100.0	TC99_SEP_LSC	1.2502E-01	L	05/09/2008 06:16	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KKPV510	B1TWY1		MW6-SBB-A1	S08-004	W05369					04/03/2008 09:29

TestAmerica

rptFeadRadSummaryEdd v3.48

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

1

6/10/2008 2:46:01 PM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 39239 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8113291	I-129L	15046-84-1	2.48E+00	pCi/L	5.3E-01	5.3E-01		3.36E-01	93.0	I129LL_SEP_LEPS	3.8455E+00	L	05/20/2008 19:09	I
8113287	SR-90	10098-97-2	8.06E-02	pCi/L	2.5E-01	2.5E-01	U	5.33E-01	77.9	SRISO_SEP_PRE	1.00E+00	L	05/23/2008 05:46	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:
9KKPVG10	B1V117		MW6-SBB-A1	W08-004	W05369					04/03/2008 10:02

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8113304	TC-99	14133-76-7	1.48E+01	pCi/L	4.7E+00	6.8E+00		1.03E+01	100.0	TC99_SEP_LSC	1.25E-01	L	05/09/2008 06:16	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KKPVQ10	B1TWY0		MW6-SBB-A1	S08-004	W05369					04/03/2008 09:29

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8113291	I-129L	15046-84-1	2.22E+00	pCi/L	5.6E-01	5.6E-01		3.30E-01	94.6	I129LL_SEP_LEPS	3.8585E+00	L	05/20/2008 19:08	I
8113287	SR-90	10098-97-2	1.07E-01	pCi/L	2.0E-01	2.0E-01	U	4.31E-01	74.3	SRISO_SEP_PRE	1.00E+00	L	05/23/2008 05:45	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KKPX720	B1TWB4		MW6-SBB-A1	S08-004	W05369					04/01/2008 09:22

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8126482	C-14	14762-75-5	6.74E+03	pCi/L	4.1E+01	2.5E+02		8.32E+00	100.0	C14_LSC	2.00E-01	L	05/06/2008 19:33	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:
9KKPX910	B1TWW2		MW6-SBB-A1	S08-004	W05369					04/02/2008 12:35

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8113291	I-129L	15046-84-1	8.99E+00	pCi/L	1.2E+00	1.2E+00		4.11E-01	93.2	I129LL_SEP_LEPS	3.8612E+00	L	05/20/2008 19:10	I
8113287	SR-90	10098-97-2	1.34E+00	pCi/L	3.9E-01	4.5E-01		6.86E-01	66.6	SRISO_SEP_PRE	1.00E+00	L	05/23/2008 05:46	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:
9KKVQ110	B1TWM4		MW6-SBB-A1	S08-004	W05369					04/07/2008 11:54

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8113300	ALPHA	12587-46-1	5.98E+00	pCi/L	2.1E+00	2.4E+00		1.49E+00	100.0	9310_ALPHABETA	2.004E-01	L	05/12/2008 15:18	I
8113301	BETA	12587-47-2	1.95E+01	pCi/L	2.5E+00	3.6E+00		3.07E+00	100.0	9310_ALPHABETA	2.001E-01	L	05/12/2008 15:33	I
8113288	BE-7	13966-02-4	1.41E+01	pCi/L	2.0E+01	2.0E+01	U	3.73E+01		GAMMALL_GS	2.00E+00	L	05/12/2008 11:17	I
8113288	CO-60	10198-40-0	9.65E-01	pCi/L	1.9E+00	1.9E+00	U	3.71E+00		GAMMALL_GS	2.00E+00	L	05/12/2008 11:17	I
8113288	CS-134	13967-70-9	-3.29E-01	pCi/L	1.8E+00	1.8E+00	U	3.26E+00		GAMMALL_GS	2.00E+00	L	05/12/2008 11:17	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.

6/10/2008 2:46:01 PM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 39239 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

8113288	CS-137	10045-97-3	-1.88E-01	pCi/L	1.7E+00	1.7E+00	U	2.99E+00		GAMMALL_GS	2.00E+00	L	05/12/2008	11:17	I
8113288	EU-152	14683-23-9	2.09E+00	pCi/L	4.2E+00	4.2E+00	U	7.72E+00		GAMMALL_GS	2.00E+00	L	05/12/2008	11:17	I
8113288	EU-154	15585-10-1	-6.68E+00	pCi/L	5.1E+00	5.1E+00	U	7.47E+00		GAMMALL_GS	2.00E+00	L	05/12/2008	11:17	I
8113288	EU-155	14391-16-3	1.29E+00	pCi/L	3.3E+00	3.3E+00	U	5.82E+00		GAMMALL_GS	2.00E+00	L	05/12/2008	11:17	I
8113288	K-40	13966-00-2	-6.14E+00	pCi/L	4.5E+01	4.5E+01	U	9.41E+01		GAMMALL_GS	2.00E+00	L	05/12/2008	11:17	I
8113288	RU-106	13967-48-1	7.44E+00	pCi/L	1.7E+01	1.7E+01	U	3.14E+01		GAMMALL_GS	2.00E+00	L	05/12/2008	11:17	I
8113288	SB-125	14234-35-6	-4.60E+00	pCi/L	4.7E+00	4.7E+00	U	7.51E+00		GAMMALL_GS	2.00E+00	L	05/12/2008	11:17	I
8113291	I-129L	15046-84-1	1.57E+00	pCi/L	3.5E-01	3.5E-01		2.64E-01	94.9	I129LL_SEP_LEPS	3.8594E+00	L	05/20/2008	20:56	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KKVQ710	B1TWM8		MW6-SBB-A1	S08-004	W05369					04/07/2008 10:13

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8113300	ALPHA	12587-46-1	2.97E+00	pCi/L	1.6E+00	1.7E+00		1.81E+00	100.0	9310_ALPHABETA	2.003E-01	L	05/12/2008 15:18	I
8113301	BETA	12587-47-2	5.03E+01	pCi/L	3.5E+00	7.4E+00		2.85E+00	100.0	9310_ALPHABETA	2.001E-01	L	05/12/2008 15:33	I
8113288	BE-7	13966-02-4	1.13E+00	pCi/L	1.1E+01	1.1E+01	U	1.96E+01		GAMMALL_GS	2.00E+00	L	05/12/2008 11:18	I
8113288	CO-60	10198-40-0	-7.57E-01	pCi/L	1.2E+00	1.2E+00	U	2.10E+00		GAMMALL_GS	2.00E+00	L	05/12/2008 11:18	I
8113288	CS-134	13967-70-9	2.61E-01	pCi/L	1.0E+00	1.0E+00	U	1.98E+00		GAMMALL_GS	2.00E+00	L	05/12/2008 11:18	I
8113288	CS-137	10045-97-3	1.45E-01	pCi/L	1.1E+00	1.1E+00	U	2.02E+00		GAMMALL_GS	2.00E+00	L	05/12/2008 11:18	I
8113288	EU-152	14683-23-9	2.07E+00	pCi/L	2.6E+00	2.6E+00	U	4.80E+00		GAMMALL_GS	2.00E+00	L	05/12/2008 11:18	I
8113288	EU-154	15585-10-1	-1.11E+00	pCi/L	3.3E+00	3.3E+00	U	5.95E+00		GAMMALL_GS	2.00E+00	L	05/12/2008 11:18	I
8113288	EU-155	14391-16-3	1.92E-01	pCi/L	2.2E+00	2.2E+00	U	3.88E+00		GAMMALL_GS	2.00E+00	L	05/12/2008 11:18	I
8113288	K-40	13966-00-2	-1.30E+01	pCi/L	2.4E+01	2.4E+01	U	4.79E+01		GAMMALL_GS	2.00E+00	L	05/12/2008 11:18	I
8113288	RU-106	13967-48-1	9.67E+00	pCi/L	9.9E+00	9.9E+00	U	1.92E+01		GAMMALL_GS	2.00E+00	L	05/12/2008 11:18	I
8113288	SB-125	14234-35-6	8.01E-02	pCi/L	2.6E+00	2.6E+00	U	4.68E+00		GAMMALL_GS	2.00E+00	L	05/12/2008 11:18	I
8113291	I-129L	15046-84-1	2.75E+00	pCi/L	4.8E-01	4.8E-01	U	8.12E-01	90.8	I129LL_SEP_LEPS	3.8642E+00	L	05/20/2008 22:40	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:
9KKVR410	B1TX23		MW6-SBB-A1	S08-004	W05369					04/07/2008 08:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8113291	I-129L	15046-84-1	-1.71E-02	pCi/L	1.2E-01	1.2E-01	U	2.20E-01	91.4	I129LL_SEP_LEPS	3.8901E+00	L	05/21/2008 05:26	I
8113287	SR-90	10098-97-2	4.46E-02	pCi/L	1.4E-01	2.0E-01	U	4.31E-01	85.9	SRISO_SEP_PRE	1.00E+00	L	05/23/2008 05:46	I

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

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

6/10/2008 2:46:01 PM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 39239 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

9KKVRA10 B1TWN2 MW6-SBB-A1 S08-004 W05369 04/07/2008 09:33

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8113288	BE-7	13966-02-4	2.53E+01	pCi/L	2.4E+01	2.4E+01	U	4.47E+01		GAMMALL_GS	2.00E+00	L	05/12/2008 11:19	I
8113288	CO-60	10198-40-0	-6.72E-01	pCi/L	2.4E+00	2.4E+00	U	4.12E+00		GAMMALL_GS	2.00E+00	L	05/12/2008 11:19	I
8113288	CS-134	13967-70-9	1.07E+00	pCi/L	2.4E+00	2.4E+00	U	4.40E+00		GAMMALL_GS	2.00E+00	L	05/12/2008 11:19	I
8113288	CS-137	10045-97-3	4.27E-01	pCi/L	2.2E+00	2.2E+00	U	3.88E+00		GAMMALL_GS	2.00E+00	L	05/12/2008 11:19	I
8113288	EU-152	14683-23-9	-1.90E+00	pCi/L	5.5E+00	5.5E+00	U	9.41E+00		GAMMALL_GS	2.00E+00	L	05/12/2008 11:19	I
8113288	EU-154	15585-10-1	-2.36E+00	pCi/L	6.1E+00	6.1E+00	U	1.04E+01		GAMMALL_GS	2.00E+00	L	05/12/2008 11:19	I
8113288	EU-155	14391-16-3	2.71E+00	pCi/L	4.1E+00	4.1E+00	U	7.18E+00		GAMMALL_GS	2.00E+00	L	05/12/2008 11:19	I
8113288	K-40	13966-00-2	1.20E+01	pCi/L	5.0E+01	5.0E+01	U	1.06E+02		GAMMALL_GS	2.00E+00	L	05/12/2008 11:19	I
8113288	RU-106	13967-48-1	-1.25E+01	pCi/L	1.9E+01	1.9E+01	U	3.14E+01		GAMMALL_GS	2.00E+00	L	05/12/2008 11:19	I
8113288	SB-125	14234-35-6	3.94E+00	pCi/L	5.3E+00	5.3E+00	U	9.76E+00		GAMMALL_GS	2.00E+00	L	05/12/2008 11:19	I
8113291	I-129L	15046-84-1	1.07E+00	pCi/L	3.2E-01	3.2E-01	U	5.57E-01	92.7	I129LL_SEP_LEPS	3.8907E+00	L	05/20/2008 22:41	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:
9KKVRT10	B1TX22		MW6-SBB-A1	S08-004	W05369					04/07/2008 11:02

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8113291	I-129L	15046-84-1	3.50E+00	pCi/L	5.8E-01	5.8E-01		2.89E-01	92.7	I129LL_SEP_LEPS	3.9008E+00	L	05/20/2008 22:42	I
8113287	SR-90	10098-97-2	-1.05E-01	pCi/L	2.9E-01	2.9E-01	U	6.31E-01	76.0	SRISO_SEP_PRE	1.00E+00	L	05/23/2008 05:46	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:
9KLC3910	B1TX14		MW6-SBB-A1	S08-004	W05369					04/15/2008 10:44

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8113291	I-129L	15046-84-1	-7.06E-02	pCi/L	1.4E-01	1.4E-01	U	2.35E-01	93.0	I129LL_SEP_LEPS	3.9217E+00	L	05/21/2008 07:17	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:
9KLC3P10	B1TX18		MW6-SBB-A1	S08-004	W05369					04/15/2008 09:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8113288	BE-7	13966-02-4	-2.41E-01	pCi/L	1.7E+01	1.7E+01	U	2.96E+01		GAMMALL_GS	2.00E+00	L	05/12/2008 11:19	I
8113288	CO-60	10198-40-0	-1.43E+00	pCi/L	2.1E+00	2.1E+00	U	3.35E+00		GAMMALL_GS	2.00E+00	L	05/12/2008 11:19	I
8113288	CS-134	13967-70-9	-2.13E-01	pCi/L	1.7E+00	1.7E+00	U	3.18E+00		GAMMALL_GS	2.00E+00	L	05/12/2008 11:19	I
8113288	CS-137	10045-97-3	-4.52E-01	pCi/L	1.5E+00	1.5E+00	U	2.66E+00		GAMMALL_GS	2.00E+00	L	05/12/2008 11:19	I
8113288	EU-152	14683-23-9	5.18E+00	pCi/L	4.3E+00	4.3E+00	U	8.05E+00		GAMMALL_GS	2.00E+00	L	05/12/2008 11:19	I
8113288	EU-154	15585-10-1	2.42E-01	pCi/L	5.1E+00	5.1E+00	U	9.57E+00		GAMMALL_GS	2.00E+00	L	05/12/2008 11:19	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.

6/10/2008 2:46:01 PM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 39239 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

8113288	EU-155	14391-16-3	-1.90E+00	pCi/L	3.6E+00	3.6E+00	U	5.88E+00		GAMMALL_GS	2.00E+00	L	05/12/2008	11:19	I
8113288	K-40	13966-00-2	-6.60E+01	pCi/L	3.9E+01	3.9E+01	U	7.64E+01		GAMMALL_GS	2.00E+00	L	05/12/2008	11:19	I
8113288	RU-106	13967-48-1	1.11E+00	pCi/L	1.6E+01	1.6E+01	U	2.82E+01		GAMMALL_GS	2.00E+00	L	05/12/2008	11:19	I
8113288	SB-125	14234-35-6	5.89E-01	pCi/L	4.0E+00	4.0E+00	U	7.24E+00		GAMMALL_GS	2.00E+00	L	05/12/2008	11:19	I
8113291	I-129L	15046-84-1	3.52E-02	pCi/L	1.3E-01	1.3E-01	U	2.37E-01	93.0	I129LL_SEP_LEPS	3.9029E+00	L	05/21/2008	07:15	I
8113287	SR-90	10098-97-2	1.67E-01	pCi/L	2.8E-01	2.8E-01	U	5.80E-01	73.2	SRISO_SEP_PRE	1.00E+00	L	05/23/2008	05:46	I
8113302	U-234	13966-29-5	8.46E-02	pCi/L	1.1E-01	1.1E-01	U	1.45E-01	97.7	UISO_PLATE_AEA	2.0001E-01	L	05/07/2008	19:21	I
8113302	U-235	15117-96-1	5.44E-02	pCi/L	8.6E-02	8.7E-02	U	1.45E-01	97.7	UISO_PLATE_AEA	2.0001E-01	L	05/07/2008	19:21	I
8113302	U-238	U-238	-6.07E-03	pCi/L	6.7E-02	6.7E-02	U	2.36E-01	97.7	UISO_PLATE_AEA	2.0001E-01	L	05/07/2008	19:21	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:
9KLC4E10	B1TX10		MW6-SBB-A1	S08-004	W05369					04/15/2008 11:18

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8113291	I-129L	15046-84-1	1.93E-02	pCi/L	1.2E-01	1.2E-01	U	2.26E-01	95.1	I129LL_SEP_LEPS	3.9085E+00	L	05/21/2008 07:18	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:
9KLHVD10	B1TJL1		MW6-SBB-A1	I08-027	W05369					04/17/2008 10:01

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8113287	SR-90	10098-97-2	1.70E+02	pCi/L	2.7E+00	6.1E+01		7.71E-01	64.6	SRISO_SEP_PRE	1.00E+00	L	05/23/2008 05:46	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:
9KLHVD20	B1TJL1		MW6-SBB-A1	I08-027	W05369	DUP				04/17/2008 10:01

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8149170	SR-90	10098-97-2	1.63E+02	pCi/L	2.9E+00	2.4E+01		6.90E-01	63.6	SRISO_SEP_PRE	1.0002E+00	L	06/07/2008 07:34	I

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

TestAmerica

Tuesday, June 10, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

Lab Sample Id:	KLQMN1AB	**Sdg/Rept Nbr:**	W05369 39239	**Collection Date:**	04/17/2008 10:01
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	04/17/2008

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
8113287	SR-90	6.04E-02	pCi/L	2.0E-01	U	4.28E-01	84.2		SRISO_SEP_P	1.00E+00	05/23/2008				D
BLK	10098-97-2			1.6E-01						L	05:46				

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.

1

Tuesday, June 10, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

Lab Sample Id: KLQMQ1AB **Sdg/Rept Nbr:** W05369 39239 **Collection Date:** 04/15/2008 09:45

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 04/15/2008

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
8113288	BE-7	3.06E+00	pCi/L	1.3E+01	U	2.32E+01			GAMMALL_GS	2.00E+00	05/12/2008				D
BLK	13966-02-4			1.3E+01						L	11:19				
8113288	CO-60	4.20E-01	pCi/L	1.2E+00	U	2.29E+00			GAMMALL_GS	2.00E+00	05/12/2008				D
BLK	10198-40-0			1.2E+00						L	11:19				
8113288	CS-134	8.50E-03	pCi/L	1.3E+00	U	2.40E+00			GAMMALL_GS	2.00E+00	05/12/2008				D
BLK	13967-70-9			1.3E+00						L	11:19				
8113288	CS-137	1.00E+00	pCi/L	1.2E+00	U	2.36E+00			GAMMALL_GS	2.00E+00	05/12/2008				D
BLK	10045-97-3			1.2E+00						L	11:19				
8113288	EU-152	1.30E+00	pCi/L	3.2E+00	U	5.87E+00			GAMMALL_GS	2.00E+00	05/12/2008				D
BLK	14683-23-9			3.2E+00						L	11:19				
8113288	EU-154	1.34E+00	pCi/L	3.8E+00	U	7.26E+00			GAMMALL_GS	2.00E+00	05/12/2008				D
BLK	15585-10-1			3.8E+00						L	11:19				
8113288	EU-155	9.93E-01	pCi/L	2.6E+00	U	4.53E+00			GAMMALL_GS	2.00E+00	05/12/2008				D
BLK	14391-16-3			2.6E+00						L	11:19				
8113288	K-40	-1.41E+00	pCi/L	2.0E+01	U	3.80E+01			GAMMALL_GS	2.00E+00	05/12/2008				D
BLK	13966-00-2			2.0E+01						L	11:19				
8113288	RU-106	-1.16E+00	pCi/L	1.2E+01	U	2.11E+01			GAMMALL_GS	2.00E+00	05/12/2008				D
BLK	13967-48-1			1.2E+01						L	11:19				
8113288	SB-125	-1.46E-01	pCi/L	3.2E+00	U	5.58E+00			GAMMALL_GS	2.00E+00	05/12/2008				D
BLK	14234-35-6			3.2E+00						L	11:19				

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.

Tuesday, June 10, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

Lab Sample Id:	KLQMX1AB	**Sdg/Rept Nbr:**	W05369	39239	**Collection Date:**	04/08/2008 12:35
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:**	04/09/2008

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
8113291	I-129L	2.85E-02	pCi/L	1.3E-01	U	2.41E-01	95.9		I129LL_SEP_L	3.9133E+00	05/21/2008				D
BLK	15046-84-1			1.3E-01						L	09:24				

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

TestAmerica

Tuesday, June 10, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

Lab Sample Id:	KLQN31AB	**Sdg/Rept Nbr:**	W05369 39239	**Collection Date:**	04/07/2008 11:54
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	04/07/2008

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
8113300	ALPHA	5.24E-01	pCi/L	5.6E-01	U	9.37E-01	100.0		9310_ALPHAB	2.004E-01	05/12/2008				D
BLK	12587-46-1			5.5E-01						L	15:18				

Tuesday, June 10, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

Lab Sample Id: KLQN71AB **Sdg/Rept Nbr:** W05369 39239 **Collection Date:** 04/07/2008 10:13

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 04/07/2008

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
8113301	BETA	7.42E-01	pCi/L	1.2E+00	U	2.45E+00	100.0		9310_ALPHAB	2.002E-01	05/12/2008				D
BLK	12587-47-2			1.2E+00						L	15:33				

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.

Tuesday, June 10, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

Lab Sample Id: KLQN91AB **Sdg/Rept Nbr:** W05369 39239 **Collection Date:** 04/15/2008 09:45

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 04/15/2008

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
8113302	U-234	-3.60E-02	pCi/L	6.7E-02	U	2.34E-01	104.6		UISO_PLATE_	2.00E-01	05/07/2008				D
BLK	13966-29-5			6.7E-02						L	19:22				
8113302	U-235	1.80E-02	pCi/L	6.2E-02	U	1.69E-01	104.6		UISO_PLATE_	2.00E-01	05/07/2008				D
BLK	15117-96-1			6.2E-02						L	19:22				
8113302	U-238	-3.00E-02	pCi/L	6.6E-02	U	2.20E-01	104.6		UISO_PLATE_	2.00E-01	05/07/2008				D
BLK	U-238			6.6E-02						L	19:22				

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.

Tuesday, June 10, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

Lab Sample Id:	KLQPF1AB	**Sdg/Rept Nbr:**	W05369	39239	**Collection Date:** 04/03/2008 09:02
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 04/03/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								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
8113304	TC-99	-8.05E-01	pCi/L	6.0E+00	U	1.03E+01	100.0		TC99_SEP_LS	1.2502E-01	05/09/2008				D
BLK	14133-76-7			4.2E+00						L	06:16				

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

Tuesday, June 10, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

Lab Sample Id:	KMKV41AB	**Sdg/Rept Nbr:**	W05369	39239	**Collection Date:** 04/01/2008 09:22
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 04/03/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8126482	C-14	-2.96E+00	pCi/L	4.0E+00	U	8.32E+00	100.0		C14_LSC	2.00E-01	05/06/2008				D
BLK	14762-75-5			3.3E+00						L	18:08				

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

TestAmerica

Tuesday, June 10, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

Lab Sample Id:	KNX4A1AB	**Sdg/Rept Nbr:**	W05369	39239	**Collection Date:** 04/17/2008 10:01
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 04/17/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8149170	SR-90	1.11E-01	pCi/L	2.9E-01	U	6.28E-01	80.4		SRISO_SEP_P	1.0005E+00	06/07/2008				D
BLK	10098-97-2			2.8E-01						L	07:34				

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.

Tuesday, June 10, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

Lab Sample Id:	KLQMN1CS	**Sdg/Rept Nbr:**	W05369	39239	**Collection Date:**	04/17/2008 10:01
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:**	04/17/2008

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
8113287	SR-90	1.62E+01	pCi/L	2.5E+00		4.99E-01	76.2	1.32E+01	SRISO_SEP_P	1.00E+00	05/23/2008			70	D
BS	10098-97-2			7.6E-01				122.4		L	05:46			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.

Tuesday, June 10, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

Lab Sample Id: KLQMQ1CS **Sdg/Rept Nbr:** W05369 39239 **Collection Date:** 04/15/2008 09:45

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 04/15/2008

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
8113288	CO-60	4.27E+01	pCi/L	7.1E+00		2.41E+00		3.77E+01	GAMMALL_GS	2.00E+00	05/12/2008			70	D
BS	10198-40-0			7.1E+00				113.2		L	14:51			130	
8113288	CS-137	5.67E+01	pCi/L	7.9E+00		2.13E+00		4.89E+01	GAMMALL_GS	2.00E+00	05/12/2008			70	D
BS	10045-97-3			7.9E+00				116.0		L	14:51			130	
8113288	EU-152	8.04E+01	pCi/L	1.3E+01		5.48E+00		7.57E+01	GAMMALL_GS	2.00E+00	05/12/2008			70	D
BS	14683-23-9			1.3E+01				106.2		L	14:51			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.

Tuesday, June 10, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

Lab Sample Id:	KLQMX1CS	**Sdg/Rept Nbr:**	W05369	39239	**Collection Date:**	04/08/2008 12:35
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:**	04/09/2008

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
8113291	I-129L	1.02E+01	pCi/L	1.4E+00		3.44E-01	95.3	9.63E+00	I129LL_SEP_L	3.9557E+00	05/21/2008			70	D
BS	15046-84-1			1.4E+00				106.0		L	09:26			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.

Tuesday, June 10, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

Lab Sample Id:	KLQN32CS	**Sdg/Rept Nbr:**	W05369	39239	**Collection Date:** 04/07/2008 11:54
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 04/07/2008

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
8113300	ALPHA	1.82E+01	pCi/L	4.3E+00		8.94E-01	100.0	2.24E+01	9310_ALPHAB	2.001E-01	05/13/2008			70	D
BS	12587-46-1			2.0E+00				81.3		L	17:40			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.

Tuesday, June 10, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

Lab Sample Id:	KLQN71CS	**Sdg/Rept Nbr:**	W05369	39239	**Collection Date:** 04/07/2008 10:13
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 04/07/2008

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
8113301	BETA	2.48E+01	pCi/L	4.3E+00		2.58E+00	100.0	2.21E+01	9310_ALPHAB	2.002E-01	05/12/2008			70	D
BS	12587-47-2			2.5E+00				112.2		L	15:33			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.

Tuesday, June 10, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

Lab Sample Id: KLQN91CS **Sdg/Rept Nbr:** W05369 39239 **Collection Date:** 04/15/2008 09:45

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 04/15/2008

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
8113302	U-234	7.49E+00	pCi/L	1.5E+00		1.91E-01	98.9	8.69E+00	UISO_PLATE_	2.00E-01	05/07/2008			70	D
BS	13966-29-5			9.5E-01				86.2		L	19:22			130	
8113302	U-238	8.58E+00	pCi/L	1.7E+00		1.71E-01	98.9	9.10E+00	UISO_PLATE_	2.00E-01	05/07/2008			70	D
BS	U-238			1.0E+00				94.3		L	19:22			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.

Tuesday, June 10, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

Lab Sample Id:	KLQPF1CS	**Sdg/Rept Nbr:**	W05369 39239	**Collection Date:**	04/03/2008 09:02
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	04/03/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8113304	TC-99	4.84E+02	pCi/L	3.4E+01		1.03E+01	100.0	5.43E+02	TC99_SEP_LS	1.2501E-01	05/09/2008			70	D
BS	14133-76-7			1.3E+01				89.2		L	06:16			130	

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

Tuesday, June 10, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

Lab Sample Id:	KMKV41CS	**Sdg/Rept Nbr:**	W05369	39239	**Collection Date:** 04/01/2008 09:22
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 04/03/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8126482	C-14	4.61E+01	pCi/L	5.9E+00		8.32E+00	100.0	4.56E+01	C14_LSC	2.00E-01	05/06/2008			70	D
BS	14762-75-5			4.8E+00				101.2		L	18:50			130	

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

Tuesday, June 10, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

Lab Sample Id: KNX4A1CS **Sdg/Rept Nbr:** W05369 39239 **Collection Date:** 04/17/2008 10:01

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 04/17/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8149170	SR-90	1.60E+01	pCi/L	2.5E+00		4.30E-01	75.7	1.36E+01	SRISO_SEP_P	1.0004E+00	06/07/2008			70	D
BS	10098-97-2			8.4E-01				117.9		L	07:34			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.

Tuesday, June 10, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

Lab Sample Id:	KK1JT1CR	**Sdg/Rept Nbr:**	W05369	39239	**Collection Date:** 04/08/2008 12:35
Client Id:	B1TVL7	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 04/09/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8113291	I-129L	1.12E+00	pCi/L	2.9E-01	U	5.46E-01	94.6		I129LL_SEP_L	3.9096E+00	05/21/2008	15.2	0.8		D
DUP	15046-84-1	9.66E-01		2.9E-01						L	05:27	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.

Tuesday, June 10, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

Lab Sample Id:	KKPT91CR	**Sdg/Rept Nbr:**	W05369 39239	**Collection Date:**	04/03/2008 09:02
Client Id:	B1V115	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	04/03/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W08-004	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
8113304	TC-99	1.09E+01	pCi/L	6.6E+00		1.03E+01	100.0		TC99_SEP_LS	1.2501E-01	05/09/2008	4.8	0.1		D
DUP	14133-76-7	1.04E+01		4.6E+00						L	06:16	20.0	3		

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

Tuesday, June 10, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

Lab Sample Id:	KKPX72CR	**Sdg/Rept Nbr:**	W05369	39239	**Collection Date:** 04/01/2008 08:39
Client Id:	B1TWB4	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 04/03/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-004	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
8126482	C-14	6.77E+03	pCi/L	2.5E+02		8.32E+00	100.0		C14_LSC	2.00E-01	05/06/2008	.4	0.2		D
DUP	14762-75-5	6.74E+03		4.1E+01						L	20:15	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.

Tuesday, June 10, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

Lab Sample Id: KKVQ11FR **Sdg/Rept Nbr:** W05369 39239 **Collection Date:** 04/07/2008 11:54

Client Id: B1TWM4 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 04/07/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-004	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
8113300	ALPHA	3.50E+00	pCi/L	1.8E+00		1.59E+00	100.0		9310_ALPHAB	2.00E-01	05/12/2008	52.4	2.		D
DUP	12587-46-1	5.98E+00		1.6E+00						L	15:18	20.0	3		

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

Tuesday, June 10, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

Lab Sample Id:	KKVQ71FR	**Sdg/Rept Nbr:**	W05369	39239	**Collection Date:** 04/07/2008 10:13
Client Id:	B1TWM8	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 04/07/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8113301	BETA	4.79E+01	pCi/L	7.0E+00		2.65E+00	100.0		9310_ALPHAB	2.003E-01	05/12/2008	4.9	0.5		D
DUP	12587-47-2	5.03E+01		3.4E+00						L	15:33	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.

Tuesday, June 10, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

Lab Sample Id: KLC3P1FR **Sdg/Rept Nbr:** W05369 39239 **Collection Date:** 04/15/2008 09:45

Client Id: B1TX18 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 04/15/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8113288	BE-7	-4.13E+00	pCi/L	1.9E+01	U	3.23E+01			GAMMALL_GS	2.00E+00	05/12/2008	0.0	0.3		D
DUP	13966-02-4	-2.41E-01		1.9E+01						L	14:49	20.0	3		
8113288	CO-60	1.64E+00	pCi/L	1.9E+00	U	3.81E+00			GAMMALL_GS	2.00E+00	05/12/2008	2945.3	2.3		D
DUP	10198-40-0	-1.43E+00		1.9E+00						L	14:49	20.0	3		
8113288	CS-134	4.19E-01	pCi/L	1.7E+00	U	3.20E+00			GAMMALL_GS	2.00E+00	05/12/2008	613.8	0.5		D
DUP	13967-70-9	-2.13E-01		1.7E+00						L	14:49	20.0	3		
8113288	CS-137	-6.74E-01	pCi/L	1.8E+00	U	3.02E+00			GAMMALL_GS	2.00E+00	05/12/2008	0.0	0.2		D
DUP	10045-97-3	-4.52E-01		1.8E+00						L	14:49	20.0	3		
8113288	EU-152	3.58E+00	pCi/L	4.7E+00	U	8.64E+00			GAMMALL_GS	2.00E+00	05/12/2008	36.5	0.5		D
DUP	14683-23-9	5.18E+00		4.7E+00						L	14:49	20.0	3		
8113288	EU-154	-2.33E+00	pCi/L	5.5E+00	U	9.45E+00			GAMMALL_GS	2.00E+00	05/12/2008	0.0	0.7		D
DUP	15585-10-1	2.42E-01		5.5E+00						L	14:49	20.0	3		
8113288	EU-155	3.11E-01	pCi/L	3.1E+00	U	5.46E+00			GAMMALL_GS	2.00E+00	05/12/2008	0.0	1.		D
DUP	14391-16-3	-1.90E+00		3.1E+00						L	14:49	20.0	3		
8113288	K-40	-6.04E+01	pCi/L	4.3E+01	U	8.56E+01			GAMMALL_GS	2.00E+00	05/12/2008	0.0	0.2		D
DUP	13966-00-2	-6.60E+01		4.3E+01						L	14:49	20.0	3		
8113288	RU-106	-1.21E+01	pCi/L	1.7E+01	U	2.76E+01			GAMMALL_GS	2.00E+00	05/12/2008	0.0	1.1		D
DUP	13967-48-1	1.11E+00		1.7E+01						L	14:49	20.0	3		
8113288	SB-125	-2.03E+00	pCi/L	4.4E+00	U	7.43E+00			GAMMALL_GS	2.00E+00	05/12/2008	0.0	0.8		D
DUP	14234-35-6	5.89E-01		4.4E+00						L	14:49	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.

Tuesday, June 10, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

Lab Sample Id: KLC3P1GR **Sdg/Rept Nbr:** W05369 39239 **Collection Date:** 04/15/2008 09:45

Client Id: B1TX18 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 04/15/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-004	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
8113302	U-234	5.19E-01	pCi/L	2.7E-01		1.77E-01	106.0		UISO_PLATE_	2.0001E-01	05/07/2008	143.9	2.3		D
DUP	13966-29-5	8.46E-02		2.6E-01						L	19:21	20.0	3		
8113302	U-235	3.13E-02	pCi/L	6.4E-02	U	1.50E-01	106.0		UISO_PLATE_	2.0001E-01	05/07/2008	54.0	0.5		D
DUP	15117-96-1	5.44E-02		6.4E-02						L	19:21	20.0	3		
8113302	U-238	5.57E-01	pCi/L	2.8E-01		1.50E-01	106.0		UISO_PLATE_	2.0001E-01	05/07/2008	204.4	2.8		D
DUP	U-238	-6.07E-03		2.7E-01						L	19:21	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.

Tuesday, June 10, 2008

TestAmerica Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05369.Edd, h:\Reportdb\edd\FeadIV\Rad\39239.Edd

Lab Sample Id: KKPVG1CW **Sdg/Rept Nbr:** W05369 39239 **Collection Date:** 04/03/2008 10:02

Client Id: B1V117 **Matrix:** WATER WATER **Sample On Date:**

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

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W08-004	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
8113304	TC-99	3.30E+03	pCi/L	2.0E+02		1.03E+01	100.0	3.65E+03	TC99_SEP_LS	1.25E-01	05/09/2008			60	D
MS	14133-76-7			3.2E+01				90.4		L	06:16			140	

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

5/8/2008 2:54:02 PM

Lot No., Due Date: J8D150322; 06/02/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8113302; RUISO Uiso by ALP

SDG, Matrix: W05369; WATER

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 5-9-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8113302

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 Ford Date: 8/13/15

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

5/14/2008 1:52:30 PM

Lot No., Due Date: J8D080110; 06/02/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8113300; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05369; 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 # 10-12330

First Level Review John Horton **Date** 5-14-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8113300

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?	~~✓~~ 5/15/8	✓	
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 Nc

Second Level Review: Erika Ford Date: 5/15/8

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-12330**
NCM Initiated By: John Norton
Date Opened: 05/14/2008
Date Closed:

Classification: **Anomaly**
Status: **CHREVIEW**
Production Area: Counting
Tests: Alpha by GPC-Am
Lot #'s (Sample #'s): J8D080110 (1,2), J8D220000 (300),
QC Batches: 8113300,

Nonconformance: LCS result out of limits
Subcategory: Analyte was recovered low in the LCS

Problem Description / Root Cause

Name	Date	Description
John Norton	05/14/2008	The LCS yield was low at 72%.

Corrective Action

Name	Date	Corrective Action
John Norton	05/14/2008	The LCS was re-counted for an acceptable yield of 81%.

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: 5/14/2008

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

5/14/2008 1:16:31 PM

Lot No., Due Date: J8D080110; 06/02/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8113301; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05369; 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 John Norton **Date** 5-14-8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8113301

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: 5/15/8
SJ 5/15/8

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/9/2008 11:07:53 AM

Lot No., Due Date: J8D170306; 06/02/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8149170; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05369; 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 # 10-12500

First Level Review John Horton **Date** 6-9-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8149170/8113287

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 Nc

Second Level Review: Erika Ford Date: 6/10/18

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-12500**
NCM Initiated By: John Norton
Date Opened: 06/09/2008
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Sep
Tests: None
Lot #'s (Sample #'s): J8D170306 (1),
QC Batches: None.,

Nonconformance: Tracer yield out of limits
Subcategory: Unknown

Problem Description / Root Cause

Name	Date	Description
John Norton	06/09/2008	The tracer yield for the duplicate was low at 4%.

Corrective Action

Name	Date	Corrective Action
John Norton	06/09/2008	The waste fractions from this analysis were subjected to analysis in the hope of recovering the lost tracer, that attempt was not successful and the sample was re-analyzed.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/9/2008 11:02:45 AM

Lot No., Due Date: J8D040148,J8D040153,J8D040140,J8D040146,J8D080115,J8D150322,J8D170306; 06/02/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8113287; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05369; 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 # 10-12500

First Level Review John Horton **Date** 6-9-8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

5/14/2008 1:23:30 PM

Lot No., Due Date: J8D080110,J8D150322; 06/02/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8113288; RGAMMA Gamma by GER

SDG, Matrix: W05369; 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:

Sample J8D150322-1 was re-counted on a different detector in order to provide a duplicate sample.JN 051408

First Level Review John Norton **Date** 5-14-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8113288

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: Dup is sample counted on different detector due to insuff sample volume provided.

Second Level Review: Erika Ford Date: 5/15/18

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

5/22/2008 9:51:56 AM

Lot No., Due Date: J8D090321,J8D040153,J8D040140,J8D040146,J8D080110,J8D080115,J8D150322; 06/02/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8113291; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05369; WATER

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 5-22-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8113291

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 Ford Date: 5/26/18

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

5/19/2008 3:14:28 PM

Lot No., Due Date: J8D040137; 06/02/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8113304; RTC99 Tc-99 by LSC

SDG, Matrix: W05369; 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 John Vorton **Date** 5-19-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8113304

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 Ford Date: 8/19/18

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

5/8/2008 10:56:07 AM

Lot No., Due Date: J8D040148,J8D040146; 06/02/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8126482; RC14 C-14 by LSC

SDG, Matrix: W05369; 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 # 10-12289

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8126482

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 nc

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

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-12289**
NCM Initiated By: John Norton
Date Opened: 05/08/2008
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: C-14 by LSC
Lot #'s (Sample #'s): J8D040146 (1), J8D040148 (1), J8E050000 (482),
QC Batches: 8126482,

Nonconformance: Other (describe in detail)
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
John Norton	05/08/2008	the level of activity detected in the duplicate does not agree with the parent sample.

Corrective Action

Name	Date	Corrective Action
John Norton	05/08/2008	The bench-top work sheet and the liquid scintillation counting sheet list the same samples in a differing order, when the data is examined according to the order found on the bench-top work sheet the sample and duplicate show a relative percent discrepincy of only 0.4%. The sample identities have been corrected in data review.

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: 5/8/2008

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): 8106324 J8D140189
Lab Sample Numbers or WD5369
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: _____ Date: 4/15/08

Second-Level Review: _____ Date: 6/10/08

TestAmerica

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J8D040137 W05369 Due 05.19.08	C.O.C. # W08-004-159 Page 1 of 1

Collector: D. J. Sparks	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-004	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA APRIL 2008	Logbook: HNF-N-506-15	Ice Chest No.: SMR-137 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
Site-Wide Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1V115		W	4/3/08	0962	1x20-mL P	Activity Scan	None
B1V115		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2

KKPT9

L. Wade 4/3/08

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

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum 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 J8D040137 W05369 Due 05-19-08	C.O.C. # W08-004-165 Page 1 of 1

Collector: D. J. Sparks	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-004	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, APRIL 2008	Logbook: HNF-N-506-15	Ice Chest No.: SMZ-137 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
Site-Wide Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1V117		W	4/3/08	1002	1x20-mL P	Activity Scan	None
B1V117		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
						KKPVG	
						J. Wall 4/3/08	

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

Matrix *

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

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

Client: PGW SDG #: W05369 NA[ ] SAF #: W08-004 NA [ ]

Work Order Number: J8004013 7 Chain of Custody # W08-004-159,-165

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ___ Tape
   - ✓ Custody Seals
   - ___ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ___ Broken
   - ___ Leaking
   - ___ Have Air Bubbles (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ] Amount HNO_3 Added _____
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 4 3 08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D040140 W05369 Due 05·19·08

C.O.C. # **S08-004-227**

Page 1 of 1

Collector: Roy Sickle	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S08-004	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV. APRIL 2008	HAF-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: 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
B1TWY0		W	4-3-08	0929	1x20-mL P	Activity Scan	None
B1TWY0		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1TWY0		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

KRPVQ

Relinquished By	Date/Time	Received By	Date/Time
Roy Sickle (Print) (Sign)	4-3-08 1410	LJLANE TALR (Print) (Sign)	4-3-08 1410
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum 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 J8D040140 W05369 Due 05-19-08	C.O.C. # S08-004-228 Page 1 of 1

Collector: Roy Sickle	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S08-004	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV APRIL 2008	HNF H-506-13	Ice Chest No. Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TWY1		W	4-3-08	0929	1x20-mL P	Activity Scan	None
B1TWY1		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1TWY1		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						KR PVS	

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Roy Sickle	4-3-08/1410	LILANE TALK	4-3-08/1410

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

67

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

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

Client: PGW SDG #: W05369 NA[ ] SAF #: 508-004 NA [ ]

Work Order Number: J8D040140 Chain of Custody # 508-004-227,-228

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ✓ Custody Seals
   - ____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles
   (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ] Amount HNO_3 Added _____
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 4 3 08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TestAmerica

FLUOR HANHFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D040146 W05369 Due 05-19-08

C.O.C. # **S08-004-8**

Page 1 of 1

Collector FLUOR HANFORD R.F. CARRIGAN	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. S08-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV APRIL 2008	HNF-N-506-12	**Ice Chest No.** SML461 **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
B1TWB4		W	4-1-08	0534	1x20-mL P	Activity Scan	None
B1TWB4		W			2x1000-mL G/P	C14_LSC: C-14 (1)	None
						KKPX7	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD R.F. CARRIGAN			04/03/2008 0840	K.B. HULSE			04/03/2008 0840
K.B. HULSE			4-3-08 1410	FEDEX			4-3-08 1410
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

J8D040146 W05369 Due 05-19-08

C.O.C. # **S08-004-177**

Page 1 of 1

Collector D. J. Sparks	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. S08-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, APRIL 2008	logbook: HNF-N-506-15	**Ice Chest No.** SML461 **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
B1TWW2		W	4/2/08	1235	1x20-mL P	Activity Scan	None
B1TWW2		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1TWW2		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						KKPX9	

L. Wall 4/2/08

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. J. Sparks			4/3/2008 0840	K.B. HULSE			4/03/2008 0840
K.B. HULSE			4-3-08 1410	LWANE TALL			4-3-08 1410

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

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

Client: PGW SDG #: W05369 NA[ ] SAF #: 508-004 NA [ ]

Work Order Number: J8D040146 Chain of Custody # 508-004-8,-177

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ✓ Custody Seals
   - ____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles
   (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ] Amount HNO_3 Added _____
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 4 3 08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D040148 W05369 Due 05-19-08

C.O.C. # **I08-032-6**

Page 1 of 1

Collector FLUOR HANFORD R.F. CARRIGAN	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. I08-032	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 100KR4IAM(1/2) APRIL 2008	HNF-N-506-12	Ice Chest No. SMC461 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
B1TVX0		W	4-1-08	0922	1x20-mL P	Activity Scan	None
B1TVX0		W			2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1TVX0		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

KRPOH

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD R.F. CARRIGAN			04/03/2008 0840	K.B. HULSE			04/03/2008 0840
K.B. HULSE			4-3-08 1410	FEDEX			4-3-08 1410

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

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

Client: PGW SDG #: W05369 NA[ ] SAF #: I08-032 NA [ ]

Work Order Number: J8D040148 Chain of Custody # I08-032-6

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ Tape
   - ✓ Custody Seals
   - ____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ] Amount HNO_3 Added _____
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 4/3/08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D040153 W05369 Due 05·19·08

C.O.C. # **S08-004-165**

Page 1 of 1

Collector: R. A. Shepard	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S08-004	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV APRIL 2008	HWF-N-50b-10	Ice Chest No.: SML441 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
B1TWV4		W	4/3/08	1632	1x20-mL P	Activity Scan	None
B1TWV4		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1TWV4		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

KKPOQ

4/3/08

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. A. Shepard			APR 03 2008 1520		LILIANE	TALR	APR 03 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 = 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

J8D040153 W05369 Due 05·19·08

C.O.C. # **S08-004-171**

Page 1 of 1

Collector R. A. Shepard	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. S08-004	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV, APRIL 2008	HWF-N-506-10	Ice Chest No. SML-441 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
B1TWV8		W	4/3/08	1144	1x20-mL P	Activity Scan	None
B1TWV8		W	↓		3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1TWV8		W	↓		2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

KK POW

DRW 4/3/08

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. A. Shepard	[signature]		APR 03 2008 1520	[signature]	WLANE	THLR	APR 03 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	= Wine
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 4 3 08 1520 GM Screen Result 0.1 K

Client: PGW SDG #: W05369 NA[ ] SAF #: 508-004 NA [ ]

Work Order Number: J8D040153 Chain of Custody # 508-004-165, -171

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 2
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ___ Tape
   - ✓ Custody Seals
   - ___ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ___ Broken
   - ___ Leaking
   - ___ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ] Amount HNO_3 Added _____
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 4 3 08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TestAmerica

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D080110 W05369 DUE 5 22 08 KKVQ1

C.O.C. # **S08-004-867**

Page 1 of 1

Collector: K. B. Hulse	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S08-004	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV. APRIL 2008	HNF-N-526-13	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
B1TWM4		W	4-7-08	1154	1x20-mL P	Activity Scan	None
B1TWM4		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1TWM4		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1TWM4		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

Relinquished By	Received By
Print: K. B. Hulse Sign: [signature] Date/Time: APR 07 2008 1440	Print: LLANE Sign: TALR Date/Time: APR 07 2008 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

77

TestAmerica

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J8D080110 W05369 DUE 52208 KKVQ7	C.O.C. # S08-004-873 Page 1 of 1

Collector K. B. Hulse	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. S08-004	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV. APRIL 2008	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** Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TWM8		W	4-7-08	1013	1x20-mL P	Activity Scan	None
B1TWM8		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1TWM8		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1TWM8		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
K. B. Hulse			APR 07 2008 1440		LWLANE	TALR	APR 07 2008 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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D080110 W05369 DUE 5 22 08 KKVRA

C.O.C. # **S08-004-879**

Page 1 of 1

Collector K. B. Hulse	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. S08-004	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV. APRIL 2008	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
B1TWN2		W	4-7-08	0933	1x20-mL P	Activity Scan	None
B1TWN2		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1TWN2		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
K. B. Hulse	K B Hulse		APR 07 2008 1440	[signature]	LANE TALR		APR 07 2008 1440
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 4 7 08 1440 GM Screen Result 0.1 K

Client: PGW SDG #: W05369 NA[ ] SAF #: 508-004 NA [ ]

Work Order Number: J8D080110 Chain of Custody # 508-004-867,-873,-879

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 3
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ___ Tape
   - ✓ Custody Seals
   - ___ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ___ Broken
   - ___ Leaking
   - ___ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ] Amount HNO_3 Added _____
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 4 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 _____

LS-023, Rev. 7, 1/08

TestAmerica

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D080115 W05369 DUE 5 22 08 KKVRT

C.O.C. # **S08-004-689**

Page 1 of 1

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

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TX22		W	4-7-08	1102	1x20-mL P	Activity Scan	None
B1TX22		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1TX22		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. A. Shepard			APR 07 2008 1450		LWLANE	TALR	APR 07 2008 1450
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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D080115 W05369 DUE 5 22 08 KKVRH

C.O.C. # **S08-004-690**

Page 1 of 1

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

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TX23		W	4-7-08	0800	1x20-mL P	Activity Scan	None
B1TX23		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1TX23		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. A. Shepard			APR 07 2008 1450		LVLANE	TALR	APR 07 2008 1450
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

Date/Time Received: 4 7 08 1450 GM Screen Result 0.1K

Client: PGW SDG #: W05369 NA[ ] SAF #: 508-004 NA [ ]

Work Order Number: J8D080115 Chain of Custody # 508-004-689,-690

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: RJP Date: 4 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 _____

TestAmerica

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D090321 W05369 Due 05-23-08

C.O.C. # **A08-004-5**

Page 1 of 1

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

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TVL7		W	4-9-08	1235	1x20-mL P	Activity Scan	None
B1TVL7		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						RKIJT	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. A. Shepard			4-9-08 0930	K. B. Hulse			4-9-08 0930
K. B. Hulse			4-9-08 1200	LJ LANE	TAL		4-9-08 1200

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

Date/Time Received: 04.09.08 1200 **GM Screen Result** .2

Client: PGW **SDG #:** W05369 NA[ ] **SAF #:** A08-004 NA [ ]

Work Order Number: J8D090321 **Chain of Custody #** A08-004-5

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
   1 Appropriate Sample Lables
9. Samples are:
   1 In Good Condition
   _____ Broken
   _____ Leaking
   _____ Have Air Bubbles
   (Only for samples requiring no head space.)
10. Sample pH taken?. NA [ ] pH<2 [ ] pH>2 [ ] pH>9 [✓] **Amount HNO_3 Added** None
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: LL L. Smith **Date:** 04.09.08

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 J8D140189 W05369 DUE 5 29 08 KK9LD	C.O.C. # I08-034-8 Page 1 of 1

Collector: Roy Sickle	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I08-034	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: ISRM, APRIL 2008	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: 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
B1TW73		W	4-14-08	0939	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	Cool~4C
B1TW73		W	↓	↓	1x20-mL P	Activity Scan	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Roy Sickle	[signature]		1230 4-14-08	FM HALL	[signature]		1230 4-14-08
FM HALL			1300 4-14-08	[signature] LUCANE TALK			1300 4-14-08

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 41408 1300 GM Screen Result 0.1K

Client: PGW SDG #: W05369 NA[ ] SAF #: I08-034-8 [ ]

Work Order Number: J8D140189 Chain of Custody # I08-034-8

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: 41408

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TestAmerica

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D150322 Due 05.30.08 W05369

C.O.C. # **S08-004-321**

Page 1 of 1

Collector: D. R. Williamson	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S08-004	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, APRIL 2008	HNF-N-506-10	Ice Chest No.: GW1 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
B1TX18		W	4-15-08	0945	1x20-mL P	Activity Scan	None
B1TX18		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1TX18		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1TX18		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1TX18		W			1x1000-mL G/P	UISO_PLATE_AEA: List-1 (3)	HNO3 to pH <2
						KLC3P	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. R. Williamson	[signature]		APR 15 2008 1420	[signature]	TAL		APR 15 2008 1420
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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D150322 W05369 Due 05/30/08

C.O.C. # **S08-004-313**

Page 1 of 1

Collector D. R. Williamson	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. S08-004	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV, APRIL 2008	HNF-N-506-10	Ice Chest No. GW21 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
B1TX14		W	4/15/08	1044	1x20-mL P	Activity Scan	None
B1TX14		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						KLC39	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. R. Williamson			APR 15 2008 1420		WLANE	TAL	APR 15 2008 1420
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 JD8150322 W05369 Due 05-30-08	C.O.C. # S08-004-307 Page 1 of 1

Collector: D. R. Williamson	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S08-004	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV APRIL 2008	HNF-N-506-10	Ice Chest No.: GW1 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
B1TX10		W	4-15-08	1118	1x20-mL P	Activity Scan	None
B1TX10		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						KLC4E	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. R. Williamson			APR 15 2008 1420		W LANE	TAL	APR 15 2008 1420
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

Date/Time Received: 4-15-08 1420 GM Screen Result .1

Client: PGW SDG #: W05369 NA[ ] SAF #: S08-004 NA [ ]

Work Order Number: J8D150322 Chain of Custody # S08-004-321, 313, 307

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 3
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   _____ Tape
   _____ Custody Seals
   _____ Hazard Lables
   1 Appropriate Sample Lables
9. Samples are:
   1 In Good Condition
   _____ Broken
   _____ Leaking
   _____ Have Air Bubbles
   (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ] 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: LR L. Smith Date: 04-15-08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8D170306 W05369 DUE 6208 KLHVD

C.O.C. # **I08-027-56**

Page 1 of 1

Collector Roy Shepard Fluor Hanford	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-027	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100NR2IAM, MARCH 2008	HNF-N-506-12	**Ice Chest No.** GRP-03-026 **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
B1TJL1		W	4-17-08	1001	1x20-mL P	Activity Scan	None
B1TJL1		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

Relinquished By Roy Shepard Fluor Hanford Print Sign APR 17 2008 **Date/Time** 1315	**Received By** Print Sign LULANE TAL APR 17 2008 **Date/Time** 1315	**Matrix ***	
Relinquished By **Date/Time**	**Received By** **Date/Time**	S = Soil; SE = Sediment; SO = Solid; SL = Sludge; W = Water; O = Oil; A = Air	DS = Drum Solid; DL = Drum Liqui; T = Tissue; WI = Wine; L = Liquid; V = Vegetation; X = Other
Relinquished By **Date/Time**	**Received By** **Date/Time**		
Relinquished By **Date/Time**	**Received By** **Date/Time**		

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: 41708 1315 GM Screen Result 0.1K

Client: PGW SDG #: W05369 NA[ ] SAF #: I08-027 NA [ ]

Work Order Number: J8D170306 Chain of Custody # I08-027-56

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: 41708

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TestAmerica

4/30/2008 1:58:33 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120373922
Pipet #: _____

AnalyDueDate: 05/30/2008

Sep1 DT/Tm Tech:

Batch: 8113302 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 KLC3P-1-AE J8D150322-1-SAMP 04/15/2008 09:45		AmtRec: 20ML,4XLP,3X4LP	200.01g,in #Containers: 8	200.01g	UITC19756 04/23/08,pd 06/15/01,r	200		Scr:	Alpha: -7.31E-05 uCi/Sa	Beta: 3.09E-04 uCi/Sa
2 KLC3P-1-AG-X J8D150322-1-DUP 04/15/2008 09:45		AmtRec: 20ML,4XLP,3X4LP	200.01g,in #Containers: 8	200.01g	UITC19757 04/23/08,pd 06/15/01,r			Scr:	Alpha: -7.31E-05 uCi/Sa	Beta: 3.09E-04 uCi/Sa
3 KLQN9-1-AA-B J8D220000-302-BLK 04/15/2008 09:45		AmtRec:	200.00g,in #Containers: 1	200.00g	UITC19758 04/23/08,pd 06/15/01,r			Scr:	Alpha:	Beta:
4 KLQN9-1-AC-C J8D220000-302-LCS 04/15/2008 09:45		AmtRec:	200.00g,in #Containers: 1	200.00g	UISG1623 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

KLC3P1AE-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:

KLQN91AA-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:

4/30/2008 1:58:34 PM

Sample Preparation/Analysis

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

Balance Id:1120373922

Pipet #: _____

AnalyDueDate: 05/30/2008

Sep1 DT/Tm Tech:

Batch: 8113302 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

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:

KLQN91AC-LCS:
U-232 RDL: pCi/L LCL:20 UCL:105 RPD:20 Uranium RDL: pCi/L LCL:70 UCL:130 RPD:20

KLC3P1AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KLQN91AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KLQN91AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

5/8/2008 2:53:19 PM

ICOC Fraction Transfer/Status Report

ByDate: 5/9/2007, 5/13/2008, Batch: '8113302', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8113302						
AC		Rev1C	Barcotl	4/30/2008 2:00:26 PM		
SC			wagarr	IsBatched	4/22/2008 2:20:06 PM	ICOC_RADCALC v4.8.32
SC			Barcotl	InPrep	4/30/2008 2:00:26 PM	RICH-RC-5016 REVISION 7
SC			Barcotl	Prep1C	4/30/2008 2:00:37 PM	RICH-RC-5016 REVISION 7
SC			AshworthA	Prep2C	5/1/2008 1:58:02 PM	RICH-RC-5086 REV3
SC			AshworthA	Sep1C	5/6/2008 6:50:27 PM	RICH-RC-5067 REV8
SC			AshworthA	Sep2C	5/7/2008 12:58:18 PM	RICH-RC-5039 REV5
SC			BlackCL	InCnt1	5/7/2008 1:00:36 PM	RICH-RD-0008 REVISION 4
SC			DAWKINSO	CalcC	5/7/2008 9:15:44 PM	RICH-RD-0008 REVISION 4
SC			nortonj	Rev1C	5/8/2008 2:53:03 PM	RICH-RC-0002 REV 8
AC			Barcotl	4/30/2008 2:00:37 PM		
AC			AshworthA	5/1/2008 1:58:02 PM		
AC			AshworthA	5/6/2008 6:50:27 PM		
AC			AshworthA	5/7/2008 12:58:18 PM		
AC			BlackCL	5/7/2008 1:00:36 PM		
AC			DAWKINSO	5/7/2008 9:15:44 PM		
AC			nortonj	5/8/2008 2:53:03 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 8

ICOCFractions v4.8.33

TestAmerica

5/7/2008 2:38:30 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: 245

AnalyDueDate: 05/22/2008 W053669

Batch: 8113300 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SS , 57671

Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,HarrisD | Bock g.

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 KKVQ1-1-AA J8D080110-1-SAMP 04/07/2008 11:54		200.40g,in AmtRec: VIAL20,LP,3X4LP #Containers: 5		1.5	40.8	50	10A Scr:	1544 Alpha: 4.84E-07 uCi/Sa	5/12/08 mc Beta: -1.33E-06 uCi/Sa	
2 KKVQ1-1-AF-X J8D080110-1-DUP 04/07/2008 11:54		200.00g,in AmtRec: VIAL20,LP,3X4LP #Containers: 5			41.1		10B Scr:	Alpha: 4.84E-07 uCi/Sa	Beta: -1.33E-06 uCi/Sa	
3 KKVQ7-1-AA J8D080110-2-SAMP 04/07/2008 10:13		200.30g,in AmtRec: VIAL20,LP,3X4LP #Containers: 5			46.0		10C Scr:	Alpha: 8.56E-07 uCi/Sa	Beta: 2.46E-07 uCi/Sa	
4 KLQN3-1-AA-B J8D220000-300-BLK 04/07/2008 11:54		200.40g,in AmtRec: #Containers: 1			0.7		10D Scr:	Alpha:	Beta:	
5 KLQN3-1-AC-C J8D220000-300-LCS 04/07/2008 11:54		200.10g,in AmtRec: #Containers: 1	ASD4466 04/17/08,pd 06/01/01,r		0.6		10E Scr:	Alpha:	Beta:	

Comments: pH 2.0 OK 5/7/08

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

KKVQ11AA-SAMP Constituent List:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:

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 Prep_SamplePrep v4.8.32

97

5/7/2008 2:38:31 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 05/22/2008

Sep1 DT/Tm Tech:

Batch: 8113300 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:

```
KLQN31AA-BLK:
  ALPHA       RDL:3          pCi/L     LCL:       UCL:       RPD:
KLQN31AC-LCS:
  Am-241      RDL:           pCi/L     LCL:70     UCL:130    RPD:20
KKVQ11AA-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
KLQN31AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
KLQN31AC-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: 5

Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.32

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RE-COUNT REQUEST

DUE DATE 5-22

CUSTOMER PGW

ANALAYSIS α

MATRIX H_2O

LOT NUMBER J8D080110

SAMPLE DELIVERY GROUP

OLD BATCH NUMBER 8113300

NEW BATCH NUMBER √

LAB SAMPLE ID	CLIENT ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1) KLQN3 LAC C	384868	LOW LCS YIELD
2)		
3)		
4)		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		
13)		
14)		
15)		
16)		
17)		
18)		
19)		
20)		

RC-126, 12/07, Rev 5

TestAmerica

5/13/2008 3:07:57 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory .
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 05/22/2008

Sep1 DT/Tm Tech:

Batch: 8113300 **WATER** **pCi/L** **PM, Quote: SS , 57671**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 8113288 AWTA, 8113291 BNTB, 8113300 AZS7, 8113301 BCS8,

Prep Tech: ,HarrisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KKVQ1-1-AA J8D080110-1-SAMP 04/07/2008 11:54		200.40g,in AmtRec: VIAL20,LP,3X4LP	#Containers: 5					Scr:	Alpha: 4.84E-07 uCi/Sa	Beta: -1.33E-06 uCi/Sa
2 KKVQ1-1-AF-X J8D080110-1-DUP 04/07/2008 11:54		200.00g,in AmtRec: VIAL20,LP,3X4LP	#Containers: 5					Scr:	Alpha: 4.84E-07 uCi/Sa	Beta: -1.33E-06 uCi/Sa
3 KKVQ7-1-AA J8D080110-2-SAMP 04/07/2008 10:13		200.30g,in AmtRec: VIAL20,LP,3X4LP	#Containers: 5					Scr:	Alpha: 8.56E-07 uCi/Sa	Beta: 2.46E-07 uCi/Sa
4 KLQN3-1-AA-B J8D220000-300-BLK 04/07/2008 11:54		200.40g,in AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:
5 KLQN3-1-AC-C J8D220000-300-LCS 04/07/2008 11:54		200.10g,in AmtRec:	ASD4466 04/17/08,pd 06/01/03,r #Containers: 1					Scr:	Alpha:	Beta:
6 KLQN3-2-AC-C J8D220000-300-LCS 04/07/2008 11:54		200.1 AmtRec:	ASD 4466 #Containers: 1	65	0.6	100	11A	Scr:	1832 Alpha:	5/13/08 0800 Beta:

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: 6

Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added ICOC v4.8.32

100

5/13/2008 3:07:58 PM

Sample Preparation/Analysis

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

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

AnalyDueDate: 05/22/2008

Batch: 8113300 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:

Comments:

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

KKVQ11AA-SAMP Constituent List:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
KLQN31AA-BLK:					
ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
KLQN31AC-LCS:					
Am-241	RDL:	pCi/L	LCL:70	UCL:130	RPD:20
KLQN32AC-LCS:					

KKVQ11AA-SAMP Calc Info:

Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KLQN31AA-BLK:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KLQN31AC-LCS:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
KLQN32AC-LCS:				
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

Approved By _____ Date: _____

TestAmerica

5/14/2008 1:51:13 PM

ICOC Fraction Transfer/Status Report

ByDate: 5/15/2007, 5/19/2008, Batch: '8113300', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8113300						
AC		Rev1C	HarrisD	5/7/2008 2:33:01 PM		
SC			wagarr	IsBatched	4/22/2008 2:20:06 PM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	5/7/2008 2:33:01 PM	RICH-RC-5014 Revision 7
SC			HarrisD	Prep1C	5/7/2008 2:38:33 PM	RICH-RC-5014 REVISION 7
SC			BockJ	InPrep2	5/12/2008 7:45:41 AM	RICH-RC-5014 REVISION 7
SC			BockJ	Prep2C	5/12/2008 2:07:17 PM	RICH-RC-5014 REVISION 7
SC			ClarkR	InCnt1	5/12/2008 2:30:15 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	5/12/2008 7:54:26 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	InCnt1	5/13/2008 4:49:56 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	5/13/2008 9:46:00 PM	RICH-RD-0003 REVISION 5
SC			nortonj	Rev1C	5/14/2008 1:51:06 PM	RICH-RC-0002 REV 8
AC			HarrisD	5/7/2008 2:38:33 PM		
AC			BockJ	5/12/2008 7:45:41		
AC			BockJ	5/12/2008 2:07:17 PM		
AC			ClarkR	5/12/2008 2:30:15 PM		
AC			DAWKINSO	5/12/2008 7:54:26 PM		
AC			DAWKINSO	5/13/2008 4:49:56 PM		
AC			DAWKINSO	5/13/2008 9:46:00 PM		
AC			nortonj	5/14/2008 1:51:06 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 9

ICOCFractions v4.8.33

TestAmerica

5/7/2008 2:43:35 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 05/22/2008 WDS209

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

Balance Id:1120482733
Pipet #: 245

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD (Bock).

Batch: 8113301 **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	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KKVQ1-1-AC J8D080110-1-SAMP 04/07/2008 11:54	AmtRec: VIAL20,LP,3X4LP #Containers: 5	200.10g,in		1.5	75.5	100	26A Scr:	1121 Alpha: 4.84E-07 uCi/Sa	5/12/08 m Beta: -1.33E-06 uCi/Sa	
2 KKVQ7-1-AC J8D080110-2-SAMP 04/07/2008 10:13	AmtRec: VIAL20,LP,3X4LP #Containers: 5	200.10g,in			74.9		26C Scr:	Alpha: 8.56E-07 uCi/Sa	Beta: 2.46E-07 uCi/Sa	
3 KKVQ7-1-AF-X J8D080110-2-DUP 04/07/2008 10:13	AmtRec: VIAL20,LP,3X4LP #Containers: 5	200.30g,in			76.3		26D Scr:	Alpha: 8.56E-07 uCi/Sa	Beta: 2.46E-07 uCi/Sa	
4 KLQN7-1-AA-B J8D220000-301-BLK 04/07/2008 10:13	AmtRec: #Containers: 1	200.20g,in			0.1		27A Scr:	Alpha:	Beta:	
5 KLQN7-1-AC-C J8D220000-301-LCS 04/07/2008 10:13	AmtRec: #Containers: 1	200.20g,in	BESB3246 04/17/08,pd 08/08/06 r		0.4		27B Scr:	Alpha:	Beta:	

Comments: PH2.0 DW 5/7/08

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

KKVQ11AC-SAMP Constituent List:
BETA RDL:4 pCi/L LCL: UCL: RPD:

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 Prep_SamplePrep v4.8.32

5/7/2008 2:43:37 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 #: _____

AnalyDueDate: 05/22/2008

Sep1 DT/Tm Tech:

Batch: 8113301 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:

```
KLQN71AA-BLK:
  BETA        RDL:4          pCi/L     LCL:        UCL:        RPD:
KLQN71AC-LCS:
  Sr-90       RDL:           pCi/L     LCL:70      UCL:130     RPD:20
KKVQ11AC-SAMP Calc Info:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
KLQN71AA-BLK:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
KLQN71AC-LCS:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

Approved By _____ Date: _____

5/14/2008 1:15:43 PM

ICOC Fraction Transfer/Status Report

ByDate: 5/15/2007, 5/19/2008, Batch: '8113301', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8113301						
AC		Rev1C	HarrisD	5/7/2008 2:40:50 PM		
SC			wagarr	IsBatched	4/22/2008 2:20:06 PM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	5/7/2008 2:40:50 PM	RICH-RC-5014 Revision 7
SC			HarrisD	Prep1C	5/7/2008 2:43:38 PM	RICH-RC-5014 REVISION 7
SC			BockJ	InPrep2	5/12/2008 7:45:51 AM	RICH-RC-5014 REVISION 7
SC			BockJ	Prep2C	5/12/2008 2:07:23 PM	RICH-RC-5014 REVISION 7
SC			ClarkR	InCnt1	5/12/2008 2:30:25 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	5/12/2008 7:54:38 PM	RICH-RD-0003 REVISION 5
SC			nortonj	Rev1C	5/14/2008 1:15:36 PM	RICH-RC-0002 REV 8
AC			HarrisD	5/7/2008 2:43:38 PM		
AC			BockJ	5/12/2008 7:45:51		
AC			BockJ	5/12/2008 2:07:23 PM		
AC			ClarkR	5/12/2008 2:30:25 PM		
AC			DAWKINSO	5/12/2008 7:54:38 PM		
AC			nortonj	5/14/2008 1:15:36 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.33

TestAmerica

6/5/2008 4:37:28 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 06/02/2008

Sep1 DT/Tm Tech: 05/29/2008 15:21,ManisD

Batch: 8149170 **WATER** **pCi/L** **PM, Quote: SS , 57671**

Sep2 DT/Tm Tech: 06/05/2008 13:15,ManisD

SEQ Batch, Test: None All Tests: 8113287 CLTL, 8149170 CLTL,

Prep Tech: HarrisD

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 KLHVD-2-AA		1000.20g,in	SRTB16214		1.0	22.2	100	4A	0646	6/5/08	
J8D170306-1-SAMP			05/14/08,pd 05/22/07,r	0.7282				4A	0824	6/7/08	
						05/29/2008 15:21,s1, 06/05/2008					
04/17/2008 10:01		AmtRec: VIAL20,3XLP		#Containers: 4				Scr:	Alpha: -4.45E-05 uCi/Sa		Beta: 5.87E-04 uCi/Sa
2 KLHVD-3-AC-X											
J8D170306-1-DUP											
						05/29/2008 15:21,s1					
04/17/2008 10:01		AmtRec: VIAL20,3XLP		#Containers: 4				Scr:	Alpha: -4.45E-05 uCi/Sa		Beta: 5.87E-04 uCi/Sa
3 KNX4A-1-AA-B		1000.50g,in	SRTB16215		1.0	22.3	100	4B	0646	6/5/08	
J8E280000-170-BLK			05/21/08,pd 05/22/07,r	0.9152				4B	0824	6/7/08	
						05/29/2008 15:21,s1					
04/17/2008 10:01		AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:
4 KNX4A-1-AC-C		1000.40g,in	SRSG1466		1.0	22.7	100	4C	0646	6/5/08	
J8E280000-170-LCS			04/11/08,pd 05/22/07,r	0.8461				4C	0824	6/7/08	
						05/29/2008 15:21,s1					
04/17/2008 10:01		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: 4
Prep_SamplePrep v4.8.32

TestAmerica

6/5/2008 4:37:28 PM

Sample Preparation/Analysis

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

Balance Id:1120482733
Pipet #: _____

AnalyDueDate: 06/02/2008

Sep1 DT/Tm Tech: 05/29/2008 15:21,ManisD

Batch: 8149170 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	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

Comments: KLHVD-SAMP "Comments ISV for dup. DLH 5/28/08"

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

KLHVD2AA-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

KNX4A1AA-BLK:

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

KNX4A1AC-LCS:

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

KLHVD2AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNX4A1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNX4A1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RE-ANALYSIS REQUEST

DUE DATE 5-19

CUSTOMER PGW

ANALAYSIS SR 90

MATRIX H_2O

LOT NUMBER J8D040140, 040146, 040148, 040153, 080115, 150322, 170306

SAMPLE DELIVERY GROUP

OLD BATCH NUMBER 8113287

NEW BATCH NUMBER 8149170

LAB SAMPLE ID	CLIENT ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1) KLHVD1AA	384868	
2) KLHVD1AC X		TRACER FAILED
3)		
4)		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		
13)		
14)		
15)		
16)		
17)		
18)		
19)		
20)		
LAB QC ID		Assigned with new batch.

RC-048, 12/07, Rev 8

6/9/2008 11:06:53 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/10/2007, 6/14/2008, Batch: '8149170', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8149170						
AC		**Rev1C**	**HarrisD**	5/28/2008 11:20:05		
SC			nortonj	IsBatched	5/28/2008 9:49:05 AM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	5/28/2008 11:20:05 AM	RICH-RC-5014 Revision 7
SC			HarrisD	Prep1C	5/28/2008 11:24:39 AM	RICH-RC-5016 REVISION 7
SC			ManisD	Sep1C	5/29/2008 3:42:40 PM	RICH-RC-5006 REV 7
SC			DAWKINSO	Cnt1C	5/29/2008 8:02:49 PM	RICH-RD-0007 REVISION 6
SC			ManisD	Sep2C	6/5/2008 4:38:17 PM	RICH-RC-5071 REV 5
SC			DAWKINSO	InCnt2	6/5/2008 6:36:22 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	6/8/2008 1:11:36 PM	RICH-RD-0003 REVISION 5
SC			nortonj	Rev1C	6/9/2008 11:06:49 AM	RICH-RC-0002 REV 8
AC			**HarrisD**	5/28/2008 11:24:39		
AC			**ManisD**	5/29/2008 3:42:40 PM		
AC			**DAWKINSO**	5/29/2008 8:02:49 PM		
AC			**ManisD**	6/5/2008 4:38:17 PM		
AC			**DAWKINSO**	6/5/2008 6:36:22 PM		
AC			**DAWKINSO**	6/8/2008 1:11:36 PM		
AC			**nortonj**	6/9/2008 11:06:49		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 8

ICOCFractions v4.8.33

4/30/2008 9:50:54 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 05/19/2008

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

Balance Id:1120373922
Pipet #: DRM Sep2 [illegible]
Sep1 DT/Tm Tech: 13 May 08 15:34:26
Sep2 DT/Tm Tech: 21 May 08 12:30:00 DRM
Prep Tech: ,Barcotl

Batch: 8113287 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 KKPVQ-1-AC J8D040140-1-SAMP YTA18837 Ex:4/29/2009 04/03/2008 09:29		1000.02g,in	SRTB16125 04/22/08,pd 05/22/07 r	1.657 2.0028 0.8273		228	100	9" 1717 5/13/08 OD 3D 0632 3D 0631		5/22/08 5/23/08	
			AmtRec: 20ML,3XLP,2X4LP	#Containers: 6				Scr:	Alpha: -2.10E-07 uCi/Sa	Beta: -1.56E-07 uCi/Sa	
2 KKPV5-1-AC J8D040140-2-SAMP YTA18838 Ex:4/29/2009 04/03/2008 09:29		1000.00g,in	SRTB16126 04/22/08,pd 05/22/07 r	1.780 1.9440 0.9156		21.6		3" 1718 5/13/08 OD 4A 0632 4A 0631		5/22/08 5/23/08	
			AmtRec: 20ML,3XLP,2X4LP	#Containers: 6				Scr:	Alpha: -9.70E-07 uCi/Sa	Beta: 2.27E-06 uCi/Sa	
3 KKPX9-1-AC J8D040146-2-SAMP YTA18839 Ex:4/29/2009 04/02/2008 12:35		1000.01g,in	SRTB16127 04/22/08,pd 05/22/07 r	1.577 1.9586 0.8052		21		9" 1800 5/13/08 OD 4B 0632 4B 0631		5/22/08 5/23/08	
			AmtRec: 20ML,3XLP,2X4LP	#Containers: 6				Scr:	Alpha: -1.32E-06 uCi/Sa	Beta: 1.30E-06 uCi/Sa	
4 KKP0H-1-AC J8D040148-1-SAMP YTA18840 Ex:4/29/2009 04/01/2008 09:22		1000.01g,in	SRTB16128 04/22/08,pd 05/22/07 r	1.730 1.9256 0.8984		21.9		3" 1800 5/13/08 OD 4C 0632 4C 0631		5/22/08 5/23/08	
			AmtRec: 20ML,5XLP	#Containers: 6				Scr:	Alpha: -1.01E-07 uCi/Sa	Beta: 3.70E-07 uCi/Sa	

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

4/30/2008 9:50:55 AM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 05/19/2008

Sep1 DT/Tm Tech:

Batch: 8113287 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	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
5 KKP0Q-1-AC		1000.00g,in	SRTB16129	1.605			100	9"	1842	5/13/08	
J8D040153-1-SAMP			04/22/08,pd	1.9697		221		4D	Ch32		
								4D	Ch31		
	YTA18841 Ex:4/29/2009			0.8148							
04/03/2008 10:32		AmtRec: 20ML,3XLP,2X4LP		#Containers: 6				Scr:	Alpha: -1.75E-07 uCi/Sa		Beta: -5.20E-07 uCi/Sa
6 KKP0W-1-AC		1000.01g,in	SRTB16130	1.763				3"	1842	5/13/08	
J8D040153-2-SAMP			04/22/08,pd	1.9770		226		5A	Ch32		
								5A	Ch31		
	YTA18842 Ex:4/29/2009			0.8918							
04/03/2008 11:44		AmtRec: 20ML,3XLP,2X4LP		#Containers: 6				Scr:	Alpha: -1.06E-06 uCi/Sa		Beta: 2.39E-06 uCi/Sa
7 KKVRT-1-AC		1000.01g,in	SRTB16131	1.644				9"	1916	5/13/08	
J8D080115-1-SAMP			04/22/08,pd	1.9659		224		5B	Ch32		
				0.8617				5B	Ch31	5/13/08	
	YTA18843 Ex:4/29/2009										
04/07/2008 11:02		AmtRec: VIAL20,3XLP,2X4LP		#Containers: 6				Scr:	Alpha: -1.20E-06 uCi/Sa		Beta: 1.30E-06 uCi/Sa
8 KKVR4-1-AC		1000.01g,in	SRTB16132	1.865				3"	1916	5/13/08	
J8D080115-2-SAMP			04/22/08,pd	1.9659		23		5C	Ch32		
				0.9487				5C	Ch31		
	YTA18844 Ex:4/29/2009										
04/07/2008 08:00		AmtRec: VIAL20,3XLP,2X4LP		#Containers: 6				Scr:	Alpha: 3.48E-07 uCi/Sa		Beta: 1.18E-06 uCi/Sa

TestAmerica

4/30/2008 9:50:56 AM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 05/19/2008

Sep1 DT/Tm Tech:

Batch: 8113287 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	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
9 KLC3P-1-AD		1000.00g,in	SRTB16133	1.635			100	9"	1951	5/13/08	
J8D150322-1-SAMP			04/22/08,pd	1.9696		22.4					
				0.8301				6D	U632		
								6D	U631		
04/15/2008 09:45		AmtRec: 20ML,4XLP,3X4LP		#Containers: 8				Scr:	Alpha: -7.31E-05 uCi/Sa		Beta: 3.09E-04 uCi/Sa
10 KLHVD-1-AA		1000.00g,in	SRTB16134	1.416				3"	1951	5/13/08	
J8D170306-1-SAMP			04/22/08,pd	1.9512		22.6		6A	U632		
				0.7257				6A	U631		
04/17/2008 10:01		AmtRec: VIAL20,3XLP		#Containers: 4				Scr:	Alpha: -4.45E-05 uCi/Sa		Beta: 5.87E-04 uCi/Sa
11 KLHVD-1-AC-X		1000.00g,in	SRTB16135	92.4				9"	2025	5/13/08	
J8D170306-1-DUP			04/22/08,pd	1.9806 +3		23.1		6B	U632		
								6B	U631		
				0.0467							
04/17/2008 10:01		AmtRec: VIAL20,3XLP		#Containers: 4				Scr:	Alpha: -4.45E-05 uCi/Sa		Beta: 5.87E-04 uCi/Sa
12 KLQMN-1-AA-B		1000.01g,in	SRTB16136	1.839				3"	2025	5/13/08	
J8D220000-287-BLK			04/22/08,pd	1.9696		22.9		6C	U632		
				0.9337				6C	U631		
04/17/2008 10:01		AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:

YTA18848 Ex:4/29/2009

TAL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 3 ISV - Insufficient Volume for Analysis WO Cnt: 12

Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Prep_SamplePrep v4.8.32

4/30/2008 9:50:56 AM

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
Pipet #: _____
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,Barcotl

AnalyDueDate: 05/19/2008

Batch: 8113287 pCi/L
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:
13 KLQMN-1-AC-C		1000.00g,in	SRSG1476	1.730			100	9"	20 57	5/13/08	
J8D220000-287-LCS			04/11/08,pd 05/22/07 r	2.0198		22.6		60	0632	[illegible]	
								60	0637	[illegible]	
				0.8565							

Ex:4/29/2009 YTA18849

04/17/2008 10:01 AmtRec: #Containers: 1 Scr: Alpha: Beta:

Comments:

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

KKPVQ1AC-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

KLQMN1AA-BLK:

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

KLQMN1AC-LCS:

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

KKPVQ1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KLQMN1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KLQMN1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TestAmerica

6/10/2008 2:24:10 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/11/2007, 6/15/2008, Batch: '8113287', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8113287						
AC		Rev1C	Barcotl	4/30/2008 9:53:30		
SC			wagarr	IsBatched	4/22/2008 2:20:06 PM	ICOC_RADCALC v4.8.32
SC			Barcotl	InPrep	4/30/2008 9:53:30 AM	RICH-RC-5016 REVISION 7
SC			Barcotl	Prep1C	4/30/2008 9:53:44 AM	RICH-RC-5016 REVISION 7
SC			ManisD	InSep1	4/30/2008 9:59:03 AM	RICH-RC-5006 REV 7
SC			ManisD	Sep1C	5/13/2008 4:27:02 PM	RICH-RC-5006 REV 7
SC			DAWKINSO	InCnt1	5/13/2008 4:49:47 PM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	Cnt1C	5/13/2008 9:55:36 PM	RICH-RD-0007 REVISION 6
SC			ManisD	InSep2	5/14/2008 7:24:37 AM	RICH-RC-5071 REV 5
SC			DAWKINSO	InCnt2	5/21/2008 8:39:46 PM	RICH-RD-0003 REVISION 5
SC			BlackCL	CalcC	5/23/2008 7:30:02 AM	RICH-RD-0003 REVISION 5
SC			nortonj	Rev1C	6/9/2008 11:00:56 AM	RICH-RC-0002 REV 8
AC			Barcotl	4/30/2008 9:53:44		
AC			ManisD	4/30/2008 9:59:03		
AC			ManisD	4/30/2008 1:58:18 PM		
AC			ManisD	5/13/2008 4:27:02 PM		
AC			DAWKINSO	5/13/2008 4:49:47 PM		
AC			DAWKINSO	5/13/2008 9:55:36 PM		
AC			ManisD	5/14/2008 7:24:37		
AC			DAWKINSO	5/21/2008 8:39:46 PM		
AC			BlackCL	5/23/2008 7:30:02		
AC			nortonj	6/9/2008 11:00:56		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 11

ICOCFractions v4.8.33

TestAmerica

5/2/2008 8:38:42 AM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 05/22/2008

Sep1 DT/Tm Tech:

Batch: 8113288 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 8113288 AWTA, 8113291 BNTB, 8113300 AZS7, 8113301 BCS8,

Prep Tech: ,Barcotl / Bock 8.

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KKVQ1-1-AD J8D080110-1-SAMP 04/07/2008 11:54		2000.03g,in AmtRec: VIAL20,LP,3X4LP #Containers: 5			100mcs	200	615	1437	5/12/08	Scr: Alpha: 4.84E-07 uCi/Sa Beta: -1.33E-06 uCi/Sa
2 KKVQ7-1-AD J8D080110-2-SAMP 04/07/2008 10:13		2000.02g,in AmtRec: VIAL20,LP,3X4LP #Containers: 5					614	1435		Scr: Alpha: 8.56E-07 uCi/Sa Beta: 2.46E-07 uCi/Sa
3 KKVRA-1-AA J8D080110-3-SAMP 04/07/2008 09:33		2000.02g,in AmtRec: VIAL20,LP,2X4LP #Containers: 4					614	1439		Scr: Alpha: 6.05E-07 uCi/Sa Beta: 1.88E-06 uCi/Sa
4 KLC3P-1-AA J8D150322-1-SAMP 04/15/2008 09:45		2000.00g,in AmtRec: 20ML,4XLP,3X4LP #Containers: 8					617	1439		Scr: Alpha: -7.31E-05 uCi/Sa Beta: 3.09E-04 uCi/Sa
5 KLC3P-1-AF-X J8D150322-1-DUP 04/15/2008 09:45		ISV IB 5/2/08 AmtRec: 20ML,4XLP,3X4LP #Containers: 8					615	1809	5/12/08	Scr: Alpha: -7.31E-05 uCi/Sa Beta: 3.09E-04 uCi/Sa
6 KLQMQ-1-AA-B J8D220000-288-BLK 04/15/2008 09:45		2000.01g,in AmtRec: #Containers: 1				200	610	1439	5/12/08	Scr: Alpha: Beta:
7 KLQMQ-1-AC-C J8D220000-288-LCS 04/15/2008 09:45		2000.01g,in AmtRec: #Containers: 1	QCAG1468 04/02/08,pd 07/15/08				~~615~~ 611 5/12/08	1811	5/12/08	Scr: Alpha: Beta:

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

115

5/2/2008 8:38:43 AM

Sample Preparation/Analysis

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

Balance Id:1120373922
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,Barcotl

AnalyDueDate: 05/22/2008

Batch: 8113288 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:

Comments: not enough sample for dup due to ISV Please recount on seperate detector

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

KKVQ11AD-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:

KLQMQ1AA-BLK:

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

KLQMQ1AC-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						

KKVQ11AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KLQMQ1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KLQMQ1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

5/14/2008 1:22:06 PM

ICOC Fraction Transfer/Status Report

ByDate: 5/15/2007, 5/19/2008, Batch: '8113288', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8113288						
AC		**Rev1C**	**Barcotl**	5/2/2008 8:50:10 AM		
SC			wagarr	IsBatched	4/22/2008 2:20:06 PM	ICOC_RADCALC v4.8.32
SC			Barcotl	InPrep	5/2/2008 8:50:10 AM	RICH RC 5017 REVISION 6
SC			Barcotl	Prep1C	5/2/2008 8:50:41 AM	RICH RC 5017 REVISION 6
SC			BockJ	InPrep2	5/7/2008 11:45:27 AM	RICH-RC-5017 REVISION 6
SC			BockJ	Prep2C	5/12/2008 11:10:35 AM	RICH-RC-5017 REVISION 6
SC			BlackCL	InCnt1	5/12/2008 11:17:55 AM	RICH-RD-0007 REVISION 6
SC			ClarkR	CalcC	5/13/2008 8:06:30 AM	RICH-RD-0007 REVISION 6
SC			nortonj	Rev1C	5/14/2008 1:21:49 PM	RICH-RC-0002 REV 8
AC			**Barcotl**	5/2/2008 8:50:41 AM		
AC			**BockJ**	5/7/2008 11:45:27		
AC			**BockJ**	5/12/2008 11:10:35		
AC			**BlackCL**	5/12/2008 11:17:55		
AC			**ClarkR**	5/13/2008 8:06:30		
AC			**nortonj**	5/14/2008 1:21:49 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.33

5/14/2008 3:58:01 PM

Sample Preparation/Analysis

Balance Id:1120482733

884868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 05/19/2008 W053669

Sep1 DT/Tm Tech:

Batch: 8113291 WATER pCi/L

PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: HarrisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KKPVQ-1-AA J8D040140-1-SAMP 04/03/2008 09:29		3858.50g,in AmtRec: 20ML,3XLP,2X4LP #Containers: 6	ITA7182 05/01/08		35.0	100	L2	2048	5/20/08	Scr: Alpha: -2.10E-07 uCi/Sa Beta: -1.56E-07 uCi/Sa
2 KKPV5-1-AA J8D040140-2-SAMP 04/03/2008 09:29		3845.50g,in AmtRec: 20ML,3XLP,2X4LP #Containers: 6	ITA7183 05/01/08		34.4		L4	2049		Scr: Alpha: -9.70E-07 uCi/Sa Beta: 2.27E-06 uCi/Sa
3 KKPX9-1-AA J8D040146-2-SAMP 04/02/2008 12:35		3861.20g,in AmtRec: 20ML,3XLP,2X4LP #Containers: 6	ITA7184 05/01/08		34.5		L5	2050		Scr: Alpha: -1.32E-06 uCi/Sa Beta: 1.30E-06 uCi/Sa
4 KKP0Q-1-AA J8D040153-1-SAMP 04/03/2008 10:32		3904.90g,in AmtRec: 20ML,3XLP,2X4LP #Containers: 6	ITA7185 05/01/08		34.8		L2	2234		Scr: Alpha: -1.75E-07 uCi/Sa Beta: -5.20E-07 uCi/Sa
5 KKP0W-1-AA J8D040153-2-SAMP 04/03/2008 11:44		3906.30g,in AmtRec: 20ML,3XLP,2X4LP #Containers: 6	ITA7186 05/01/08	DB 5/20/08	~~35.1~~ 34.8		L4	2235		Scr: Alpha: -1.06E-06 uCi/Sa Beta: 2.39E-06 uCi/Sa
6 KKVQ1-1-AE J8D080110-1-SAMP 04/07/2008 11:54		3859.40g,in AmtRec: VIAL20,LP,3X4LP #Containers: 5	ITA7187 05/01/08		~~33.6~~ 35.1		L5	2236		Scr: Alpha: 4.84E-07 uCi/Sa Beta: -1.33E-06 uCi/Sa
7 KKVQ7-1-AE J8D080110-2-SAMP 04/07/2008 10:13		3864.20g,in AmtRec: VIAL20,LP,3X4LP #Containers: 5	ITA7188 05/01/08		33.6		L2	0020		Scr: Alpha: 8.56E-07 uCi/Sa Beta: 2.46E-07 uCi/Sa

5/14/2008 3:58:02 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 05/19/2008

Sep1 DT/Tm Tech:

Batch: 8113291 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 KKVRA-1-AC J8D080110-3-SAMP 04/07/2008 09:33	AmtRec: VIAL20,LP,2X4LP #Containers: 4	3890.70g,in	ITA7189 05/01/08		34.3	100	L4	1022	5/20/08	Scr: Alpha: 6.05E-07 uCi/Sa Beta: 1.68E-06 uCi/Sa
9 KKVRT-1-AA J8D080115-1-SAMP 04/07/2008 11:02	AmtRec: VIAL20,3XLP,2X4LP #Containers: 6	3900.80g,in	ITA7190 05/01/08		34.3		L5	0023		Scr: Alpha: -1.20E-06 uCi/Sa Beta: 1.30E-06 uCi/Sa
10 KKVR4-1-AA J8D080115-2-SAMP 04/07/2008 08:00	AmtRec: VIAL20,3XLP,2X4LP #Containers: 6	3890.10g,in	ITA7191 05/01/08		33.8		L2	0006	6/27/08	Scr: Alpha: 3.48E-07 uCi/Sa Beta: 1.18E-06 uCi/Sa
11 KK1JT-1-AA J8D090321-1-SAMP 04/08/2008 12:35	AmtRec: 20ML,2X4LP #Containers: 3	3896.30g,in	ITA7192 05/01/08		34.5		L4	0707		Scr: Alpha: 1.04E-03 uCi/Sa Beta: 3.53E-04 uCi/Sa
12 KK1JT-1-AC-X J8D090321-1-DUP 04/08/2008 12:35	AmtRec: 20ML,2X4LP #Containers: 3	3909.60g,in	ITA7193 05/01/08		35.0		L5	0707		Scr: Alpha: 1.04E-03 uCi/Sa Beta: 3.53E-04 uCi/Sa
13 KLC3P-1-AC J8D150322-1-SAMP 04/15/2008 09:45	AmtRec: 20ML,4XLP,3X4LP #Containers: 8	3902.90g,in	ITA7194 05/01/08		34.4		L2	0855	5/21/08	Scr: Alpha: -7.31E-05 uCi/Sa Beta: 3.09E-04 uCi/Sa
14 KLC39-1-AA J8D150322-2-SAMP 04/15/2008 10:44	AmtRec: 20ML,2X4LP #Containers: 3	3921.70g,in	ITA7195 05/01/08		34.4		L4	0857		Scr: Alpha: -1.11E-04 uCi/Sa Beta: 6.84E-04 uCi/Sa

119

5/14/2008 3:58:04 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 05/19/2008

Sep1 DT/Tm Tech:

Batch: 8113291 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 KLC4E-1-AA J8D150322-3-SAMP 04/15/2008 11:18		3908.50g,in AmtRec: 20ML,2X4LP	ITA7196 05/01/08 #Containers: 3		35.2	100	L5	0858 Scr:	5/21/08 KG Alpha: -2.63E-06 uCi/Sa	Beta: 3.31E-04 uCi/Sa
16 KLQMX-1-AA-B J8D220000-291-BLK 04/08/2008 12:35		3913.30g,in AmtRec:	ITA7197 05/01/08 #Containers: 1		35.5		L2 Scr:	1104 Alpha:	5/21/08 KG Beta:	
17 KLQMX-1-AC-C J8D220000-291-LCS 04/08/2008 12:35		3955.70g,in AmtRec:	ISD0844 04/22/08 #Containers: 1		36.1		L4 Scr:	1106 Alpha:	Beta:	

Comments: ~~PAX~~ OUT 5/14/08 DW 5/14/08

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

KKPVQ1AA-SAMP Constituent List:

I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
KLQMX1AA-BLK:					
I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
KLQMX1AC-LCS:					
I-129	RDL:5	pCi/L	LCL:70	UCL:130	RPD:20

KKPVQ1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KLQMX1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KLQMX1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

120

5/22/2008 9:48:37 AM

ICOC Fraction Transfer/Status Report

ByDate: 5/23/2007, 5/27/2008, Batch: '8113291', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8113291						
AC		**Rev1C**	**HarrisD**	5/14/2008 3:00:53 PM		
SC			wagarr	IsBatched	4/22/2008 2:20:06 PM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	5/14/2008 3:00:53 PM	rich-rc-5015 rEVISION 6
SC			HarrisD	Prep1C	5/14/2008 4:00:43 PM	RICH-RC-5017 REVISION 6
SC			BostedD	InPrep2	5/15/2008 7:35:35 AM	RICHRC5025 REVISION 4
SC			BostedD	Prep2C	5/20/2008 6:44:32 PM	RICHRC5025 REVISION 4
SC			DAWKINSO	InCnt1	5/21/2008 3:04:32 PM	RICH-RD-0007 REVISION 6
SC			nortonj	Rev1C	5/22/2008 9:48:30 AM	RICH-RC-0002 REV 8
AC			**HarrisD**	5/14/2008 4:00:43 PM		
AC			**BostedD**	5/15/2008 7:35:35		
AC			**BostedD**	5/20/2008 6:44:32 PM		
AC			**DAWKINSO**	5/21/2008 3:04:32 PM		
AC			**nortonj**	5/22/2008 9:48:30		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.33

TestAmerica

04/30/2008 10:35:04 AM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 05/19/2008

Sep1 DT/Tm Tech:

Batch: 8113304 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,Barcotl

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KKPT9-1-AA J8D040137-1-SAMP 04/03/2008 09:02	AmtRec: 20ML,3XLP	125.02g,in #Containers: 4		60		Scr:	Alpha: 1.75E-07 uCi/Sa	Beta: 5.20E-07 uCi/Sa
2 KKPT9-1-AC-X J8D040137-1-DUP 04/03/2008 09:02	AmtRec: 20ML,3XLP	125.01g,in #Containers: 4				Scr:	Alpha: 1.75E-07 uCi/Sa	Beta: 5.20E-07 uCi/Sa
3 KKPVG-1-AA J8D040137-2-SAMP 04/03/2008 10:02	AmtRec: 20ML,3XLP	125.00g,in #Containers: 4				Scr:	Alpha: 2.81E-07 uCi/Sa	Beta: -9.45E-09 uCi/Sa
4 KKPVG-1-AC-S J8D040137-2-MS 04/03/2008 10:02	AmtRec: 20ML,3XLP	125.00g,in #Containers: 4	TCSG2026 04/22/08,pd 01/10/06,r			Scr:	Alpha: 2.81E-07 uCi/Sa	Beta: -9.45E-09 uCi/Sa
5 KLQPF-1-AA-B J8D220000-304-BLK 04/03/2008 09:02	AmtRec:	125.02g,in #Containers: 1				Scr:	Alpha:	Beta:
6 KLQPF-1-AC-C J8D220000-304-LCS 04/03/2008 09:02	AmtRec:	125.01g,in #Containers: 1	TCSE2231 04/11/08,pd 01/10/06,r			Scr:	Alpha:	Beta:
7 KLQPF-1-AD-BN J8D220000-304-IBLK 04/03/2008 09:02	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Sample Preparation/Analysis

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

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

AnalyDueDate: 05/19/2008

Batch: 8113304 pCi/L
SEQ Batch, Test: None

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

Comments:

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

KKPT91AA-SAMP Constituent List:
Tc-99 RDL:1.50E+01 pCi/L LCL:70 UCL:130 RPD:20
KKPVG1AC-MS:

KLQPF1AA-BLK:
Tc-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:
KLQPF1AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
KLQPF1AD-IBLK:
Tc-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:

KKPT91AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KKPVG1AC-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KLQPF1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KLQPF1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KLQPF1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TestAmerica

5/19/2008 3:13:45 PM

ICOC Fraction Transfer/Status Report

ByDate: 5/20/2007, 5/24/2008, Batch: '8113304', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8113304						
AC		**Rev1C**	**Barcotl**	4/30/2008 10:37:40		
SC			wagarr	IsBatched	4/22/2008 2:20:06 PM	ICOC_RADCALC v4.8.32
SC			Barcotl	InPrep	4/30/2008 10:37:40 AM	RICH-RC-5016 REVISION 7
SC			Barcotl	Prep1C	4/30/2008 10:37:54 AM	RICH-RC-5016 REVISION 7
SC			DAWKINSO	InCnt1	5/8/2008 4:54:43 PM	RICH-RD-0001 REVISION 4
SC			ClarkR	CalcC	5/9/2008 12:03:18 PM	RICH-RD-0001 REVISION 4
SC			nortonj	Rev1C	5/19/2008 3:13:38 PM	RICH-RC-0002 REV 8
AC			**Barcotl**	4/30/2008 10:37:54		
AC			**DAWKINSO**	5/8/2008 4:54:43 PM		
AC			**ClarkR**	5/9/2008 12:03:18 PM		
AC			**nortonj**	5/19/2008 3:13:38 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.33

6/5/2008 3:07:07 PM

Sample Preparation/Analysis

Balance Id:

Pipet #:

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Sep1 DT/Tm Tech:

AnalyDueDate: 05/19/2008

Batch: 8126482 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 8113287 CLTL, 8113291 BNTB, 8113310 5SS3, 8126482 5SS3,

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 KKPX7-2-AA J8D040146-1-SAMP 04/01/2008 08:39	AmtRec: 20ML,2XLP	#Containers: 3				Scr:	Alpha: 1.09E-07 uCi/Sa	Beta: 1.26E-07 uCi/Sa
2 KKPX7-2-AC-X J8D040146-1-DUP 04/01/2008 08:39	AmtRec: 20ML,2XLP	#Containers: 3				Scr:	Alpha: 1.09E-07 uCi/Sa	Beta: 1.26E-07 uCi/Sa
3 KKP0H-2-AA J8D040148-1-SAMP 04/01/2008 09:22	AmtRec: 20ML,5XLP	#Containers: 6				Scr:	Alpha: -1.01E-07 uCi/Sa	Beta: 3.70E-07 uCi/Sa
4 KMKV4-1-AA-B J8E050000-482-BLK 04/01/2008 09:22	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
5 KMKV4-1-AC-C J8E050000-482-LCS 04/01/2008 09:22	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
6 KMKV4-1-AD-B J8E050000-482-BLK 04/01/2008 09:22	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Sample Preparation/Analysis

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

AnalyDueDate: 05/19/2008

Batch: 8126482 pCi/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

KKPX72AA-SAMP Constituent List:

KMKV41AA-BLK:

KMKV41AC-LCS:

KMKV41AD-BLK:

KKPX72AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KMKV41AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KMKV41AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KMKV41AD-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

RE-COUNT REQUEST

DUE DATE 5-19

CUSTOMER PGW

ANALAYSIS C-14

MATRIX H_2O

LOT NUMBER J8D040146, 040148

SAMPLE DELIVERY GROUP WO 5369

OLD BATCH NUMBER 8113310

NEW BATCH NUMBER ~~8115~~ JW 5-6-8 8126482

LAB SAMPLE ID	CLIENT ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1) ALL	384868	CONFIRM SAMPLE ORDER PLEASE
2)		
3)		DUPS OUT
4)		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		
13)		
14)		
15)		
16)		
17)		
18)		
19)		
20)		

RC-126, 12/07, Rev 5

/22/2008 2:16:54 PM

Sample Preparation/Analysis

Balance Id: VA

Pipet #:

Sep1 DT/Tm Tech: 5-1-08 [illegible]

Sep2 DT/Tm Tech:

Prep Tech:

984868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 05/19/2008 W05309

Batch: 8113310 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	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KKPX7-1-AA J8D040146-1-SAMP 04/01/2008 08:39		AmtRec: 20ML,2XLP	#Containers: 3			Scr:	Alpha: 1.09E-07 uCi/Sa	Beta: 1.26E-07 uCi/Sa
2 KKPX7-1-AC-X J8D040146-1-DUP 04/01/2008 08:39		AmtRec: 20ML,2XLP	#Containers: 3			Scr:	Alpha: 1.09E-07 uCi/Sa	Beta: 1.26E-07 uCi/Sa
3 KKP0H-1-AA J8D040148-1-SAMP 04/01/2008 09:22		AmtRec: 20ML,5XLP	#Containers: 6			Scr:	Alpha: -1.01E-07 uCi/Sa	Beta: 3.70E-07 uCi/Sa
4 KLQPR-1-AA-B J8D220000-310-BLK 04/01/2008 08:39		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
5 KLQPR-1-AC-C J8D220000-310-LCS 04/01/2008 08:39		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 KLQPR-1-AD-B J8D220000-310-BLK 04/01/2008 08:39		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

5/22/2008 2:16:54 PM

Sample Preparation/Analysis

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

AnalyDueDate: 05/19/2008

Batch: 8113310 pCi/L
SEQ Batch, Test: None

Balance Id: N/A
Pipet #:
Sep1 DT/Tm Tech: 5-1-08 am
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

KKPX71AA-SAMP Constituent List:
C-14 RDL:2.00E+02 pCi/L LCL:70 UCL:130 RPD:20
KLQPR1AA-BLK:

KLQPR1AC-LCS:

KLQPR1AD-BLK:

KKPX71AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KLQPR1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KLQPR1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KLQPR1AD-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

129

5/8/2008 10:55:55 AM

ICOC Fraction Transfer/Status Report

ByDate: 5/9/2007, 5/13/2008, Batch: '8126482', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8126482						
AC		Rev1C	BlackCL	5/6/2008 11:52:52		
SC			nortonj	IsBatched	5/5/2008 3:07:00 PM	ICOC_RADCALC v4.8.32
SC			BlackCL	InCnt1	5/6/2008 11:52:52 AM	RICH-RD-0001 REVISION 4
SC			ClarkR	CalcC	5/7/2008 9:17:18 AM	RICH-RD-0001 REVISION 4
SC			nortonj	Rev1C	5/8/2008 10:40:46 AM	RICH-RC-0002 REV 8
AC			ClarkR	5/7/2008 9:17:18 AM		
AC			nortonj	5/8/2008 10:40:46		

AC: Accepting Entry; SC: Status Change

/15/2008 12:53:43 PM

Sample Preparation/Analysis

Balance Id:

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

884868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 05/29/2008

Batch: 8106324 WATER mg/L
SEQ Batch, Test: None All Tests: 8106324 88EA,

PM, Quote: SS , 57671

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 KK9LD-1-AA J8D140189-1-SAMP 04/14/2008 09:39		AmtRec: VIAL20,500G	#Containers: 2			Scr:	Alpha:	Beta:
2 KK9LD-1-AC-S J8D140189-1-MS 04/14/2008 09:39		AmtRec: VIAL20,500G	#Containers: 2			Scr:	Alpha:	Beta:
3 KK9LD-1-AD-D J8D140189-1-MSD 04/14/2008 09:39		AmtRec: VIAL20,500G	#Containers: 2			Scr:	Alpha:	Beta:
4 KK9LD-1-AE-X J8D140189-1-DUP 04/14/2008 09:39		AmtRec: VIAL20,500G	#Containers: 2			Scr:	Alpha:	Beta:
5 KLCC1-1-AA-B J8D150000-324-BLK 04/14/2008 09:39		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 KLCC1-1-AC-C J8D150000-324-LCS 04/14/2008 09:39		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Sample Preparation/Analysis

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

AnalyDueDate: 05/29/2008

Batch: 8106324 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

KK9LD1AA-SAMP Constituent List:
HEXCHROME RDL:0.002 mg/L LCL:85 UCL:115 RPD:20
KK9LD1AC-MS Constituent List:

KK9LD1AD-MSD:

KLCC11AA-BLK:

KLCC11AC-LCS:

KK9LD1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KK9LD1AC-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KK9LD1AD-MSD:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KLCC11AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KLCC11AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TestAmerica

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8F090190 W05424 DUE 72408 KPLVT

C.O.C. # **S08-005-182**

Page 1 of 1

Collector: R. D. Julian	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: S08-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, MAY 2008	HNF-N-506-12	Ice Chest No.: GASS-5 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
B1V7X5		W	06/05/08	1056	1x20-mL P	Activity Scan	None
B1V7X5		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R.D. Julian			0930 6/9/2008	RA SHEPARD			0930 6/9/2008
RA SHEPARD			1430 6/9/08	LILLANE TAL			1430 6908
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

Date/Time Received: 6908 1430 GM Screen Result 0.1K

Client: PGW SDG #: W05424 NA[ ] SAF #: 508-005 NA [ ]

Work Order Number: 18F090190 Chain of Custody # 508-005-182

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: 6908

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, Rev. 7, 1/08

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8F090197 W05424 DUE 72408 KPLWM

C.O.C. # **I08-043-11**

Page 1 of 1

Collector KE Hamilton	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-043	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2UP1, JUNE 2008	HNF-N-506-15	**Ice Chest No.** GWS/022 **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
B1VKT9		W	6-9-08	1018	1x20-mL P	Activity Scan	None
B1VKT9		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1VKT9		W			2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1VKT9		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1VKT9		W			1x1000-mL G/P	NP237_LLE_PLATE_AEA:Np-237(1)	HNO3 to pH <2
B1VKT9		W			2x1000-mL G/P	Selenium-79	HNO3 to pH <2
B1VKT9		W			1x1000-mL G/P	UISO_PLATE_AEA: List-1 (3)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
KE Hamilton	Kevin E Hamilton		JUN 09 2008 1420		W W LANE	TAL	6908 1420
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8F090197 W05424 DUE 7 24 08 KPLWR

C.O.C. # **I08-043-12**

Page 1 of 1

Collector KE Hamilton	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. I08-043	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 2UP1 JUNE 2008	HNF-N-506-15	Ice Chest No. GWS/022 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
B1VKV0		W	6-9-08	1018	1x20-mL P	Activity Scan	None
B1VKV0		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1VKV0		W	↓	↓	2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1VKV0		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1VKV0		W	↓	↓	1x1000-mL G/P	NP237_LLE_PLATE_AEA:Np-237(1)	HNO3 to pH <2
B1VKV0		W	↓	↓	2x1000-mL G/P	Selenium-79	HNO3 to pH <2
B1VKV0		W	↓	↓	1x1000-mL G/P	UISO_PLATE_AEA: List-1 (3)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
KE Hamilton	Kevin E Hamilton	[signature]	JUN 09 2008 1420	[signature]	W LANE	TAL	6 9 08 1420
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

Date/Time Received: 6908 1420 GM Screen Result O.K

Client: PGW SDG #: W05424 NA[ ] SAF #: I08-043 NA [ ]

Work Order Number: J8F090197 Chain of Custody # I08-043-11,-12

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: RJR Date: 6908

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023 Rev. 7 1/08

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8F090190 W05424 DUE 72408 KPLVT

C.O.C. # **S08-005-182**

Page 1 of 1

Collector R. D. Julian	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. S08-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, MAY 2008	HNF-N-506-12	**Ice Chest No.** GUSS-5 **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
B1V7X5		W	06/05/08	1056	1x20-mL P	Activity Scan	None
B1V7X5		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R.D. Julian			0930 6/9/2008	RA SHEPARD			0930 6/9/2008
RA SHEPARD			1430 6/9/08	LILLONE TAL			1430 6/9/08
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

Date/Time Received: 6908 1430 GM Screen Result 0.1K

Client: PGW SDG #: W05424 NA[ ] SAF #: 508-005 NA [ ]

Work Order Number: 18F090190 Chain of Custody # 508-005-182

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: 6908

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, Rev. 7, 1/08

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8F090197 W05424 DUE 72408 KPLWM

C.O.C. # **I08-043-11**

Page 1 of 1

Collector: KE Hamilton	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I08-043	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2UP1, JUNE 2008	HNF-N-506-15	Ice Chest No.: GWS/022 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
B1VKT9		W	6-9-08	1018	1x20-mL P	Activity Scan	None
B1VKT9		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1VKT9		W			2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1VKT9		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1VKT9		W			1x1000-mL G/P	NP237_LLE_PLATE_AEA:Np-237(1)	HNO3 to pH <2
B1VKT9		W			2x1000-mL G/P	Selenium-79	HNO3 to pH <2
B1VKT9		W			1x1000-mL G/P	UISO_PLATE_AEA: List-1 (3)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
KE Hamilton	Kevin E Hamilton		JUN 09 2008 1420		W LANE	TAL	6908 1420
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8F090197 W05424 DUE 7 24 08 KPLWR

C.O.C. # **I08-043-12**

Page 1 of 1

Collector KE Hamilton	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. I08-043	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 2UP1 JUNE 2008	HNF-N-506-15	Ice Chest No. GWS/022 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**
200 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1VKV0		W	6-9-08	1018	1x20-mL P	Activity Scan	None
B1VKV0		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1VKV0		W	↓	↓	2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1VKV0		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1VKV0		W	↓	↓	1x1000-mL G/P	NP237_LLE_PLATE_AEA:Np-237(1)	HNO3 to pH <2
B1VKV0		W	↓	↓	2x1000-mL G/P	Selenium-79	HNO3 to pH <2
B1VKV0		W	↓	↓	1x1000-mL G/P	UISO_PLATE_AEA: List-1 (3)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
KE Hamilton	Kevin E Hamilton	[signature]	JUN 09 2008 1420	[signature]	W LANE	TAL	6 9 08 1420
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 6 9 08 1420 GM Screen Result 0.1K

Client: PGW SDG #: W05424 NA[ ] SAF #: I08-043 NA [ ]

Work Order Number: J8F090197 Chain of Custody # I08-043-11,-12

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: RJR Date: 6 9 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