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JUL 28 2008
EDMC

Analytical Data Package Prepared For

Fluor Hanford

Radiochemical Analysis By

TestAmerica TARL

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

Data Package Contains _____ Pages

Report Nbr: 39400

RECEIVED JULY 2, 2008

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05409	S08-001	B1RTP8	J8E080364-1	KMVLF1AA	9KMVLF10	8141495
		B1RTP8	J8E080364-1	KMVLF1AC	9KMVLF10	8141496
		B1RTP8	J8E080364-1	KMVLF1AD	9KMVLF10	8141494
		B1RTP8	J8E080364-1	KMVLF1AE	9KMVLF10	8141493
		B1RTP8	J8E080364-1	KMVLF1AF	9KMVLF10	8141497
	S08-002	B1T404	J8E080369-1	KMVLW1A	9KMVLW10	8141494
		B1T404	J8E080369-1	KMVLW1A	9KMVLW10	8141493
		B1T404	J8E080369-1	KMVLW1A	9KMVLW10	8141497
		B1T405	J8E080369-2	KMVL21AA	9KMVL210	8141494
		B1T405	J8E080369-2	KMVL21AC	9KMVL210	8141493
		B1T405	J8E080369-2	KMVL21AD	9KMVL210	8141497
	S08-004	B1TWH9	J8E090374-1	KM0G71AA	9KM0G710	8141504
		B1TWH9	J8E090374-1	KM0G71AC	9KM0G710	8141493
	A08-004	B1TVM7	J8E090377-1	KM0G81AA	9KM0G810	8141499
		B1TVM7	J8E090377-1	KM0G81AC	9KM0G810	8141498

Comments:

REV. 1

0078524

Report Nbr: 39400

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05409	W08-005	B1V8W4	J8E090379-1	KM0HF1AA	9KM0HF10	8141494
		B1V8W2	J8E090379-2	KM0HK1AA	9KM0HK10	8141494
		B1V8W2	J8E090379-2	KM0HK1AC	9KM0HK10	8141502
	I08-027	B1TJL6	J8E120170-1	KM22V1AA	9KM22V10	8141497
		B1TJL5	J8E120170-2	KM2202AA	9KM22020	8175548
		B1TJF8	J8E120170-3	KM2221AD	9KM22210	8141497
		B1TJF8	J8E120170-3	KM2221AE	9KM22210	8141496
	S08-005	B1V7K7	J8E130313-1	KM5HT1AA	9KM5HT10	8141494
		B1V7K8	J8E130313-2	KM5H11AA	9KM5H110	8141494
		B1V7V4	J8E130313-3	KM5H41AA	9KM5H410	8141494
		B1V7V4	J8E130313-3	KM5H41AC	9KM5H410	8141493
	W08-005	B1V8V1	J8E130315-1	KM5JR1AA	9KM5JR10	8141502
		B1V8V0	J8E130315-2	KM5J01AA	9KM5J010	8141502
		B1V8M5	J8E130315-3	KM5J21AA	9KM5J210	8141502
		B1V8M9	J8E130315-4	KM5J51AA	9KM5J510	8141494
		B1V8V8	J8E130315-5	KM5KA1AA	9KM5KA10	8141494
		B1V8V8	J8E130315-5	KM5KA1AC	9KM5KA10	8141502
	I08-038	B1V6H9	J8E140355-1	KM7101AA	9KM71010	8141493
		B1V6F4	J8E140355-2	KM7141AA	9KM71410	8141493
		INTRA-LAB BLANK	J8E200000-494	KNJTP1AA	9KNJTP10	8141494

Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Amended Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

July 1, 2008

Attention: Steve Trent

SAF Number	:	S08-001, S08-002, S08-004, A08-004, W08-005, I08-027, S08-005, I08-038
Date SDG Closed	:	May 14, 2008
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05409
Data Deliverable	:	45-Day / Summary

AMENDED CASE NARRATIVE

I. Introduction

Between May 8, 2008 and May 14, 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
B1RTP8	KMVLF	5/08/08	WATER
B1T404	KMVLW	5/08/08	WATER
B1T405	KMVL2	5/08/08	WATER
B1TWH9	KM0G7	5/09/08	WATER
B1TVM7	KM0G8	5/09/08	WATER
B1V8W4	KM0HF	5/09/08	WATER
B1V8W2	KM0HK	5/09/08	WATER
B1TJL6	KM22V	5/12/08	WATER
B1TJL5	KM220	5/12/08	WATER
B1TJF8	KM222	5/12/08	WATER
B1V7K7	KM5HT	5/13/08	WATER
B1V7K8	KM5H1	5/13/08	WATER
B1V7V4	KM5H4	5/13/08	WATER

B1V8V1	KM5JR	5/13/08	WATER
B1V8V0	KM5J0	5/13/08	WATER
B1V8M5	KM5J2	5/13/08	WATER
B1V8M9	KM5J5	5/13/08	WATER
B1V8V8	KM5KA	5/13/08	WATER
B1V6H9	KM710	5/14/08	WATER
B1V6F4	KM714	5/14/08	WATER

II. Sample Receipt

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

III. Analytical Results/Methodology

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

The requested analyses were:

Gas Proportional Counting
Gross Alpha by method RICH-RC-5014
Gross Beta by method RICH-RC-5014
Strontium-90 by method RICH-RC-5006
Gamma Spectroscopy
Gamma Spec (LL) by method RICH-RC-5017
Iodine-129 (LL) by method RICH-RC-5025
Liquid Scintillation Counting
Technetium-99 by TEVA method RICH-RC-5065
Technetium-99 by method RICH-RC-5078
Tritium by method RICH-RC-5007
Laser Induced Phosphorimetry
Total Uranium by method RICH-RC-5058

IV. Quality Control

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

QC and sample results are reported in the same units.

V. Comments

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:
The LCS, batch blank, sample and sample duplicate (B1RTP8) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:
Samples B1TJF8 and B1TJF8 DUP were analyzed with reduced aliquots based on weight screens. Except as noted, the LCS, batch blank, samples and sample duplicate (B1TJF8) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006
Sample B1TJL5 was dropped during flaming and the LCS recovery was not within acceptable criteria. The sample (B1TJL5) and the LCS were re-milked; the data is accepted. Except as noted, the LCS, batch blank, samples and sample duplicate (B1T404) results are within1contractual requirements.

Gamma Spectroscopy

Gamma Spec (LL) by method RICH-RC-5017:
There was insufficient volume for a duplicate. Sample B1V7K7 was recounted on a different detector for the duplicate (B1V7K7 DUP). Except as noted, the LCS, batch blank, samples and sample duplicate (B1V7K7) results are within contractual requirements.

The original report did not include any results for beryllium and ruthenium, sample B1T404 (email dated 6/30/08).
The half life had already passed by the time sample B1T404 was counted therefore the beryllium and ruthenium constituents could not be calculated.

Iodine-129 (LL) by method RICH-RC-5025:
The LCS, batch blank, samples and sample duplicate (B1V6H9) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by TEVA method RICH-RC-5065:
The LCS, batch blank, sample, sample duplicate (B1TVM7), and sample matrix spike (B1TVM7) results are within contractual requirements.

Technetium-99 by method RICH-RC-5078:
The LCS, batch blank, samples, sample duplicate (BV8V1), and sample matrix spike (B1V8V0) results are within contractual requirements.

Tritium by method RICH-RC-5007:
The LCS, batch blank, sample and sample duplicate (B1TWH9) results are within contractual requirements.

The collection date was incorrect on the QC samples (email dated 6/30/08).The dates were corrected and re-reported.

Fluor Hanford
July 1, 2008

Total Uranium

Total Uranium by method RICH-RC-5058:

The LCS, batch blank, samples, sample duplicate (B1TVM7), and sample matrix spike (B1TVM7) 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

Sandra Seger
Project Manager

Seger, Sandra

From: Felmy, Diana [diana.felmy@pnl.gov]
Sent: Monday, June 30, 2008 10:59 AM
To: Seger, Sandra
Cc: ^CPP Sample Management; Widrig, Dana L
Subject: FW: W05409 Data Report and EDD
Attachments: W05409.pdf; W05409.Edd

Sandra,
In this EDD sample B1T404 GAMMA the result and MDA are missing for the beryllium and ruthenium constituents. Also, the collect date for all of the QC samples for tritium is 6/2/08. The collect date of the sample was 5/9/08. Please correct the EDD and resubmit. Thanks.
Diana

From: Wagar, Rhonda [mailto:Rhonda.Wagar@testamericainc.com]
Sent: Friday, June 27, 2008 4:34 PM
To: Hampt, Heidi
Cc: Widrig, Dana L; Felmy, Diana; ^CPP Sample Management; Trent, Stephen J; Seger, Sandra
Subject: W05409 Data Report and EDD

RHONDA WAGAR
Quality Assurance Specialist

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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Please consider the environment before printing this e-mail.

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.

7/1/2008 2:20:51 PM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 39400 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.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:
9KM0G710	B1TWH9		MW6-SBB-A1	S08-004	W05409					05/09/2008 09:18

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141504	H-3	10028-17-8	9.17E+01	pCi/L	1.1E+02	1.2E+02	U	2.56E+02	100.0	906.0_H3_LSC	5.00E-03	L	05/31/2008 10:26	I
8141493	I-129L	15046-84-1	2.24E-01	pCi/L	1.6E-01	1.6E-01	U	3.29E-01	93.0	I129LL_SEP_LEPS	3.8151E+00	L	06/12/2008 11:49	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KM0G810	B1TVM7		MW6-SBB-A1	A08-004	W05409					05/09/2008 09:18

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141499	TC-99	14133-76-7	4.46E+00	pCi/L	4.0E+00	5.8E+00	U	9.50E+00	100.0	TC99_ETVDSK_LS	1.2501E-01	L	06/11/2008 19:50	I
8141498	Uranium	7440-61-1	3.30E+00	ug/L	3.4E-01	3.4E-01		8.42E-02		UTOT_KPA	2.49E-02	ML	06/17/2008 11:29	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:
9KM0HF10	B1V8W4		MW6-SBB-A1	W08-005	W05409					05/09/2008 11:54

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141494	BE-7	13966-02-4	-7.33E+00	pCi/L	1.5E+01	1.5E+01	U	2.66E+01		GAMMALL_GS	2.0003E+00	L	06/10/2008 12:11	I
8141494	CO-60	10198-40-0	7.63E+00	pCi/L	2.7E+00	2.7E+00		2.19E+00		GAMMALL_GS	2.0003E+00	L	06/10/2008 12:11	I
8141494	CS-134	13967-70-9	-1.99E-01	pCi/L	1.6E+00	1.6E+00	U	2.76E+00		GAMMALL_GS	2.0003E+00	L	06/10/2008 12:11	I
8141494	CS-137	10045-97-3	8.61E-01	pCi/L	1.6E+00	1.6E+00	U	2.97E+00		GAMMALL_GS	2.0003E+00	L	06/10/2008 12:11	I
8141494	EU-152	14683-23-9	7.45E-01	pCi/L	3.9E+00	3.9E+00	U	6.97E+00		GAMMALL_GS	2.0003E+00	L	06/10/2008 12:11	I
8141494	EU-154	15585-10-1	8.66E-01	pCi/L	4.3E+00	4.3E+00	U	8.26E+00		GAMMALL_GS	2.0003E+00	L	06/10/2008 12:11	I
8141494	EU-155	14391-16-3	1.64E+00	pCi/L	2.6E+00	2.6E+00	U	4.72E+00		GAMMALL_GS	2.0003E+00	L	06/10/2008 12:11	I
8141494	K-40	13966-00-2	-4.35E+00	pCi/L	2.2E+01	2.2E+01	U	4.53E+01		GAMMALL_GS	2.0003E+00	L	06/10/2008 12:11	I
8141494	RU-106	13967-48-1	-6.21E+00	pCi/L	1.4E+01	1.4E+01	U	2.38E+01		GAMMALL_GS	2.0003E+00	L	06/10/2008 12:11	I
8141494	SB-125	14234-35-6	-3.95E-02	pCi/L	3.6E+00	3.6E+00	U	6.31E+00		GAMMALL_GS	2.0003E+00	L	06/10/2008 12:11	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KM0HK10	B1V8W2		MW6-SBB-A1	W08-005	W05409					05/09/2008 10:54

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141494	BE-7	13966-02-4	-5.11E+00	pCi/L	1.5E+01	1.5E+01	U	2.49E+01		GAMMALL_GS	2.0001E+00	L	06/10/2008 12:11	I
8141494	CO-60	10198-40-0	-4.79E-01	pCi/L	1.3E+00	1.3E+00	U	2.23E+00		GAMMALL_GS	2.0001E+00	L	06/10/2008 12:11	I
8141494	CS-134	13967-70-9	1.70E+00	pCi/L	1.3E+00	1.3E+00	U	2.60E+00		GAMMALL_GS	2.0001E+00	L	06/10/2008 12:11	I
8141494	CS-137	10045-97-3	5.29E-01	pCi/L	1.3E+00	1.3E+00	U	2.41E+00		GAMMALL_GS	2.0001E+00	L	06/10/2008 12:11	I

TestAmerica

rptFeadRadSummaryEdd v3.48

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

/

8141494	EU-152	14683-23-9	2.13E+00	pCi/L	3.4E+00	3.4E+00	U	6.23E+00		GAMMALL_GS	2.0001E+00	L	06/10/2008	12:11	I
8141494	EU-154	15585-10-1	-2.03E+00	pCi/L	2.9E+00	2.9E+00	U	4.76E+00		GAMMALL_GS	2.0001E+00	L	06/10/2008	12:11	I
8141494	EU-155	14391-16-3	-3.87E+00	pCi/L	2.9E+00	2.9E+00	U	4.62E+00		GAMMALL_GS	2.0001E+00	L	06/10/2008	12:11	I
8141494	K-40	13966-00-2	2.31E+00	pCi/L	2.0E+01	2.0E+01	U	3.94E+01		GAMMALL_GS	2.0001E+00	L	06/10/2008	12:11	I
8141494	RU-106	13967-48-1	-8.06E+00	pCi/L	1.4E+01	1.4E+01	U	2.23E+01		GAMMALL_GS	2.0001E+00	L	06/10/2008	12:11	I
8141494	SB-125	14234-35-6	3.96E+00	pCi/L	3.4E+00	3.4E+00	U	6.48E+00		GAMMALL_GS	2.0001E+00	L	06/10/2008	12:11	I
8141502	TC-99	14133-76-7	1.63E+02	pCi/L	8.0E+00	1.5E+01		9.71E+00	100.0	TC99_SEP_LSC	1.25E-01	L	06/12/2008	18:28	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:
9KM22020	B1TJL5		MW6-SBB-A1	I08-027	W05409					05/09/2008 13:39

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8175548	SR-90	10098-97-2	8.51E+00	pCi/L	9.5E-01	1.6E+00		1.29E+00	44.0	SRISO_SEP_PRE	9.867E-01	L	06/27/2008 05:35	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KM22210	B1TJF8		MW6-SBB-A1	I08-027	W05409					05/09/2008 10:22

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141496	BETA	12587-47-2	1.05E+01	pCi/L	2.3E+00	2.7E+00		3.56E+00	100.0	9310_ALPHABETA	1.696E-01	L	06/13/2008 08:07	I
8141497	SR-90	10098-97-2	1.55E-01	pCi/L	4.1E-01	4.6E-01	U	1.01E+00	38.5	SRISO_SEP_PRE	1.00E+00	L	06/21/2008 07:53	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KM22V10	B1TJL6		MW6-SBB-A1	I08-027	W05409					05/09/2008 07:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141497	SR-90	10098-97-2	3.26E-01	pCi/L	3.6E-01	3.6E-01	U	7.27E-01	73.1	SRISO_SEP_PRE	9.9625E-01	L	06/21/2008 07:53	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KM5H110	B1V7K8		MW6-SBB-A1	S08-005	W05409					05/13/2008 07:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141494	BE-7	13966-02-4	-1.42E+01	pCi/L	1.6E+01	1.6E+01	U	2.60E+01		GAMMALL_GS	2.0003E+00	L	06/10/2008 12:12	I
8141494	CO-60	10198-40-0	3.35E-01	pCi/L	1.6E+00	1.6E+00	U	3.07E+00		GAMMALL_GS	2.0003E+00	L	06/10/2008 12:12	I
8141494	CS-134	13967-70-9	6.57E-01	pCi/L	1.7E+00	1.7E+00	U	3.07E+00		GAMMALL_GS	2.0003E+00	L	06/10/2008 12:12	I
8141494	CS-137	10045-97-3	3.66E-01	pCi/L	1.6E+00	1.6E+00	U	2.77E+00		GAMMALL_GS	2.0003E+00	L	06/10/2008 12:12	I
8141494	EU-152	14683-23-9	-4.03E+00	pCi/L	4.3E+00	4.3E+00	U	6.79E+00		GAMMALL_GS	2.0003E+00	L	06/10/2008 12:12	I
8141494	EU-154	15585-10-1	-4.97E-02	pCi/L	4.4E+00	4.4E+00	U	7.87E+00		GAMMALL_GS	2.0003E+00	L	06/10/2008 12:12	I
8141494	EU-155	14391-16-3	-1.65E+00	pCi/L	4.1E+00	4.1E+00	U	7.04E+00		GAMMALL_GS	2.0003E+00	L	06/10/2008 12:12	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.

8141494	K-40	13966-00-2	-6.48E+01	pCi/L	5.1E+01	5.1E+01	U	1.01E+02		GAMMALL_GS	2.0003E+00	L	06/10/2008	12:12	I
8141494	RU-106	13967-48-1	-3.47E+00	pCi/L	1.4E+01	1.4E+01	U	2.42E+01		GAMMALL_GS	2.0003E+00	L	06/10/2008	12:12	I
8141494	SB-125	14234-35-6	-2.07E+00	pCi/L	4.0E+00	4.0E+00	U	6.66E+00		GAMMALL_GS	2.0003E+00	L	06/10/2008	12:12	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KM5H410	B1V7V4		MW6-SBB-A1	S08-005	W05409					05/13/2008 09:43

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
8141494	BE-7	13966-02-4	2.31E+01	pCi/L	2.6E+01	2.6E+01	U	4.64E+01		GAMMALL_GS	2.0003E+00	L	06/10/2008	12:12	I
8141494	CO-60	10198-40-0	9.55E+01	pCi/L	1.4E+01	1.4E+01		4.15E+00		GAMMALL_GS	2.0003E+00	L	06/10/2008	12:12	I
8141494	CS-134	13967-70-9	1.80E+00	pCi/L	2.8E+00	2.8E+00	U	5.10E+00		GAMMALL_GS	2.0003E+00	L	06/10/2008	12:12	I
8141494	CS-137	10045-97-3	9.67E-01	pCi/L	2.5E+00	2.5E+00	U	4.48E+00		GAMMALL_GS	2.0003E+00	L	06/10/2008	12:12	I
8141494	EU-152	14683-23-9	-3.68E+00	pCi/L	6.3E+00	6.3E+00	U	1.06E+01		GAMMALL_GS	2.0003E+00	L	06/10/2008	12:12	I
8141494	EU-154	15585-10-1	-1.66E-01	pCi/L	6.5E+00	6.5E+00	U	1.17E+01		GAMMALL_GS	2.0003E+00	L	06/10/2008	12:12	I
8141494	EU-155	14391-16-3	-2.98E+00	pCi/L	4.9E+00	4.9E+00	U	8.14E+00		GAMMALL_GS	2.0003E+00	L	06/10/2008	12:12	I
8141494	K-40	13966-00-2	-2.93E+01	pCi/L	5.0E+01	5.0E+01	U	1.02E+02		GAMMALL_GS	2.0003E+00	L	06/10/2008	12:12	I
8141494	RU-106	13967-48-1	1.74E+01	pCi/L	2.3E+01	2.3E+01	U	4.28E+01		GAMMALL_GS	2.0003E+00	L	06/10/2008	12:12	I
8141494	SB-125	14234-35-6	2.00E+00	pCi/L	5.9E+00	5.9E+00	U	1.03E+01		GAMMALL_GS	2.0003E+00	L	06/10/2008	12:12	I
8141493	I-129L	15046-84-1	2.18E+00	pCi/L	5.6E-01	5.6E-01		3.46E-01	89.5	I129LL_SEP_LEPS	3.9069E+00	L	06/12/2008	11:50	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KM5HT10	B1V7K7		MW6-SBB-A1	S08-005	W05409					05/13/2008 09:01

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
8141494	BE-7	13966-02-4	-2.50E+00	pCi/L	1.1E+01	1.1E+01	U	1.86E+01		GAMMALL_GS	2.0002E+00	L	06/10/2008	12:11	I
8141494	CO-60	10198-40-0	5.85E-01	pCi/L	1.1E+00	1.1E+00	U	2.24E+00		GAMMALL_GS	2.0002E+00	L	06/10/2008	12:11	I
8141494	CS-134	13967-70-9	-3.44E-01	pCi/L	1.2E+00	1.2E+00	U	2.00E+00		GAMMALL_GS	2.0002E+00	L	06/10/2008	12:11	I
8141494	CS-137	10045-97-3	7.51E-01	pCi/L	1.1E+00	1.1E+00	U	2.14E+00		GAMMALL_GS	2.0002E+00	L	06/10/2008	12:11	I
8141494	EU-152	14683-23-9	1.31E+00	pCi/L	2.6E+00	2.6E+00	U	4.76E+00		GAMMALL_GS	2.0002E+00	L	06/10/2008	12:11	I
8141494	EU-154	15585-10-1	2.89E+00	pCi/L	3.1E+00	3.1E+00	U	6.53E+00		GAMMALL_GS	2.0002E+00	L	06/10/2008	12:11	I
8141494	EU-155	14391-16-3	2.69E+00	pCi/L	2.4E+00	2.4E+00	U	4.54E+00		GAMMALL_GS	2.0002E+00	L	06/10/2008	12:11	I
8141494	K-40	13966-00-2	-1.85E+01	pCi/L	2.3E+01	2.3E+01	U	4.51E+01		GAMMALL_GS	2.0002E+00	L	06/10/2008	12:11	I
8141494	RU-106	13967-48-1	4.50E+00	pCi/L	9.6E+00	9.6E+00	U	1.81E+01		GAMMALL_GS	2.0002E+00	L	06/10/2008	12:11	I
8141494	SB-125	14234-35-6	-3.29E-01	pCi/L	2.4E+00	2.4E+00	U	4.21E+00		GAMMALL_GS	2.0002E+00	L	06/10/2008	12:11	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.

7/1/2008 2:20:51 PM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 39400 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.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:
9KM5J010	B1V8V0		MW6-SBB-A1	W08-005	W05409					05/13/2008 09:01

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141502	TC-99	14133-76-7	3.86E+01	pCi/L	5.3E+00	8.1E+00		9.84E+00	100.0	TC99_SEP_LSC	1.2501E-01	L	06/12/2008 18:28	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:
9KM5J210	B1V8M5		MW6-SBB-A1	W08-005	W05409					05/13/2008 12:46

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141502	TC-99	14133-76-7	2.82E+02	pCi/L	1.0E+01	2.2E+01		9.76E+00	100.0	TC99_SEP_LSC	1.25E-01	L	06/12/2008 18:28	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:
9KM5J510	B1V8M9		MW6-SBB-A1	W08-005	W05409					05/13/2008 10:34

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141494	BE-7	13966-02-4	-9.98E+00	pCi/L	1.8E+01	1.8E+01	U	3.04E+01		GAMMALL_GS	1.9998E+00	L	06/10/2008 12:12	I
8141494	CO-60	10198-40-0	5.19E+01	pCi/L	8.8E+00	8.8E+00		3.60E+00		GAMMALL_GS	1.9998E+00	L	06/10/2008 12:12	I
8141494	CS-134	13967-70-9	-4.28E-02	pCi/L	2.2E+00	2.2E+00	U	3.80E+00		GAMMALL_GS	1.9998E+00	L	06/10/2008 12:12	I
8141494	CS-137	10045-97-3	-7.59E-01	pCi/L	1.9E+00	1.9E+00	U	3.33E+00		GAMMALL_GS	1.9998E+00	L	06/10/2008 12:12	I
8141494	EU-152	14683-23-9	1.93E+00	pCi/L	4.7E+00	4.7E+00	U	8.49E+00		GAMMALL_GS	1.9998E+00	L	06/10/2008 12:12	I
8141494	EU-154	15585-10-1	-1.47E+00	pCi/L	5.7E+00	5.7E+00	U	1.00E+01		GAMMALL_GS	1.9998E+00	L	06/10/2008 12:12	I
8141494	EU-155	14391-16-3	1.14E+00	pCi/L	3.4E+00	3.4E+00	U	6.03E+00		GAMMALL_GS	1.9998E+00	L	06/10/2008 12:12	I
8141494	K-40	13966-00-2	-2.03E+01	pCi/L	4.0E+01	4.0E+01	U	8.00E+01		GAMMALL_GS	1.9998E+00	L	06/10/2008 12:12	I
8141494	RU-106	13967-48-1	4.12E+00	pCi/L	1.5E+01	1.5E+01	U	2.83E+01		GAMMALL_GS	1.9998E+00	L	06/10/2008 12:12	I
8141494	SB-125	14234-35-6	3.92E+00	pCi/L	4.7E+00	4.7E+00	U	8.73E+00		GAMMALL_GS	1.9998E+00	L	06/10/2008 12:12	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KM5JR10	B1V8V1		MW6-SBB-A1	W08-005	W05409					05/13/2008 07:45

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141502	TC-99	14133-76-7	1.97E+00	pCi/L	4.2E+00	6.0E+00	U	9.87E+00	100.0	TC99_SEP_LSC	1.25E-01	L	06/12/2008 18:28	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:
9KM5KA10	B1V8V8		MW6-SBB-A1	W08-005	W05409					05/13/2008 12:05

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141494	BE-7	13966-02-4	-1.61E+00	pCi/L	1.8E+01	1.8E+01	U	3.10E+01		GAMMALL_GS	2.0003E+00	L	06/10/2008 15:56	I

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

8141494	CO-60	10198-40-0	2.08E+01	pCi/L	5.1E+00	5.1E+00	U	8.77E+00		GAMMALL_GS	2.0003E+00	L	06/10/2008	15:56	I
8141494	CS-134	13967-70-9	1.10E+00	pCi/L	2.0E+00	2.0E+00	U	3.68E+00		GAMMALL_GS	2.0003E+00	L	06/10/2008	15:56	I
8141494	CS-137	10045-97-3	-6.61E-01	pCi/L	1.9E+00	1.9E+00	U	3.32E+00		GAMMALL_GS	2.0003E+00	L	06/10/2008	15:56	I
8141494	EU-152	14683-23-9	1.94E-02	pCi/L	4.2E+00	4.2E+00	U	7.40E+00		GAMMALL_GS	2.0003E+00	L	06/10/2008	15:56	I
8141494	EU-154	15585-10-1	-1.02E+00	pCi/L	5.9E+00	5.9E+00	U	1.05E+01		GAMMALL_GS	2.0003E+00	L	06/10/2008	15:56	I
8141494	EU-155	14391-16-3	-5.36E-01	pCi/L	2.8E+00	2.8E+00	U	4.87E+00		GAMMALL_GS	2.0003E+00	L	06/10/2008	15:56	I
8141494	K-40	13966-00-2	-1.82E+01	pCi/L	3.7E+01	3.7E+01	U	7.51E+01		GAMMALL_GS	2.0003E+00	L	06/10/2008	15:56	I
8141494	RU-106	13967-48-1	1.18E+01	pCi/L	1.7E+01	1.7E+01	U	3.13E+01		GAMMALL_GS	2.0003E+00	L	06/10/2008	15:56	I
8141494	SB-125	14234-35-6	3.28E+00	pCi/L	4.2E+00	4.2E+00	U	7.81E+00		GAMMALL_GS	2.0003E+00	L	06/10/2008	15:56	I
8141502	TC-99	14133-76-7	8.74E+03	pCi/L	5.1E+01	5.2E+02		9.86E+00	100.0	TC99_SEP_LSC	1.25E-01	L	06/12/2008	18:28	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:
9KM71010	B1V6H9		MW6-SBB-A1	I08-038	W05409					05/13/2008 11:33

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141493	I-129L	15046-84-1	1.19E-01	pCi/L	1.3E-01	1.3E-01	U	2.62E-01	97.6	I129LL_SEP_LEPS	3.8927E+00	L	06/12/2008 11:51	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KM71410	B1V6F4		MW6-SBB-A1	I08-038	W05409					05/13/2008 09:53

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141493	I-129L	15046-84-1	1.64E+00	pCi/L	3.8E-01	3.8E-01	U	6.39E-01	93.2	I129LL_SEP_LEPS	3.8848E+00	L	06/12/2008 13:39	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KMVL210	B1T405		MW6-SBB-A1	S08-002	W05409					05/08/2008 08:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141494	BE-7	13966-02-4	4.57E+00	pCi/L	1.6E+01	1.6E+01	U	2.91E+01		GAMMALL_GS	2.0002E+00	L	06/10/2008 12:11	I
8141494	CO-60	10198-40-0	4.03E-01	pCi/L	1.6E+00	1.6E+00	U	3.20E+00		GAMMALL_GS	2.0002E+00	L	06/10/2008 12:11	I
8141494	CS-134	13967-70-9	-1.91E-01	pCi/L	1.6E+00	1.6E+00	U	3.00E+00		GAMMALL_GS	2.0002E+00	L	06/10/2008 12:11	I
8141494	CS-137	10045-97-3	-1.08E+00	pCi/L	1.6E+00	1.6E+00	U	2.64E+00		GAMMALL_GS	2.0002E+00	L	06/10/2008 12:11	I
8141494	EU-152	14683-23-9	2.15E+00	pCi/L	3.7E+00	3.7E+00	U	6.84E+00		GAMMALL_GS	2.0002E+00	L	06/10/2008 12:11	I
8141494	EU-154	15585-10-1	1.23E+00	pCi/L	4.4E+00	4.4E+00	U	8.68E+00		GAMMALL_GS	2.0002E+00	L	06/10/2008 12:11	I
8141494	EU-155	14391-16-3	2.10E-01	pCi/L	2.7E+00	2.7E+00	U	4.91E+00		GAMMALL_GS	2.0002E+00	L	06/10/2008 12:11	I
8141494	K-40	13966-00-2	2.04E+00	pCi/L	3.1E+01	3.1E+01	U	6.49E+01		GAMMALL_GS	2.0002E+00	L	06/10/2008 12:11	I
8141494	RU-106	13967-48-1	-1.49E+01	pCi/L	1.3E+01	1.3E+01	U	2.10E+01		GAMMALL_GS	2.0002E+00	L	06/10/2008 12:11	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.

7/1/2008 2:20:52 PM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 39400 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

8141494	SB-125	14234-35-6	1.56E+00	pCi/L	3.8E+00	3.8E+00	U	7.09E+00		GAMMALL_GS	2.0002E+00	L	06/10/2008	12:11	I
8141493	I-129L	15046-84-1	-9.05E-02	pCi/L	1.4E-01	1.4E-01	U	2.34E-01	92.2	I129LL_SEP_LEPS	3.904E+00	L	06/12/2008	10:07	I
8141497	SR-90	10098-97-2	2.09E-01	pCi/L	3.6E-01	3.9E-01	U	8.23E-01	80.0	SRISO_SEP_PRE	9.9754E-01	L	06/21/2008	07:57	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KMVLF10	B1RTP8		MW6-SBB-A1	S08-001	W05409					05/08/2008 11:41

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141495	ALPHA	12587-46-1	3.87E+00	pCi/L	1.8E+00	1.9E+00		1.74E+00	100.0	9310_ALPHABETA	2.003E-01	L	06/12/2008 16:09	I
8141496	BETA	12587-47-2	1.81E+01	pCi/L	2.4E+00	3.4E+00		3.18E+00	100.0	9310_ALPHABETA	2.00E-01	L	06/13/2008 08:07	I
8141494	BE-7	13966-02-4	5.37E+00	pCi/L	1.7E+01	1.7E+01	U	3.09E+01		GAMMALL_GS	2.00E+00	L	06/10/2008 12:10	I
8141494	CO-60	10198-40-0	2.55E+00	pCi/L	1.7E+00	1.7E+00	U	3.81E+00		GAMMALL_GS	2.00E+00	L	06/10/2008 12:10	I
8141494	CS-134	13967-70-9	4.01E-01	pCi/L	1.6E+00	1.6E+00	U	3.02E+00		GAMMALL_GS	2.00E+00	L	06/10/2008 12:10	I
8141494	CS-137	10045-97-3	9.74E-01	pCi/L	1.6E+00	1.6E+00	U	3.03E+00		GAMMALL_GS	2.00E+00	L	06/10/2008 12:10	I
8141494	EU-152	14683-23-9	-3.57E+00	pCi/L	4.0E+00	4.0E+00	U	6.39E+00		GAMMALL_GS	2.00E+00	L	06/10/2008 12:10	I
8141494	EU-154	15585-10-1	-1.30E+00	pCi/L	4.2E+00	4.2E+00	U	7.45E+00		GAMMALL_GS	2.00E+00	L	06/10/2008 12:10	I
8141494	EU-155	14391-16-3	-1.36E+00	pCi/L	3.1E+00	3.1E+00	U	5.18E+00		GAMMALL_GS	2.00E+00	L	06/10/2008 12:10	I
8141494	K-40	13966-00-2	1.73E+00	pCi/L	3.4E+01	3.4E+01	U	2.50E+01		GAMMALL_GS	2.00E+00	L	06/10/2008 12:10	I
8141494	RU-106	13967-48-1	-2.70E+00	pCi/L	1.5E+01	1.5E+01	U	2.70E+01		GAMMALL_GS	2.00E+00	L	06/10/2008 12:10	I
8141494	SB-125	14234-35-6	-9.57E-02	pCi/L	4.1E+00	4.1E+00	U	7.29E+00		GAMMALL_GS	2.00E+00	L	06/10/2008 12:10	I
8141493	I-129L	15046-84-1	1.36E+00	pCi/L	3.6E-01	3.6E-01		2.84E-01	96.2	I129LL_SEP_LEPS	3.909E+00	L	06/12/2008 10:05	I
8141497	SR-90	10098-97-2	-5.82E-02	pCi/L	3.2E-01	3.9E-01	U	8.76E-01	63.2	SRISO_SEP_PRE	1.0003E+00	L	06/21/2008 07:57	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KMVLW10	B1T404		MW6-SBB-A1	S08-002	W05409					05/08/2008 10:14

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8141494	BE-7	13966-02-4		pCi/L			U			GAMMALL_GS		L	06/10/2008 12:10	I
8141494	CO-60	10198-40-0	2.40E+00	pCi/L	5.7E+00	5.7E+00	U	1.09E+01		GAMMALL_GS	2.0003E+00	L	06/10/2008 12:10	I
8141494	CS-134	13967-70-9	-1.64E+01	pCi/L	2.8E+01	2.8E+01	U	4.73E+01		GAMMALL_GS	2.0003E+00	L	06/10/2008 12:10	I
8141494	CS-137	10045-97-3	1.11E+00	pCi/L	2.1E+00	2.1E+00	U	3.92E+00		GAMMALL_GS	2.0003E+00	L	06/10/2008 12:10	I
8141494	EU-152	14683-23-9	1.43E+00	pCi/L	5.9E+00	5.9E+00	U	1.06E+01		GAMMALL_GS	2.0003E+00	L	06/10/2008 12:10	I
8141494	EU-154	15585-10-1	-1.64E+00	pCi/L	1.1E+01	1.1E+01	U	1.93E+01		GAMMALL_GS	2.0003E+00	L	06/10/2008 12:10	I
8141494	EU-155	14391-16-3	2.17E+00	pCi/L	7.2E+00	7.2E+00	U	1.31E+01		GAMMALL_GS	2.0003E+00	L	06/10/2008 12:10	I
8141494	K-40	13966-00-2	-2.92E+01	pCi/L	3.6E+01	3.6E+01	U	7.17E+01		GAMMALL_GS	2.0003E+00	L	06/10/2008 12:10	I

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

8141494	RU-106	13967-48-1		pCi/L			U			GAMMALL_GS		L	06/10/2008	12:10	I
8141494	SB-125	14234-35-6	-7.40E+00	pCi/L	2.7E+01	2.7E+01	U	4.68E+01		GAMMALL_GS	2.0003E+00	L	06/10/2008	12:10	I
8141493	I-129L	15046-84-1	5.85E-02	pCi/L	1.3E-01	1.3E-01	U	2.59E-01	105.1	I129LL_SEP_LEPS	3.9018E+00	L	06/12/2008	10:06	I
8141497	SR-90	10098-97-2	2.34E-02	pCi/L	3.2E-01	3.2E-01	U	7.12E-01	78.7	SRISO_SEP_PRE	1.0002E+00	L	06/21/2008	07:57	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KNJTP10	INTRA-LAB BL		MW6-SBB-A1		W05409					05/13/2008 09:01

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
8141494	BE-7	13966-02-4	-9.43E+00	pCi/L	1.4E+01	1.4E+01	U	2.31E+01		GAMMALL_GS	2.0005E+00	L	06/10/2008	15:57	I
8141494	CO-60	10198-40-0	4.77E-01	pCi/L	1.2E+00	1.2E+00	U	2.37E+00		GAMMALL_GS	2.0005E+00	L	06/10/2008	15:57	I
8141494	CS-134	13967-70-9	-1.09E+00	pCi/L	1.2E+00	1.2E+00	U	2.02E+00		GAMMALL_GS	2.0005E+00	L	06/10/2008	15:57	I
8141494	CS-137	10045-97-3	5.14E-01	pCi/L	1.4E+00	1.4E+00	U	2.55E+00		GAMMALL_GS	2.0005E+00	L	06/10/2008	15:57	I
8141494	EU-152	14683-23-9	-1.27E+00	pCi/L	3.1E+00	3.1E+00	U	5.34E+00		GAMMALL_GS	2.0005E+00	L	06/10/2008	15:57	I
8141494	EU-154	15585-10-1	-9.39E-01	pCi/L	2.9E+00	2.9E+00	U	5.31E+00		GAMMALL_GS	2.0005E+00	L	06/10/2008	15:57	I
8141494	EU-155	14391-16-3	-1.05E+00	pCi/L	3.0E+00	3.0E+00	U	5.21E+00		GAMMALL_GS	2.0005E+00	L	06/10/2008	15:57	I
8141494	K-40	13966-00-2	-1.89E+01	pCi/L	1.9E+01	1.9E+01	U	3.41E+01		GAMMALL_GS	2.0005E+00	L	06/10/2008	15:57	I
8141494	RU-106	13967-48-1	-1.11E+00	pCi/L	1.2E+01	1.2E+01	U	2.16E+01		GAMMALL_GS	2.0005E+00	L	06/10/2008	15:57	I
8141494	SB-125	14234-35-6	-2.37E-01	pCi/L	3.3E+00	3.3E+00	U	5.70E+00		GAMMALL_GS	2.0005E+00	L	06/10/2008	15:57	I

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

Tuesday, July 01, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id:	KNJT01AB	**Sdg/Rept Nbr:**	W05409	39400	**Collection Date:** 05/13/2008 07:45
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 05/13/2008

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
8141502	TC-99	-1.08E+00	pCi/L	5.8E+00	U	9.84E+00	100.0		TC99_SEP_LS	1.25E-01	06/12/2008				D
BLK	14133-76-7			4.1E+00						L	18:28				

TestAmerica
rptFeadRadEdd v3.68

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

1

Tuesday, July 01, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id: KNJT71AX **Sdg/Rept Nbr:** W05409 39400 **Collection Date:** 05/09/2008

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 05/09/2008

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
8141504	H-3	-5.47E+01	pCi/L	1.2E+02	U	2.55E+02	100.0		906.0_H3_LSC	5.00E-03	05/31/2008				D
BLK	10028-17-8			1.0E+02						L	07:42				

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, July 01, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id: KNJT71DB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05409 39400
Matrix: WATER WATER
QC Type: BLK

Collection Date: 05/09/2008
Sample On Date:
Received Date: 05/09/2008

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
8141504	H-3	1.62E+01	pCi/L	1.2E+02	U	2.67E+02	100.0		906.0_H3_LSC	5.00E-03	05/31/2008				D
BLK	10028-17-8			1.1E+02						L	04:58				

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, July 01, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id: KNJTD1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05409 39400
Matrix: WATER WATER
QC Type: BLK

Collection Date: 05/13/2008 11:33
Sample On Date:
Received Date: 05/14/2008

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
8141493	I-129L	2.71E-02	pCi/L	1.2E-01	U	2.33E-01	94.3		I129LL_SEP_L	3.9924E+00	06/12/2008				D
BLK	15046-84-1			1.2E-01						L	13:39				

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, July 01, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id: KNJTP1AB **Sdg/Rept Nbr:** W05409 39400 **Collection Date:** 05/13/2008 09:01

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 05/13/2008

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
8141494	BE-7	-9.43E+00	pCi/L	1.4E+01	U	2.31E+01			GAMMALL_GS	2.0005E+00	06/10/2008				D
BLK	13966-02-4			1.4E+01						L	15:57				
8141494	CO-60	4.77E-01	pCi/L	1.2E+00	U	2.37E+00			GAMMALL_GS	2.0005E+00	06/10/2008				D
BLK	10198-40-0			1.2E+00						L	15:57				
8141494	CS-134	-1.09E+00	pCi/L	1.2E+00	U	2.02E+00			GAMMALL_GS	2.0005E+00	06/10/2008				D
BLK	13967-70-9			1.2E+00						L	15:57				
8141494	CS-137	5.14E-01	pCi/L	1.4E+00	U	2.55E+00			GAMMALL_GS	2.0005E+00	06/10/2008				D
BLK	10045-97-3			1.4E+00						L	15:57				
8141494	EU-152	-1.27E+00	pCi/L	3.1E+00	U	5.34E+00			GAMMALL_GS	2.0005E+00	06/10/2008				D
BLK	14683-23-9			3.1E+00						L	15:57				
8141494	EU-154	-9.39E-01	pCi/L	2.9E+00	U	5.31E+00			GAMMALL_GS	2.0005E+00	06/10/2008				D
BLK	15585-10-1			2.9E+00						L	15:57				
8141494	EU-155	-1.05E+00	pCi/L	3.0E+00	U	5.21E+00			GAMMALL_GS	2.0005E+00	06/10/2008				D
BLK	14391-16-3			3.0E+00						L	15:57				
8141494	K-40	-1.89E+01	pCi/L	1.9E+01	U	3.41E+01			GAMMALL_GS	2.0005E+00	06/10/2008				D
BLK	13966-00-2			1.9E+01						L	15:57				
8141494	RU-106	-1.11E+00	pCi/L	1.2E+01	U	2.16E+01			GAMMALL_GS	2.0005E+00	06/10/2008				D
BLK	13967-48-1			1.2E+01						L	15:57				
8141494	SB-125	-2.37E-01	pCi/L	3.3E+00	U	5.70E+00			GAMMALL_GS	2.0005E+00	06/10/2008				D
BLK	14234-35-6			3.3E+00						L	15:57				

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

Tuesday, July 01, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id: KNJTR1AB **Sdg/Rept Nbr:** W05409 39400 **Collection Date:** 05/08/2008 11:41

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 05/08/2008

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
8141495	ALPHA	2.59E-01	pCi/L	4.6E-01	U	9.88E-01	100.0		9310_ALPHAB	2.004E-01	06/12/2008				D
BLK	12587-46-1			4.6E-01						L	16:09				

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

Tuesday, July 01, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id: KNJTT1AB **Sdg/Rept Nbr:** W05409 39400 **Collection Date:** 05/09/2008 10:22

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 05/12/2008

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
8141496	BETA	7.31E-01	pCi/L	1.2E+00	U	2.64E+00	100.0		9310_ALPHAB	2.00E-01	06/13/2008				D
BLK	12587-47-2			1.2E+00						L	08:07				

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

Tuesday, July 01, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id:	KNJTV1AB	**Sdg/Rept Nbr:**	W05409	39400	**Collection Date:** 05/08/2008 10:14
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 05/08/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8141497	SR-90	1.60E-01	pCi/L	3.1E-01	U	6.68E-01	62.7		SRISO_SEP_P	1.0003E+00	06/21/2008				D
BLK	10098-97-2			3.0E-01						L	07:53				

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

Tuesday, July 01, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id:	KNJTW1AB	**Sdg/Rept Nbr:**	W05409	39400	**Collection Date:** 05/09/2008 09:18
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 05/09/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8141498	Uranium	4.43E-02	ug/L	6.7E-03	U	8.28E-02			UTOT_KPA	2.53E-02	06/17/2008				D
BLK	7440-61-1			6.7E-03						ML	09:29				

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, July 01, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id:	KNJTX1AB	**Sdg/Rept Nbr:**	W05409	39400	**Collection Date:** 05/09/2008 09:18
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 05/09/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CA	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
8141499	TC-99	3.89E+00	pCi/L	5.7E+00	U	9.41E+00	100.0		TC99_ETVDSK	1.2501E-01	06/11/2008				D
BLK	14133-76-7			4.0E+00						L	22:57				

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

Tuesday, July 01, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id:	KNJT01CS	**Sdg/Rept Nbr:**	W05409	39400	**Collection Date:** 05/13/2008 07:45
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 05/13/2008

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
8141502	TC-99	4.96E+02	pCi/L	3.5E+01		9.67E+00	100.0	5.44E+02	TC99_SEP_LS	1.2501E-01	06/12/2008			70	D
BS	14133-76-7			1.3E+01				91.3		L	18:28			130	

TestAmerica
rptFeadRadEdd v3.68

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

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Tuesday, July 01, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id: KNJT71CM **Sdg/Rept Nbr:** W05409 39400 **Collection Date:** 05/09/2008

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 05/09/2008

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
8141504	H-3	2.13E+03	pCi/L	2.1E+02		2.54E+02	100.0	2.70E+03	906.0_H3_LSC	5.00E-03	05/31/2008			70	D
BS	10028-17-8			1.7E+02				78.8		L	09:04			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, July 01, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id: KNJT71ES **Sdg/Rept Nbr:** W05409 39400 **Collection Date:** 05/09/2008

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 05/09/2008

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
8141504	H-3	2.32E+03	pCi/L	2.2E+02		2.69E+02	100.0	2.70E+03	906.0_H3_LSC	5.00E-03	05/31/2008			70	D
BS	10028-17-8			1.8E+02				86.0		L	06:20			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, July 01, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id: KNJTD1CS **Sdg/Rept Nbr:** W05409 39400 **Collection Date:** 05/13/2008 11:33

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 05/14/2008

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
8141493	I-129L	9.66E+00	pCi/L	1.2E+00		4.19E-01	91.9	9.68E+00	I129LL_SEP_L	3.9545E+00	06/12/2008			70	D
BS	15046-84-1			1.2E+00				99.8		L	16:08			130	

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

Tuesday, July 01, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id:	KNJTP1CS	**Sdg/Rept Nbr:**	W05409 39400	**Collection Date:**	05/13/2008 09:01
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	05/13/2008

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
8141494	CO-60	4.04E+01	pCi/L	7.2E+00		2.57E+00		3.80E+01	GAMMALL_GS	2.0004E+00	06/10/2008			70	D
BS	10198-40-0			7.2E+00				106.3		L	15:58			130	
8141494	CS-137	5.21E+01	pCi/L	8.2E+00		3.32E+00		4.98E+01	GAMMALL_GS	2.0004E+00	06/10/2008			70	D
BS	10045-97-3			8.2E+00				104.6		L	15:58			130	
8141494	EU-152	8.07E+01	pCi/L	1.5E+01		8.16E+00		7.57E+01	GAMMALL_GS	2.0004E+00	06/10/2008			70	D
BS	14683-23-9			1.5E+01				106.5		L	15:58			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, July 01, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id:	KNJTR1CS	**Sdg/Rept Nbr:**	W05409	39400	**Collection Date:** 05/08/2008 11:41
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 05/08/2008

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
8141495	ALPHA	2.21E+01	pCi/L	5.4E+00		9.39E-01	100.0	2.27E+01	9310_ALPHAB	2.002E-01	06/12/2008			70	D
BS	12587-46-1			3.0E+00				97.2		L	16:09			130	

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

Tuesday, July 01, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id:	KNJTT1CS	**Sdg/Rept Nbr:**	W05409	39400	**Collection Date:** 05/09/2008 10:22
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 05/12/2008

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
8141496	BETA	2.34E+01	pCi/L	3.8E+00		2.48E+00	100.0	2.27E+01	9310_ALPHAB	2.002E-01	06/13/2008			70	D
BS	12587-47-2			2.4E+00				102.7		L	08:07			130	

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

Tuesday, July 01, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id:	KNJTV2CS	**Sdg/Rept Nbr:**	W05409	39400	**Collection Date:** 05/08/2008 10:14
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 05/08/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8175548	SR-90	1.43E+01	pCi/L	2.3E+00		1.11E+00	68.3	1.34E+01	SRISO_SEP_P	1.0002E+00	06/27/2008			70	D
BS	10098-97-2			9.3E-01				107.2		L	05:35			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, July 01, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id: KNJTW1CS **Sdg/Rept Nbr:** W05409 39400 **Collection Date:** 05/09/2008 09:18

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 05/09/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BY	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
8141498	Uranium	3.32E+01	ug/L	3.9E+00		8.28E-02		3.58E+01	UTOT_KPA	2.53E-02	06/17/2008			70	D
BS	7440-61-1			3.9E+00				93.0		ML	11:25			130	

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

Tuesday, July 01, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id:	KNJTW1DS	**Sdg/Rept Nbr:**	W05409	39400	**Collection Date:**	05/09/2008 09:18
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:**	05/09/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BZ	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
8141498	Uranium	3.34E+00	ug/L	3.4E-01		8.38E-02		3.61E+00	UTOT_KPA	2.50E-02	06/17/2008			70	D
BS	7440-61-1			3.4E-01				92.4		ML	11:27			130	

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

Tuesday, July 01, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id:	KNJTX1CS	**Sdg/Rept Nbr:**	W05409	39400	**Collection Date:** 05/09/2008 09:18
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 05/09/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CB	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
8141499	TC-99	5.06E+02	pCi/L	3.5E+01		9.41E+00	100.0	5.46E+02	TC99_ETVDSK	1.2501E-01	06/12/2008			70	D
BS	14133-76-7			1.3E+01				92.7		L	00:01			130	

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

Tuesday, July 01, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id: KM0G71DR **Sdg/Rept Nbr:** W05409 39400 **Collection Date:** 05/09/2008
Client Id: B1TWH9 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 05/09/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8141504	H-3	1.06E+02	pCi/L	1.2E+02	U	2.55E+02	100.0		906.0_H3_LSC	5.00E-03	05/31/2008	14.8	0.2		D
DUP	10028-17-8	9.17E+01		1.1E+02						L	11:48	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, July 01, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id: KM0G81ER **Sdg/Rept Nbr:** W05409 39400 **Collection Date:** 05/09/2008 09:18

Client Id: B1TVM7 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 05/09/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A08-004	MW6-SBB-A19981								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
8141498	Uranium	3.18E+00	ug/L	3.3E-01		8.38E-02			UTOT_KPA	2.50E-02	06/17/2008	3.5	0.5		D
DUP	7440-61-1	3.30E+00		3.3E-01						ML	11:32	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, July 01, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id: KM0G81GR
Client Id: B1TVM7
Moisture/Solids%*:

Sdg/Rept Nbr: W05409 39400
Matrix: WATER WATER
QC Type: DUP

Collection Date: 05/09/2008 09:18
Sample On Date:
Received Date: 05/09/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A08-004	MW6-SBB-A19981								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
8141499	TC-99	4.46E+00	pCi/L	5.8E+00	U	9.49E+00	100.0		TC99_ETVDSK	1.25E-01	06/11/2008	.0	0.		D
DUP	14133-76-7	4.46E+00		4.0E+00						L	21:55	20.0	3		

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

Tuesday, July 01, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id:	KM2221FR	**Sdg/Rept Nbr:**	W05409	39400	**Collection Date:** 05/09/2008 10:22
Client Id:	B1TJF8	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 05/12/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
108-027	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
8141496	BETA	9.39E+00	pCi/L	2.6E+00		3.69E+00	100.0		9310_ALPHAB	1.695E-01	06/13/2008	11.0	0.6		D
DUP	12587-47-2	1.05E+01		2.3E+00						L	08:07	20.0	3		

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

Tuesday, July 01, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id: KM5HT1CR **Sdg/Rept Nbr:** W05409 39400 **Collection Date:** 05/13/2008 09:01

Client Id: B1V7K7 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 05/13/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-005	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
8141494	BE-7	-5.01E+00	pCi/L	2.4E+01	U	4.04E+01			GAMMALL_GS	2.0002E+00	06/10/2008	0.0	0.1		D
DUP	13966-02-4	-2.50E+00		2.4E+01						L	15:55	20.0	3		
8141494	CO-60	-5.98E-01	pCi/L	2.0E+00	U	3.44E+00			GAMMALL_GS	2.0002E+00	06/10/2008	0.0	0.9		D
DUP	10198-40-0	5.85E-01		2.0E+00						L	15:55	20.0	3		
8141494	CS-134	-5.71E-01	pCi/L	2.3E+00	U	4.07E+00			GAMMALL_GS	2.0002E+00	06/10/2008	0.0	0.1		D
DUP	13967-70-9	-3.44E-01		2.3E+00						L	15:55	20.0	3		
8141494	CS-137	-6.69E-01	pCi/L	2.1E+00	U	3.58E+00			GAMMALL_GS	2.0002E+00	06/10/2008	3498.0	1.		D
DUP	10045-97-3	7.51E-01		2.1E+00						L	15:55	20.0	3		
8141494	EU-152	1.32E+00	pCi/L	5.6E+00	U	9.88E+00			GAMMALL_GS	2.0002E+00	06/10/2008	.7	0.		D
DUP	14683-23-9	1.31E+00		5.6E+00						L	15:55	20.0	3		
8141494	EU-154	-1.52E+00	pCi/L	6.9E+00	U	1.21E+01			GAMMALL_GS	2.0002E+00	06/10/2008	641.6	0.9		D
DUP	15585-10-1	2.89E+00		6.9E+00						L	15:55	20.0	3		
8141494	EU-155	-3.21E+00	pCi/L	4.0E+00	U	6.56E+00			GAMMALL_GS	2.0002E+00	06/10/2008	0.0	2.1		D
DUP	14391-16-3	2.69E+00		4.0E+00						L	15:55	20.0	3		
8141494	K-40	-2.00E+01	pCi/L	5.1E+01	U	1.04E+02			GAMMALL_GS	2.0002E+00	06/10/2008	0.0	0.		D
DUP	13966-00-2	-1.85E+01		5.1E+01						L	15:55	20.0	3		
8141494	RU-106	-2.43E+00	pCi/L	1.8E+01	U	3.19E+01			GAMMALL_GS	2.0002E+00	06/10/2008	668.5	0.5		D
DUP	13967-48-1	4.50E+00		1.8E+01						L	15:55	20.0	3		
8141494	SB-125	-4.62E-01	pCi/L	5.6E+00	U	9.61E+00			GAMMALL_GS	2.0002E+00	06/10/2008	0.0	0.		D
DUP	14234-35-6	-3.29E-01		5.6E+00						L	15:55	20.0	3		

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

Tuesday, July 01, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id:	KM5JR1CR	**Sdg/Rept Nbr:**	W05409	39400	**Collection Date:** 05/13/2008 07:45
Client Id:	B1V8V1	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 05/13/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W08-005	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
8141502	TC-99	-3.66E-01	pCi/L	5.9E+00	U	9.81E+00	100.0		TC99_SEP_LS	1.25E-01	06/12/2008	291.1	0.6		D
DUP	14133-76-7	1.97E+00		4.1E+00						L	18:28	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, July 01, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id: KM7101CR **Sdg/Rept Nbr:** W05409 39400 **Collection Date:** 05/13/2008 11:33
Client Id: B1V6H9 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 05/14/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-038	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
8141493	I-129L	-6.71E-02	pCi/L	1.7E-01	U	2.83E-01	89.7		I129LL_SEP_L	3.8934E+00	06/12/2008	717.6	1.6		D
DUP	15046-84-1	1.19E-01		1.7E-01						L	13:37	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, July 01, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id: KMVLF1GR **Sdg/Rept Nbr:** W05409 39400 **Collection Date:** 05/08/2008 11:41
Client Id: B1RTP8 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 05/08/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-001	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
8141495	ALPHA	4.26E+00	pCi/L	2.0E+00		1.61E+00	100.0		9310_ALPHAB	2.002E-01	06/12/2008	9.6	0.3		D
DUP	12587-46-1	3.87E+00		1.8E+00						L	16:09	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, July 01, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id: KMVLW1ER **Sdg/Rept Nbr:** W05409 39400 **Collection Date:** 05/08/2008 10:14

Client Id: B1T404 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 05/08/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-002	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
8141497	SR-90	-1.65E-01	pCi/L	3.6E-01	U	8.29E-01	71.4		SRISO_SEP_P	1.0003E+00	06/21/2008	0.0	0.7		D
DUP	10098-97-2	2.34E-02		3.6E-01						L	07:57	20.0	3		

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

Tuesday, July 01, 2008

TestAmerica Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id: KM0G81DW **Sdg/Rept Nbr:** W05409 39400 **Collection Date:** 05/09/2008 09:18
Client Id: B1TVM7 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** MS **Received Date:** 05/09/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A08-004	MW6-SBB-A19981								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
8141498	Uranium	3.81E+01	ug/L	4.5E+00		8.38E-02		3.62E+01	UTOT_KPA	2.50E-02	06/17/2008			60	D
MS	7440-61-1			4.5E+00				105.3		ML	11:30			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.

Tuesday, July 01, 2008

TestAmerica Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id: KM0G81FW
Client Id: B1TVM7
Moisture/Solids%*:

Sdg/Rept Nbr: W05409 39400
Matrix: WATER WATER
QC Type: MS

Collection Date: 05/09/2008 09:18
Sample On Date:
Received Date: 05/09/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A08-004	MW6-SBB-A19981								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
8141499	TC-99	3.25E+03	pCi/L	2.0E+02		9.46E+00	100.0	3.61E+03	TC99_ETVDSK	1.2501E-01	06/11/2008			60	D
MS	14133-76-7			3.1E+01				90.1		L	20:52			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.

Tuesday, July 01, 2008

TestAmerica Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05409.Edd, h:\Reportdb\edd\FeadIV\Rad\39400.Edd

Lab Sample Id: KM5J01CW
Client Id: B1V8V0
Moisture/Solids%*:

Sdg/Rept Nbr: W05409 39400
Matrix: WATER WATER
QC Type: MS

Collection Date: 05/13/2008 09:01
Sample On Date:
Received Date: 05/13/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W08-005	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
8141502	TC-99	3.25E+03	pCi/L	2.0E+02		9.85E+00	100.0	3.59E+03	TC99_SEP_LS	1.2501E-01	06/12/2008			60	D
MS	14133-76-7			3.1E+01				90.3		L	18:28			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 Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8141495

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

Comments on any "No" response: _____

Second Level Review: Erika [illegible] Date: 6/13/8

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

TestAmerica

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/13/2008 2:37:03 PM

Lot No., Due Date: J8E120170,J8E080364; 06/30/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8141496; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05409; 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** 6-13-8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8141496

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: 6/13/15

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

6/27/2008 12:46:35 PM

Lot No., Due Date: J8E120170,J8E080369,J8E080364; 06/30/2008
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 8141497; RSR85907 Sr-85/90 by GPC-7
SDG, Matrix: W05409; 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/Alpha 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 identified 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:
NCM 10-12585

First Level Review Lisa Anderson **Date** 6/27/08

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8141497

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?	~~√~~ 6/27/18	√	
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 NCR

Second Level Review: Erika Ford Date: 6/27/18

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist
RADIOCHEMISTRY. First Level Review

6/27/2008 12:50:20 PM

Lot No., Due Date: J8E120170; 06/30/2008
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 8175548; RSR85907 Sr-85/90 by GPC-7
SDG, Matrix: W05409; 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 responses:
ncm # 10-12585

First Level Review Tina Anderson **Date** 6/27/08

L Richland
AS_RADCALCv4.8.33

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8175548

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

Comments on any "No" response: See ncm

Second Level Review: Erika [illegible] Date: 6/27/18

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: 10-12585
NCM Initiated By: Lisa Antonson
Date Opened: 06/27/2008
Date Closed:

Classification: **Anomaly**
Status: **QAREVIEW**
Production Area: Environmental - Prep
Tests: Sr-85/90 by GPC-7
Lot #'s (Sample #'s): J8E080364 (1), J8E080369 (1,2), J8E120170 (1,2,3), J8E200000 (497),
QC Batches: 8141497,

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

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	06/27/2008	1.Sample KM220 in this Sr batch was dropped durning flaming. 2. The LCS was recovered high 3.The blank was dropped during weighing

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	06/27/2008	1 &2 These samples were remilked in batch 8175548 with acceptable results. 3. The blank had a lower, but acceptable weight.

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: 6/27/2008

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/11/2008 2:37:01 PM

Lot No., Due Date: J8E090379,J8E130313,J8E130315,J8E080369,J8E080364; 06/30/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8141494; RGAMMA Gamma by GER

SDG, Matrix: W05409; 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 Morton **Date** 6/1-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8141494

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: 6/12/08

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/13/2008 1:06:32 PM

Lot No., Due Date: J8E090374,J8E130313,J8E140355,J8E080369,J8E080364; 06/30/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8141493; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05409; WATER

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 6-13-8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8141493

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: 6/13/8

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/11/2008 1:56:11 PM

Lot No., Due Date: J8E090374; 06/30/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8141504; RTRITIUM H-3 by LSC

SDG, Matrix: W05409; 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 Jah- Horton **Date** 6-11-8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8141504

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: 6/12/18

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/12/2008 11:53:25 AM

Lot No., Due Date: J8E090377; 06/30/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8141499; RTC99 Tc-99 by LSC

SDG, Matrix: W05409; 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 Koster **Date** 6-12-8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8141499

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 Good Date: 6/12/08

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

Lot No., Due Date: J8E090379,J8E130315; 06/30/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8141502; RTC99 Tc-99 by LSC

SDG, Matrix: W05409; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used OK	✓		
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. RPD > UCL : 20.0=> KM5JR1AC TC-99 290.0 (RPD)		✓	
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. OK	✓		
8.17 Tracer within Control Limits. No Tracers found in Batch!			✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!			✓
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc_IDL Not Calculated	✓		
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => TC-99 OK; No Callin Level Found => TC-99	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

8.26 Instruments have Current Calibrations. Yes No N/A

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

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

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

8.3 Comments:

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

First Level Review Lisa Anderson Date 6/18/08

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 814502

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: 6/15/18

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/18/2008 2:07:46 PM

Lot No., Due Date: J8E090377; 06/30/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8141498; RUNAT UNat by KPA

SDG, Matrix: W05409; 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** 6-18-8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 814498

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: 6/19/18

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

TestAmerica

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8E080364 W0540 9 Due 06/23/08

C.O.C. # **S08-001-174**

Page 1 of 1

Collector D. J. Sparks	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. S08-001	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JANUARY 2008	HWF-N-56610	**Ice Chest No.** SML-442 **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
B1RTP8		W	5/8/08	1141	1x20-mL P	Activity Scan	None
B1RTP8		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1RTP8		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1RTP8		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1RTP8		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2

KMVLF

DRW 5/8/08

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. J. Sparks			MAY 08 2008 1145	RA Shepard			MAY 08 2008 1145
RA Shepard			5/8/08 1500	LVLane	TAL		5 8 08 1500

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

Amended

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 5 8 08 1500 GM Screen Result 0.1 K

Client: PGW SDG #: W05409 NA[ ] SAF #: 508-001 NA [ ]

Work Order Number: J8EC80364 Chain of Custody # 508-001-174

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: 5 8 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

J8E080369 WO5409 Due 06-23-08

C.O.C. # **S08-002-22**

Page 1 of 1

Collector D. J. Sparks	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. S08-002	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, FEBRUARY 2008	HWF-N-S06-10	**Ice Chest No.** SML-442 **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
B1T404		W	5/8/08	1014	1x20-mL P	Activity Scan	None
B1T404		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1T404		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1T404		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

KMVLW

DFW

5-5-08

Relinquished By	Date/Time	Received By	Date/Time
Print: D. J. Sparks Sign:	MAY 08 2008 1415	Print: KA Sheard Sign:	MAY 08 2008 1415
KA Sheard	5/8/08 1500	LWLANE TAL	5 8 08 1500

Matrix *

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

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

Testamerica

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Amended

FLUOR HANHORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8E080369 WC5409 Due 06-23-08

C.O.C. # **S08-002-23**

Page 1 of 1

Collector D. J. Sparks	Contact/Requester Steve Trent	Telephone No. 509-373-5869 MSIN FAX
SAF No. S08-002	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV, FEBRUARY 2008	HNF-N-506-10	Ice Chest No. SWL-442 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
B1T405		W	5/4/08	0800	1x20-mL P	Activity Scan	None
B1T405		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1T405		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1T405		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

KmVL2

5/8/08

Relinquished By	Received By
Print: D. J. Sparks; Sign; Date/Time: MAY 08 2008 HS	Print: CA Shepard; Sign; Date/Time: MAY 08 2008 HS
Relinquished By: CA Shepard; Date/Time: 5/8/08 1500	Received By: LJ Lane TAL; Date/Time: 5/8/08 1500
Relinquished By; Date/Time	Received By; Date/Time
Relinquished By; Date/Time	Received By; Date/Time

Matrix *

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

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

TestAmerica

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Amended

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 5 8 08 1500 GM Screen Result 0, 1 K

Client: PGW SDG #: W05469 NA[ ] SAF #: 508-002 NA [ ]

Work Order Number: J8EC80369 Chain of Custody # 508-002-22, -23

Shipping Container ID: _____ Air Bill # _____

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

Sample Custodian: _____ Date: 5 8 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 JSE090374 W05409 DUE 62308 KMOG7	C.O.C. # S08-004-281 Page 1 of 1

Collector R. R. Fox	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. 028 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
B1TWH9		W	5-9-08	0918	1x20-mL P	Activity Scan	None
B1TWH9		W	↓	0918	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1TWH9		W	↓	0918	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. R. Fox			1455 5-9-08		L J LANE	TAL	1455 5-9-08
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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Amended

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 5908 1455 GM Screen Result 0.1K

Client: PGW SDG #: W05409 NA[ ] SAF #: 508-004 NA [ ]

Work Order Number: J8E090374 Chain of Custody # 508-004-281

Shipping Container ID: _____ Air Bill # _____

. 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: 5908

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

J8E090377 W05409 DUE 62308 KMOG8

C.O.C. # **A08-004-18**

Page 1 of 1

Collector R. R. Fox	**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-504 13	**Ice Chest No.** 028 **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol Other	**Priority:** 45 Days	**Offsite Property No.**

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

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

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TVM7		W	5-9-08	0918	1x20-mL P	Activity Scan	None
B1TVM7		W	↓	0918	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1TVM7		W	↓	0918	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	R. R. Fox		5-9-08 1455		LJ LANE	TAL	5-9-08 1455
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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Amended

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 5 9 08 1455 GM Screen Result 0.1 K

Client: PGW SDG #: W05409 NA[ ] SAF #: A08-004 NA [ ]

Work Order Number: J8E090377 Chain of Custody # A08-004-18

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: 5 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 _____

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W08-005-20
	JSE090379 W05409 DUE 6 23 08 KMOHF	Page 1 of 1

Collector: R. R. Fox	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA MAY 2008	HNF-N-506-13	Ice Chest No.: 028 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
B1V8W4		W	5/9/08	1154	1x20-mL P	Activity Scan	None
B1V8W4		W	5/9/08	1154	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
R. R. Fox			MAY 09 2008 1455		W LANE	TAL	MAY 09 2008 1455
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica

08

Amended

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W08-005-14
	J8E090379 W05409 DUE 6 23 05 KMDHK	Page 1 of 1

Collector: R. R. Fox	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA MAY 2008	HNF-N-506-13	Ice Chest No.: 028 Temp.
Shipped To (Lab): TestAmerica Incorporated Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1V8W2		W	5/9/08	1054	1x20-mL P	Activity Scan	None
B1V8W2		W			3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
B1V8W2		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
R. R. Fox			1455 MAY 0 9 2008	LJLANE	TAL		1455 MAY 0 9 2008
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica

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Amended

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 5908 1455 GM Screen Result 0.1K

Client: PGW SDG #: W05409 NA[ ] SAF #: W08-005 NA [ ]

Work Order Number: J8E090379 Chain of Custody # W08-005-18,-20

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: RY Date: 5908

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	C.O.C. # I08-027-63
	J8E120170 W05409 DUE 62608 KMZZV	Page 1 of 1

Collector Fluor Hanford D. R. BREWINGTON	**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-326-15	**Ice Chest No.** 6RP-03026 **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
B1TJL6		W	5-9-08	0730	1x20-mL P	Activity Scan	None
B1TJL6		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
D. R. BREWINGTON	D. R. Brewington	1030 MAY 09 2008	R. D. Julian	R. D. Julian	1030 MAY 09 2008
R. D. Julian	R. D. Julian	1300 5-12-08	LJLANE TAL		1310 51208

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

83

Amended

TestAmerica

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I08-027-62
	J8E120170 W05409 DUE 6 26 08 KM220	Page 1 of 1

Collector: FLUOR HANFORD R.F. CARRIGAN	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I08-027	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100NR2IAM, MARCH 2008	HNF-IN-SPE-15	Ice Chest No. SMC-602 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 ☐

5-9-08

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1TJL5		W	5-5-08	1330	1x20-mL P	Activity Scan	None
B1TJL5		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD R.F. CARRIGAN			5-12-08 1030 ~~MAY 0 9 2008~~	R. D. Julian			5-12-08 1030 ~~MAY 0 9 2008~~
R. D. Julian			5-12-08 1310	LVLANE TAL			51208 1310

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

84

Amended

Test America Inc

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8E120170 W05409 DUE 6 26 08 KM222

C.O.C. # **I08-027-8**

Page 1 of 1

Collector FLUOR HANFORD R.F. CARRIGAN	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-027	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100NR2IAM, MARCH 2008	HNF-N-506-15	**Ice Chest No.** 3ML-600 **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
B1TJF8		W	5-4-08	1020	1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
B1TJF8		W	↓	↓	1x20-mL P	Activity Scan	None
B1TJF8		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FLUOR HANFORD R.F. CARRIGAN		R.F. Carrigan	1030 MAY 09 2008	R. D. Julian			1030 MAY 09 2008
R. D. Julian			1310 5-12-08	LJLANE TAL			5 12 08 1310

Matrix *

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

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

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THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 5 12 08 1310 GM Screen Result 0.1K

Client: PGW SDG #: W05409 NA[ ] SAF #: I08-027 NA [ ]

Work Order Number: J8E120170 Chain of Custody # I08-027-8,-62,-63

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: RJ Date: 5 12 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

J8E130313 W05409 DUE 6 27 08 KM5 HT

C.O.C. # **S08-005-34**

Page 1 of 1

Collector: Scott E. Hamaker	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-526-13	Ice Chest No.: 006 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
B1V7K7		W	5-13-08	0901	1x20-mL P	Activity Scan	None
B1V7K7		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
Scott E. Hamaker		Scott Hamaker	5-13-08 1432		LILANE TAL		5-13-08 1432
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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Amended

TestAmerica

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Amended

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J8E130313 WO5409 DUE 62708 KM5HL	C.O.C. # S08-005-35 Page 1 of 1

Collector: Scott E. Hamaker	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-526-13	Ice Chest No.: 106 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
B1V7K8		W	5-13-08	0745	1x20-mL P	Activity Scan	None
B1V7K8		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
Scott E. Hamaker	Scott Hamaker		5-13-08 1430		WLANE TAL		5-13-08 1430
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

J8E130313 W05409 DUE 6 27 08 KM5H4

C.O.C. # **S08-005-140**

Page 1 of 1

Collector Scott E. Hamaker	**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-506-13	**Ice Chest No.** 006 **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
B1V7V4		W	5-13-08	0943	1x20-mL P	Activity Scan	None
B1V7V4		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1V7V4		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
Scott E. Hamaker / Scott Hamaker	5-13-08 1430	LJLANE / TAL	5-13-08 1430
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

Amended

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THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 51308 1430 GM Screen Result 0.1 K

Client: PGW SDG #: W05409 NA[ ] SAF #: 508-005 NA [ ]

Work Order Number: J8E130313 Chain of Custody # 508-005-34,-35,-140

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: _____ Date: 51308

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	C.O.C. # W08-005-3
	J8E130315 W05409 DUE 62208 KM5JR	Page 1 of 1

Collector: Scott E. Hamaker	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, MAY 2008	HNF-N-326-13	Ice Chest No.: EC6 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
B1V8V1		W	5-13-08	0745	1x20-mL P	Activity Scan	None
B1V8V1		W	"	"	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Scott E. Hamaker	Scott Hamaker		5-13-08 1430		L JLANE	TAL	5-13-08 1430
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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Amended

TestAmerica

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J8E130315 W05409 DUE 6 27 08 KMSJO	C.O.C. # W08-005-2 Page 1 of 1

Collector: Scott E. Hamaker	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, MAY 2008	HNF-N-526-13	Ice Chest No.: CC16 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
B1V8V0		W	5-17-08	0901	1x20-mL P	Activity Scan	None
B1V8V0		W	✓	✓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Scott E. Hamaker	Scott Hamaker	Scott Hamaker	5-17-08 1430	RJ LULANE	TAL		5-17-08 1430
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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Amended

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8E130315 W05409 DUE 62708 KM5J2

C.O.C. # **W08-005-172**

Page 1 of 1

Collector Scott E. Hamaker	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. W08-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA MAY 2008	HNF-2-506-13	**Ice Chest No.** 006 **Temp.**
Shipped To (Lab) TestAmerica Incorporated Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1V8M5		W	5-13-08	1246	1x20-mL P	Activity Scan	None
B1V8M5		W	✓	✓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Scott E. Hamaker	Scott Hamaker		5-13-08 1430		R L LANE	TAL	5-13-08 1430
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

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Amended

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8E130315 W05409 DUE 62708 KMSJS

C.O.C. # W08-005-178

Collector: Scott E. Hamaker	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: W08-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA MAY 2008	HNF-N-506-13	Ice Chest No.: CC6 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
** **

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
B1V8M9		W	5/13/08	1034	1x20-mL P	Activity Scan	None
B1V8M9		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
Scott E. Hamaker / Scott Hamaker	5-13-08 1432	R L LANE / TAL	5-13-08 1432
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

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Amended

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8E130315 W05409 DUE 6 27 08 KM5KA

C.O.C. # **W08-005-8**

Page 1 of 1

Collector Scott E. Hamaker	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. W08-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA MAY 2008	HNF-N-506-13	**Ice Chest No.** CC6 **Temp.**
Shipped To (Lab) TestAmerica Incorporated Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol RCRA	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1V8V8		W	5/30/08	1205	1x20-mL P	Activity Scan	None
B1V8V8		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
B1V8V8		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
Scott E. Hamaker	Scott Hamaker		5-30-08 1432		J L LANE		5-30-08 1430
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

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 5 13 08 1430 GM Screen Result 0.1K

Client: PGW SDG #: W05409 NA[ ] SAF #: W08-005 NA [ ]

Work Order Number: J8E130315 Chain of Custody # W08-005-3,-2,-172,-178,-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: 5
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ___ Tape
   - ✓ Custody Seals
   - ✓ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ___ Broken
   - ___ Leaking
   - ___ Have Air Bubbles
   - (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ] Amount HNO_3 Added _____
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: RJ Date: 5 13 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

J8E140355 WO5409 Due 06 27 08

C.O.C. # **I08-038-41**

Page 1 of 1

Collector Randy Ellingsworth	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. 108-038	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2ZP1, MAY 2008	HNF-W-506-40	**Ice Chest No.** B16 10 **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol CERCLA	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1V6H9		W	5/13/08	1133	1x20-mL P	Activity Scan	None
B1V6H9		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						KM710	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Randy Ellingsworth			5-14-08 1330	D.R. Brewington for			5-14-08 1330
Relinquished By			Date/Time	Received By			Date/Time
D.R. Brewington for			5-14-08 1430	LJ LANE TAL			5-14-08 1430
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

97

Amended

TestAmerica

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J8E140355 W05409 Due 06-27-08	C.O.C. # I08-038-27 Page 1 of 1

Collector: Randy Ellingsworth	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: 108-038	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2ZPL MAY 2008	HNF-N-506-10	Ice Chest No.: 516 10 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**
200 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1V6F4		W	5-13-08	0953	1x20-mL P	Activity Scan	None
B1V6F4		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						KM714	

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Randy Ellingsworth	5-14-08 1330	D.R. Brewington	5-14-08 1330
D.R. Brewington	5-14-08 1430	LANE TAL	5-14-08 1430

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

98

Amended

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 05/14/08 1420 **GM Screen Result** 0.1K

Client: PCW **SDG #:** W05409 NA[ ] **SAF #:** I08-138 NA[ ]

Work Order Number: J8E140355 **Chain of Custody #** I08-138-41-27

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** 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: _____ **Date:** 05/14/08

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

6/6/2008 2:00:49 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 #: 245

AnalyDueDate: 06/23/2008 WO5409

Sep1 DT/Tm Tech:

Batch: 8141495 **WATER** **pCi/L**

PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: .HarrisD / Bxkg

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 KMVLF-1-AA J8E080364-1-SAMP 05/08/2008 11:41	AmtRec: 20ML,4XLP,3X4LP	200.30g,in	#Containers: 8	1.5	44.2	50	10M	1635	6/12/08 Scr: Alpha: -4.73E-04 uCi/Sa	Beta: 3.78E-04 uCi/Sa
2 KMVLF-1-AG-X J8E080364-1-DUP 05/08/2008 11:41	AmtRec: 20ML,4XLP,3X4LP	200.20g,in	#Containers: 8		42.2		10B		Scr: Alpha: -4.73E-04 uCi/Sa	Beta: 3.78E-04 uCi/Sa
3 KNJTR-1-AA-B J8E200000-495-BLK 05/08/2008 11:41	AmtRec:	200.40g,in	#Containers: 1		0.7		10C		Scr: Alpha:	Beta:
4 KNJTR-1-AC-C J8E200000-495-LCS 05/08/2008 11:41	AmtRec:	200.20g,in	ASD4487 05/27/08,pd 06/01/01,r #Containers: 1		0.8		10D		Scr: Alpha:	Beta:

Comments: pH 2.0 DLH 6/6/08

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

KMVLF1AA-SAMP Constituent List:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
KNJTR1AA-BLK:					
ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
KNJTR1AC-LCS:					
Am-241	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

KMVLF1AA-SAMP Calc Info:

100

Amended

6/6/2008 2:00:50 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: 06/23/2008

Sep1 DT/Tm Tech:

Batch: 8141495 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B						
KNJTR1AA-BLK:										
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B						
KNJTR1AC-LCS:										
Uncert Level (#s).: 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B						

Approved By _____ Date: _____

6/13/2008 12:00:12 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/14/2007, 6/18/2008, Batch: '8141495', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8141495						
AC		**Rev1C**	**HarrisD**	6/6/2008 1:57:44 PM		
SC			wagarr	IsBatched	5/20/2008 3:31:01 PM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	6/6/2008 1:57:44 PM	RICH-RC-5014 Revision 7
SC			HarrisD	Prep1C	6/6/2008 2:00:25 PM	RICH-RC-5014 REVISION 7
SC			BockJ	InPrep2	6/11/2008 7:26:27 AM	RICH-RC-5014 REVISION 7
SC			BockJ	Prep2C	6/12/2008 2:57:45 PM	RICH-RC-5014 REVISION 7
SC			DAWKINSO	InCnt1	6/12/2008 4:10:32 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	6/12/2008 9:42:51 PM	RICH-RD-0003 REVISION 5
SC			nortonj	Rev1C	6/13/2008 12:00:08 PM	RICH-RC-0002 REV 8
AC			**HarrisD**	6/6/2008 2:00:25 PM		
AC			**BockJ**	6/11/2008 7:26:27		
AC			**BockJ**	6/12/2008 2:57:45 PM		
AC			**DAWKINSO**	6/12/2008 4:10:32 PM		
AC			**DAWKINSO**	6/12/2008 9:42:51 PM		
AC			**nortonj**	6/13/2008 12:00:08		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 7

ICOCFractions v4.8.33

TestAmerica

6/6/2008 2:05:05 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: 24S

AnalyDueDate: 06/23/2008 W05409

Batch: 8141496 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SS , 57671

Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,HarrisD Boxx

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 KMVLF-1-AC J8E080364-1-SAMP 05/08/2008 11:41		200.00g,in AmtRec: 20ML,4XLP,3X4LP #Containers: 8		1.5	91.9	100	2GA Scr:	0856 Alpha: -4.73E-04 uCi/Sa	6/13/08 Beta: 3.78E-04 uCi/Sa	
2 KM222-1-AE J8E120170-3-SAMP 05/09/2008 10:22		169.60g,in AmtRec: VIAL20,4XLP #Containers: 5			143.4		2GB Scr:	Alpha: -7.61E-04 uCi/Sa	Beta: 1.15E-03 uCi/Sa	
3 KM222-1-AF-X J8E120170-3-DUP 05/09/2008 10:22		169.50g,in AmtRec: VIAL20,4XLP #Containers: 5			144.9		2GC Scr:	Alpha: -7.61E-04 uCi/Sa	Beta: 1.15E-03 uCi/Sa	
4 KNJTT-1-AA-B J8E200000-496-BLK 05/09/2008 10:22		200.00g,in AmtRec: #Containers: 1			0.1		2GD Scr:	Alpha:	Beta:	
5 KNJTT-1-AC-C J8E200000-496-LCS 05/09/2008 10:22		200.20g,in AmtRec: #Containers: 1	BESB3257 05/27/08,pd 10/11/06,		0.6		2GA Scr:	Alpha:	Beta:	

Comments: KM222-SAMP "Comments Sr-sample yellow in color drm 6/5/08"

pH 2.0 Aliquot reduced due to ut screens Dtt 6/6/08

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

KMVLF1AC-SAMP Constituent List:

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

103

Amended

6/6/2008 2:05:06 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: 06/23/2008

Sep1 DT/Tm Tech:

Batch: 8141496 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:

```
 BETA        RDL:4          pCi/L    LCL:       UCL:       RPD:
KNJTT1AA-BLK:
 BETA        RDL:4.00E+00   pCi/L    LCL:       UCL:       RPD:
KNJTT1AC-LCS:
 Sr-90       RDL:           pCi/L    LCL:70     UCL:130    RPD:20
KMVLF1AC-SAMP Calc Info:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
KNJTT1AA-BLK:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
KNJTT1AC-LCS:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

Approved By _____ Date: _____

6/13/2008 2:36:27 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/14/2007, 6/18/2008, Batch: '8141496', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8141496						
AC		**Rev1C**	**HarrisD**	6/6/2008 2:00:55 PM		
SC			wagarr	IsBatched	5/20/2008 3:31:01 PM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	6/6/2008 2:00:55 PM	RICH-RC-5014 Revision 7
SC			HarrisD	Prep1C	6/6/2008 2:05:08 PM	RICH-RC-5014 REVISION 7
SC			BockJ	InPrep2	6/11/2008 7:26:34 AM	RICH-RC-5014 REVISION 7
SC			BockJ	Prep2C	6/12/2008 2:57:59 PM	RICH-RC-5014 REVISION 7
SC			DAWKINSO	InCnt1	6/12/2008 4:10:26 PM	RICH-RD-0003 REVISION 5
SC			ClarkR	CalcC	6/13/2008 9:35:13 AM	RICH-RD-0003 REVISION 5
SC			nortonj	Rev1C	6/13/2008 2:36:20 PM	RICH-RC-0002 REV 8
AC			**HarrisD**	6/6/2008 2:05:08 PM		
AC			**BockJ**	6/11/2008 7:26:34		
AC			**BockJ**	6/12/2008 2:57:59 PM		
AC			**DAWKINSO**	6/12/2008 4:10:26 PM		
AC			**ClarkR**	6/13/2008 9:35:13		
AC			**nortonj**	6/13/2008 2:36:20 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 7

ICOCFractions v4.8.33

REMIK

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RE-ANALYSIS REQUEST

DUE DATE 6/23/08

CUSTOMER PGW

ANALAYSIS SL

MATRIX water

LOT NUMBER JBE20170

SAMPLE DELIVERY GROUP

OLD BATCH NUMBER 8141497

NEW BATCH NUMBER 8175548

LAB SAMPLE ID	CLIENT ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1) KM2201AA		dropped while flaming
2) KNJTV1AC		159% LCS
3)		
4)		
5)		
6)		
7)		Sep date
8)		
9)		6/18/08 11:00 AM
10)		
11)		
12)		
13)		
14)		
15)		
16)		
17)		
18)		
19)		
20)		
LAB QC ID		Assigned with new batch.

RC-048, 12/07, Rev 8

TestAmerica

6/25/2008 3.32.22 PM

Sample Preparation/Analysis

Balance Id:E32905

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: 06/26/2008

Sep1 DT/Tm Tech: 06/18/2008 11:00,ManisD

Batch: 8175548 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech: 06/25/2008 09:38,ManisD

SEQ Batch, Test: None

Prep Tech: ManisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KM220-2-AA					1.0	21.2	100	7A	0746	6/26/08	
J8E120170-2-SAMP								7A	0821	6/26/08	
					986.70						
					0.5268	~~06/18/2008 11:00,s1, 06/25/2008~~					
05/09/2008 13:39		AmtRec: VIAL20,3XLP		#Containers: 4				Scr:	Alpha: -2.14E-04 uCi/Sa		Beta: 4.68E-04 uCi/Sa
2 KNJTV-2-AC-C					1.0	21.9	100	7B	0746	6/26/08	
J8E200000-497-LCS								7B	0821	6/26/08	
					1000.17						
			SR56/470		0.7717	~~06/18/2008 11:00,s1, 06/25/2008~~					
05/08/2008 10:14		AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:

Comments:

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

KM2202AA-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

KNJTV2AC-LCS 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

KM2202AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KNJTV2AC-LCS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

107

Amended

6/23/2008 4:15:29 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 06/26/2008

Batch: 8175548 **WATER** **pCi/L**
SEQ Batch, Test: None

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

PM, Quote: SS , 57671

Balance Id:
Pipet #: DRM
Sep1 DT/Tm Tech: 6/18/08 11:00 AM
Sep2 DT/Tm Tech: 6/25/08 9:38:32 AM
Prep Tech: DRM

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 KM220-2-AA											
J8E120170-2-SAMP											
YTA18962 Ex:4/29/2009											
05/09/2008 13:39		AmtRec: VIAL20,3XLP		#Containers: 4					Scr:	Alpha: -2.14E-04 uCi/Sa	Beta: 4.68E-04 uCi/Sa
2 KNJTV-2-AC-C											
J8E200000-497-LCS											
YTA18963 Ex:4/29/2009											
05/08/2008 10:14		AmtRec:		#Containers: 1					Scr:	Alpha:	Beta:

Comments:

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

KM2202AA-SAMP Constituent List:

KNJTV2AC-LCS Constituent List:

KM2202AA-SAMP Calc Info:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
KNJTV2AC-LCS Calc Info:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

Test America
106
Amended

6/25/2008 3:32:22 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:E32905

Pipet #: _____

AnalyDueDate: 06/26/2008

Sep1 DT/Tm Tech: 06/18/2008 11:00,ManisD

Batch: 8175548 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech: 06/25/2008 09:38,ManisD

Prep Tech: ManisD

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

Approved By _____ Date: _____

TestAmerica

6/5/2008 12:25:45 PM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: DRM

AnalyDueDate: 06/23/2008

W05409

Sep1 DT/Tm Tech: 6/6/08 11:21:11

Batch: 8141497 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech: 6-19-08 1100

SEQ Batch, Test: None All Tests: 8141493 BNTB, 8141494 AWTA, 8141495 AZS7, 8141496 BCS8, 8141497 CLTL,

Prep Tech: ,LucasD

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 KMVLF-1-AF		1000.25g,in	SRTB16243				100	9'	1348	6/6/08	
J8E080364-1-SAMP			05/21/08,pd	1.466	022.0			2P	0631	6/20/08	
				20105	-			2L	0842	6/21/08	
	YTA18929 Ex:4/29/2009			0.7292							
05/08/2008 11:41		AmtRec: 20ML,4XLP,3X4LP		#Containers: 8				Scr:	Alpha: -4.73E-04 uCi/Sa		Beta: 3.78E-04 uCi/Sa
2 KMVLW-1-AD		1000.21g,in	SRTB16244	1.703 -				3'	1347	6/6/08	
J8E080369-1-SAMP			05/21/08,pd	2.0104 -		023.6		2B	0631	6/20/08	
								2B	0842	6/21/08	
	YTA18930 Ex:4/29/2006			0.8471							
05/08/2008 10:14		AmtRec: 20ML,3XLP,3X4LP		#Containers: 7				Scr:	Alpha: -1.20E-03 uCi/Sa		Beta: 1.02E-03 uCi/Sa
3 KMVLW-1-AE-X		1000.26g,in	SRTB16245	1.551 -				9'	1349	6/6/08	
J8E080369-1-DUP			05/21/08,pd	2.0185 -		023.6		2C	0631	6/20/08	
								2C	0842	6/21/08	
	YTA18931 Ex:4/29/2006			0.7684							
05/08/2008 10:14		AmtRec: 20ML,3XLP,3X4LP		#Containers: 7				Scr:	Alpha: -1.20E-03 uCi/Sa		Beta: 1.02E-03 uCi/Sa
4 KMVL2-1-AD		997.54g,in	SRTB16246	1.749 -				3'	1350	6/6/08	
J8E080369-2-SAMP			05/21/08,pd	2.0181 -		023.4		2D	0631	6/20/08	
								2D	0842	6/21/08	
	YTA18932 Ex:4/29/2006			0.8688							
05/08/2008 08:00		AmtRec: 20ML,3XLP,3X4LP		#Containers: 7				Scr:	Alpha: -4.69E-03 uCi/Sa		Beta: 3.33E-03 uCi/Sa

Sep Time Approximatly !

110

Amended

TestAmerica

6/5/2008 12:25:46 PM

Sample Preparation/Analysis

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

Balance Id:1120373922
Pipet #:

AnalyDueDate: 06/23/2008

Sep1 DT/Tm Tech:

Batch: 8141497 WATER pCi/L **PM, Quote: SS , 57671**
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,LucasD

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 KM22V-1-AA		996.25g,in	SRTB16247	1.606				9	1351	6/6/[illegible]	
J8E120170-1-SAMP			05/21/08,pd	2.0158		0233		3A	0631	6/[illegible]	
								7A	0842	6/21/[illegible]	
	YTA18933 Ex:4/29/2009			0.7969							
05/09/2008 07:30		AmtRec: VIAL20,3XLP		#Containers: 4				Scr:	Alpha: -2.59E-05 uCi/Sa		Beta: -1.28E-04 uCi/Sa
6 KM220-1-AA		986.70g,in	SRTB16248	1.059				3	1351	6/6/[illegible]	
J8E120170-2-SAMP			05/21/08,pd	2.0104		002.1		3B	0631	6/20/[illegible]	
	YTA18934 Ex:4/29/2009			0.5268				7B	0842	6/21/[illegible]	
05/09/2008 13:39		AmtRec: VIAL20,3XLP		#Containers: 4				Scr:	Alpha: -2.14E-04 uCi/Sa		Beta: 4.68E-04 uCi/Sa
7 KM222-1-AD		1000.03g,in	SRTB16249	0.824				9	1423	6/6/[illegible]	
J8E120170-3-SAMP			05/21/08,pd	2.0158		023.9		3C	0631	6/20/[illegible]	
	YTA18935 Ex:4/29/2009			0.4088				7C	0842	6/21/[illegible]	
05/09/2008 10:22		AmtRec: VIAL20,4XLP		#Containers: 5				Scr:	Alpha: -7.61E-04 uCi/Sa		Beta: 1.15E-03 uCi/Sa
8 KNJTV-1-AA-B		1000.25g,in	SRTB16250	1.698				3	1423	6/6/[illegible]	
J8E200000-497-BLK			05/21/08,pd	2.0158		018.9		3D	0631	6/[illegible]	
	YTA18936 Ex:4/29/2009			0.8423				7D	0842	6/21/[illegible]	
05/08/2008 10:14		AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:

KM220 Dropped while Flaming
Blank Dropped while Weighing

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Amended

6/5/2008 12:25:46 PM

Sample Preparation/Analysis

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

Balance Id:1120373922
Pipet #:

AnalyDueDate: 06/23/2008

Sep1 DT/Tm Tech:

Batch: 8141497 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ManisD,LucasD

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 KNJTV-1-AC-C		1000.17g,in	SRSG1470	1.616				9"	544	6/6/08	
J8E200000-497-LCS			04/11/08,pd 05/22/07,r	2.0406		0.22.9					
								4A	0837	6/	
	VTA18937 Ex:4/29/2009			0.7919				4A	0842	6/21/08	
05/08/2008 10:14		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:

Comments: KM222-SAMP "Comments Sr-sample yellow in color drm 6/5/08"

KM 220 Dropped while Flamming
Blank Dropped while weighing

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

KMVLF1AF-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
KNJTV1AA-BLK:											
Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:	UCL:	RPD:
KNJTV1AC-LCS:											
Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:70	UCL:130	RPD:20

KMVLF1AF-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJTV1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJTV1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TestAmerica 112 Amended

6/27/2008 12:49:33 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/28/2007, 7/2/2008, Batch: '8175548', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8175548						
AC		Rev1C	ManisD	6/25/2008 3:33:37 PM		
SC			antonsonl	IsBatched	6/23/2008 4:15:28 PM	ICOC_RADCALC v4.8.32
SC			ManisD	Sep2C	6/25/2008 3:33:37 PM	RL-GPC-004 REV 0
SC			DAWKINSO	InCnt2	6/25/2008 4:43:27 PM	RL-CI-006 REVISION 0
SC			ClarkR	CalcC	6/27/2008 7:43:36 AM	RL-CI-006 REVISION 0
SC			antonsonl	Rev1C	6/27/2008 12:49:29 PM	RICH-RC-0002 REV 8
AC			DAWKINSO	6/25/2008 4:43:27 PM		
AC			ClarkR	6/27/2008 7:43:36		
AC			antonsonl	6/27/2008 12:49:29		

C: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 4

ICOCFractions v4.8.33

6/27/2008 12:41:52 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/28/2007, 7/2/2008, Batch: '8141497', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting		Comments
8141497					
AC	Rev1C	MarisD	6/5/2008 [illegible]:20 AM		
SC		wa[illegible]	IsBatch[illegible]	5/20/2008 [illegible]:01 PM	ICOC_RADCALC v4.8.32
SC		Ma[illegible]D	InPrep	6/5/2008 8:[illegible]:20 AM	RICH-RC-5006 REV 7
SC		Lu[illegible]sD	InPrep	6/5/2008 1[illegible]:0:28 AM	RICH-RC-5016 Revision 7
SC		Ma[illegible]sD	InSep1	6/5/2008 1[illegible]:1:16 AM	RICH-RC-5006 REV 7
SC		Ma[illegible]sD	Sep1C	6/6/2008 11:[illegible]2:31 AM	RICH-RC-5006 REV 7
SC		Bla[illegible]CL	InCnt1	6/6/2008 12:15:46 PM	RICH-RD-0007 REVISION 6
SC		DA[illegible]KI[illegible]SO	Cnt1C	6/6/2008 8:[illegible]:22 PM	RICH-RD-0007 REVISION 6
SC		DA[illegible]KI[illegible]SO	InC[illegible]	6/19/2008 7:[illegible]4:08 PM	RICH-RD-0003 REVISION 5
SC		Bl[illegible]CL	CalcC	6/23/2008 [illegible]6:28 AM	RL-CI-006 REVISION 0
SC		[illegible]	Rev1C	6/27/2008 1[illegible]:41:39 PM	RICH-RC-0002 REV 8
AC		LuisD	6/5/2008 [illegible]:30:28		
AC		Ma[illegible]sD	6/5/2008 [illegible]:11:16		
AC		MarisD	6/6/2008 [illegible]:52:31		
AC		BlackCL	6/6/2008 12:15:46 PM		
AC		DA[illegible]KI[illegible]SO	6/6/2008 [illegible]:00:22 PM		
AC		DA[illegible]KI[illegible]SO	6/19/2008 7:14:08 PM		
AC		Bl[illegible]CL	6/23/2008 [illegible]:16:28		
AC		[illegible]	6/27/2008 12:41:39		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 9

ICOCFractions v4.8.33

TestAmerica

6/6/2008 2:26:41 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 06/23/2008 W05409

Sep1 DT/Tm Tech:

Batch: 8141494 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD | Back 3.

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 KMVLF-1-AD J8E080364-1-SAMP 05/08/2008 11:41		2000.00g,in AmtRec: 20ML,4XLP,3X4LP #Containers: 8			100mls	200	65	1530	6/10/08 ~~1537~~ 6/10/08 cs	Scr: Alpha: -4.73E-04 uCi/Sa Beta: 3.78E-04 uCi/Sa
2 KMVLW-1-AA J8E080369-1-SAMP 05/08/2008 10:14		2000.30g,in AmtRec: 20ML,3XLP,3X4LP #Containers: 7					66	1530		Scr: Alpha: -1.20E-03 uCi/Sa Beta: 1.02E-03 uCi/Sa
3 KMVL2-1-AA J8E080369-2-SAMP 05/08/2008 08:00		2000.20g,in AmtRec: 20ML,3XLP,3X4LP #Containers: 7					67	1531		Scr: Alpha: -4.69E-03 uCi/Sa Beta: 3.33E-03 uCi/Sa
4 KM0HF-1-AA J8E090379-1-SAMP 05/09/2008 11:54		2000.30g,in AmtRec: VIAL20,4LP #Containers: 2					68	1531		Scr: Alpha: -8.18E-06 uCi/Sa Beta: -3.47E-04 uCi/Sa
5 KM0HK-1-AA J8E090379-2-SAMP 05/09/2008 10:54		2000.10g,in AmtRec: VIAL20,3XLP,4LP #Containers: 5					610	1531		Scr: Alpha: -4.89E-04 uCi/Sa Beta: 2.43E-04 uCi/Sa
6 KM5HT-1-AA J8E130313-1-SAMP 05/13/2008 09:01		2000.20g,in AmtRec: VIAL20,4LP #Containers: 2					611	1531		Scr: Alpha: 2.70E-04 uCi/Sa Beta: -4.35E-04 uCi/Sa
7 KM5HT-1-AC-X J8E130313-1-DUP 05/13/2008 09:01	See comments	AmtRec: VIAL20,4LP #Containers: 2					~~613~~ 614	1915	6/10/08 rmc	Scr: Alpha: 2.70E-04 uCi/Sa Beta: -4.35E-04 uCi/Sa

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Amended

TestAmerica

6/6/2008 2:26:43 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 06/23/2008

Sep1 DT/Tm Tech:

Batch: 8141494 **WATER** **pCi/L** **PM, Quote: SS , 57671**

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 KM5H1-1-AA J8E130313-2-SAMP 05/13/2008 07:45		2000.30g,in AmtRec: VIAL20,4LP #Containers: 2			100 mes	200	G3	1532	6/10/8	Scr: Alpha: -5.33E-04 uCi/Sa Beta: -8.20E-05 uCi/Sa
9 KM5H4-1-AA J8E130313-3-SAMP 05/13/2008 09:43		2000.30g,in AmtRec: VIAL20,3X4LP #Containers: 4					G4	1532		Scr: Alpha: 8.20E-03 uCi/Sa 2.6E-01L Beta: 1.51E-04 uCi/Sa
10 KM5J5-1-AA J8E130315-4-SAMP 05/13/2008 10:34		1999.80g,in AmtRec: VIAL20,4LP #Containers: 2					G5	1532		Scr: Alpha: 4.68E-03 uCi/Sa 1.5E-01L Beta: -4.35E-04 uCi/Sa
11 KM5KA-1-AA J8E130315-5-SAMP 05/13/2008 12:05		2000.30g,in AmtRec: VIAL20,3XLP,4LP #Containers: 5					G6	1916	6/10/08	Scr: Alpha: 2.77E-03 uCi/Sa Beta: -3.75E-04 uCi/Sa
12 KNJTP-1-AA-B J8E200000-494-BLK 05/13/2008 09:01		2000.50g,in AmtRec: #Containers: 1					G10	1917		Scr: Alpha: Beta:
13 KNJTP-1-AC-C J8E200000-494-LCS 05/13/2008 09:01		2000.40g,in AmtRec: #Containers: 1	QCAG1475 04/23/08,pd 06/11/05,r				G8	1918		Scr: Alpha: Beta:

Amended

TestAmerica

6/6/2008 2:26:44 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 06/23/2008

Sep1 DT/Tm Tech:

Batch: 8141494 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

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

Comments: KM5HT-SAMP "Comments: isv for gamma dup. Please recount on a different detector. DLH 6/6/08"

PH2.0 DLH 6/6/08

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

KMVLF1AD-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:

KNJTP1AA-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:

KNJTP1AC-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						

KMVLF1AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KNJTP1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KNJTP1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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Amended

6/11/2008 2:31:56 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/12/2007, 6/16/2008, Batch: '8141494', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8141494						
AC		Rev1C	HarrisD	6/6/2008 2:11:24 PM		
SC			wagarr	IsBatched	5/20/2008 3:31:01 PM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	6/6/2008 2:11:24 PM	RICH-RC-5014 Revision 7
SC			HarrisD	Prep1C	6/6/2008 2:27:34 PM	RICH-RC-5017 REVISION 6
SC			BlackCL	InPrep2	6/9/2008 7:57:17 AM	RICH-RC-5017 REVISION 6
SC			BockJ	Prep2C	6/10/2008 11:37:16 AM	RICH-RC-5017 REVISION 6
SC			BlackCL	InCnt1	6/10/2008 12:07:57 PM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	CalcC	6/10/2008 8:51:39 PM	RICH-RD-0007 REVISION 6
SC			nortonj	Rev1C	6/11/2008 2:31:40 PM	RICH-RC-0002 REV 8
AC			HarrisD	6/6/2008 2:27:34 PM		
AC			BlackCL	6/9/2008 7:57:17 AM		
AC			BockJ	6/10/2008 11:37:16		
AC			BlackCL	6/10/2008 12:07:57		
AC			DAWKINSO	6/10/2008 8:51:39 PM		
AC			nortonj	6/11/2008 2:31:40 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 7

ICOCFractions v4.8.33

TestAmerica

6/9/2008 6:18:39 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 06/23/2008 W05409

Batch: 8141493 **WATER** **pCi/L**
SEQ Batch, Test: None

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

PM, Quote: SS , 57671

Balance Id:1120482733
Pipet #: _____
Sep1 DT/Tm Tech:
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:
1 KMVLF-1-AE J8E080364-1-SAMP 05/08/2008 11:41		3909.00g,in AmtRec: 20ML,4XLP,3X4LP	ITA7296 05/21/08 #Containers: 8		35.6	100	L7	1145	6/12/08 RC	
								Scr: Alpha: -4.73E-04 uCi/Sa		Beta: 3.78E-04 uCi/Sa
2 KMVLW-1-AC J8E080369-1-SAMP 05/08/2008 10:14		3901.80g,in AmtRec: 20ML,3XLP,3X4LP	ITA7297 05/21/08 #Containers: 7		38.9		L4	1146		
								Scr: Alpha: -1.20E-03 uCi/Sa		Beta: 1.02E-03 uCi/Sa
3 KMVL2-1-AC J8E080369-2-SAMP 05/08/2008 08:00		3904.00g,in AmtRec: 20ML,3XLP,3X4LP	ITA7298 05/21/08 #Containers: 7		34.1		L5	1147		
								Scr: Alpha: -4.69E-03 uCi/Sa		Beta: 3.33E-03 uCi/Sa
4 KM0G7-1-AC J8E090374-1-SAMP 05/09/2008 09:18		3815.10g,in AmtRec: VIAL20,LP,2X4LP	ITA7299 05/21/08 #Containers: 4		34.4		L2	1329	6/12/08 RC	
								Scr: Alpha: -2.36E-04 uCi/Sa		Beta: 1.42E-05 uCi/Sa
5 KM5H4-1-AC J8E130313-3-SAMP 05/13/2008 09:43		3906.90g,in AmtRec: VIAL20,3X4LP	ITA7300 05/21/08 #Containers: 4		33.1		L4	1330		
								Scr: Alpha: 8.20E-03 uCi/Sa 2.6E-01L		Beta: 1.51E-04 uCi/Sa
6 KM710-1-AA J8E140355-1-SAMP 05/13/2008 11:33		3892.70g,in AmtRec: 20ML,2X4LP	ITA7301 05/21/08 #Containers: 3		36.1		L5	1331		
								Scr: Alpha: -1.07E-03 uCi/Sa		Beta: 1.34E-03 uCi/Sa
7 KM710-1-AC-X J8E140355-1-DUP 05/13/2008 11:33		3893.40g,in AmtRec: 20ML,2X4LP	ITA7302 05/21/08 #Containers: 3		33.2		L2	1517	6/12/08 RC	
								Scr: Alpha: -1.07E-03 uCi/Sa		Beta: 1.34E-03 uCi/Sa

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Amended

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: 7
Prep_SamplePrep v4.8.32

TestAmerica

6/9/2008 6:18:41 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory .
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: _____

AnalyDueDate: 06/23/2008

Sep1 DT/Tm Tech:

Batch: 8141493 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 KM714-1-AA J8E140355-2-SAMP 05/13/2008 09:53		3884.80g,in AmtRec: 20ML,2X4LP	ITA7303 05/21/08 #Containers: 3		34.5	100	L4	1519 Scr: Alpha: -6.97E-04 uCi/Sa	6/12/08 KC Beta: 2.40E-03 uCi/Sa	
9 KNJTD-1-AA-B J8E200000-493-BLK 05/13/2008 11:33		3992.40g,in AmtRec:	ITA7304 05/21/08 #Containers: 1		34.9		L5	1519 Scr: Alpha:	Beta:	
10 KNJTD-1-AC-C J8E200000-493-LCS 05/13/2008 11:33		3954.50g,in AmtRec:	ISD0852 04/22/08 #Containers: 1		34.8		L4	1748 Scr: Alpha:	6/12/08 Beta:	

Comments: DH 6/9/08

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

KMVLF1AE-SAMP Constituent List:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
KNJTD1AA-BLK:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
KNJTD1AC-LCS:
I-129 RDL:5 pCi/L LCL:70 UCL:130 RPD:20
KMVLF1AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJTD1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJTD1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

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Amended

6/9/2008 6:18:42 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 06/23/2008

Sep1 DT/Tm Tech:

Batch: 8141493 **pCi/L**
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD

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

Approved By _____ Date: _____

TestAmerica 121 Amended

6/13/2008 12:04:35 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/14/2007, 6/18/2008, Batch: '8141493', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8141493						
AC		**Rev1C**	**HarrisD**	6/9/2008 5:54:44 PM		
SC			wagarr	IsBatched	5/20/2008 3:31:01 PM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	6/9/2008 5:54:44 PM	rich-rc-5015 rEVISION 6
SC			HarrisD	Prep1C	6/9/2008 6:18:44 PM	RICH-RC-5017 REVISION 6
SC			BostedD	InPrep2	6/10/2008 8:06:34 AM	RICHRC5025 REVISION 4
SC			BostedD	Prep2C	6/12/2008 10:01:16 AM	RICHRC5025 REVISION 4
SC			ClarkR	InCnt1	6/12/2008 10:03:12 AM	RICH-RD-0007 REVISION 6
SC			DAWKINSO	CalcC	6/12/2008 9:43:56 PM	RICH-RD-0007 REVISION 6
SC			nortonj	Rev1C	6/13/2008 12:04:29 PM	RICH-RC-0002 REV 8
AC			**HarrisD**	6/9/2008 6:18:44 PM		
AC			**BostedD**	6/10/2008 8:06:34		
AC			**BostedD**	6/12/2008 10:01:16		
AC			**ClarkR**	6/12/2008 10:03:12		
AC			**DAWKINSO**	6/12/2008 9:43:56 PM		
AC			**nortonj**	6/13/2008 12:04:29		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

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Grp Rec Cnt: 7

ICOCFractions v4.8.33

5/20/2008 3:22:07 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory .
Pacific Northwest National Lab

AnalyDueDate: 06/23/2008 W0549

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

Batch: 8141504 **WATER** **pCi/L**
SEQ Batch, Test: None

PM, Quote: SS , 57671

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 5-28-08 DW
Scp2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KM0G7-1-AA J8E090374-1-SAMP 05/09/2008 09:18		AmtRec: VIAL20,LP,2X4LP	#Containers: 4			Scr:	Alpha:	Beta:
2 KM0G7-1-AD-X J8E090374-1-DUP 05/09/2008 09:18		AmtRec: VIAL20,LP,2X4LP	#Containers: 4			Scr:	Alpha:	Beta:
3 KNJT7-1-AA-B J8E200000-504-BLK 05/09/2008 09:18		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
4 KNJT7-1-AC-C J8E200000-504-LCS 05/09/2008 09:18		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
5 KNJT7-1-AD-B J8E200000-504-BLK 05/09/2008 09:18		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 KNJT7-1-AE-C J8E200000-504-LCS 05/09/2008 09:18		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
7 KNJT7-1-AF-B J8E200000-504-BLK 05/09/2008 09:18		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

TestAmerica 123 Amended

TestAmerica

5/20/2008 3:22:07 PM

Sample Preparation/Analysis

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

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 5-28-08 am
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 06/23/2008

Batch: 8141504 pCi/L
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 KNJT7-1-AG-B								
J8E200000-504-BLK								
05/09/2008 09:18		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

KM0G71AA-SAMP Constituent List:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
KNJT71AA-BLK:

KNJT71AC-LCS:

KNJT71AD-BLK:

KNJT71AE-LCS:

KNJT71AF-BLK:

KNJT71AG-BLK:

KM0G71AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJT71AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJT71AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJT71AD-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJT71AE-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJT71AF-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

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Amended

5/20/2008 3:22:07 PM

Sample Preparation/Analysis

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

Balance Id:

Pipet #: _____

AnalyDueDate: 06/23/2008

Sep1 DT/Tm Tech:

Batch: 8141504 pCi/L

SEQ Batch, Test: None

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:

KNJT71AG-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

6/11/2008 1:55:18 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/12/2007, 6/16/2008, Batch: '8141504', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8141504						
AC		**Rev1C**	**McDowellD**	5/28/2008 10:22:08		
SC			wagarr	IsBatched	5/20/2008 3:31:01 PM	ICOC_RADCALC v4.8.32
SC			McDowellD	InSep1	5/28/2008 10:22:08 AM	RICH-RC-5007 REVISION 6
SC			McDowellD	Sep1C	5/29/2008 1:11:57 PM	RICH-RC-5007 REVISION 6
SC			DAWKINSO	InCnt1	5/29/2008 3:55:51 PM	RICH-RD-0001 REVISION 4
SC			ClarkR	InCnt1	6/2/2008 6:35:26 AM	RICH-RD-0001 REVISION 4
SC			ClarkR	CalcC	6/2/2008 6:36:02 AM	RICH-RD-0001 REVISION 4
SC			nortonj	Rev1C	6/11/2008 1:55:08 PM	RICH-RC-0002 REV 8
AC			**McDowellD**	5/29/2008 1:11:57 PM		
AC			**DAWKINSO**	5/29/2008 3:55:51 PM		
AC			**ClarkR**	6/2/2008 6:35:26 AM		
AC			**ClarkR**	6/2/2008 6:36:02 AM		
AC			**nortonj**	6/11/2008 1:55:08 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

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Grp Rec Cnt: 6

ICOCFractions v4.8.33

TestAmerica

6/5/2008 8:16:50 AM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 06/23/2008

Sep1 DT/Tm Tech:

Batch: 8141499 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 KM0G8-1-AA J8E090377-1-SAMP 05/09/2008 09:18		AmtRec: VIAL20,2X500MLP	125.01g,in	125.01g #Containers: 3		60	Scr:	Alpha: -6.59E-05 uCi/Sa		Beta: 4.57E-05 uCi/Sa
2 KM0G8-1-AF-S J8E090377-1-MS 05/09/2008 09:18		AmtRec: VIAL20,2X500MLP	125.01g,in	125.01g #Containers: 3	TCSG2064 05/20/08,pd 01/10/06,r		Scr:	Alpha: -6.59E-05 uCi/Sa		Beta: 4.57E-05 uCi/Sa
3 KM0G8-1-AG-X J8E090377-1-DUP 05/09/2008 09:18		AmtRec: VIAL20,2X500MLP	125.00g,in	125.00g #Containers: 3			Scr:	Alpha: -6.59E-05 uCi/Sa		Beta: 4.57E-05 uCi/Sa
4 KNJTX-1-AA-B J8E200000-499-BLK 05/09/2008 09:18		AmtRec:	125.01g,in	125.01g #Containers: 1			Scr:	Alpha:		Beta:
5 KNJTX-1-AC-C J8E200000-499-LCS 05/09/2008 09:18		AmtRec:	125.01g,in	125.01g #Containers: 1	TCSE2223 04/11/08,pd 01/10/06,r		Scr:	Alpha:		Beta:
6 KNJTX-1-AD-B J8E200000-499-BLK 05/09/2008 09:18		AmtRec:		#Containers: 1			Scr:	Alpha:		Beta:

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Amended

TestAmerica

6/5/2008 8:16:51 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 06/23/2008

Batch: 8141499 pCi/L
SEQ Batch, Test: None

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

Comments:

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

KM0G81AA-SAMP Constituent List:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
KM0G81AF-MS Constituent List:

KNJTX1AA-BLK:

KNJTX1AC-LCS:

KNJTX1AD-BLK:

KM0G81AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KM0G81AF-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJTX1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJTX1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJTX1AD-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

Amended

6/12/2008 11:52:42 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/13/2007, 6/17/2008, Batch: '8141499', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8141499						
AC		Rev1C	Barcotl	6/5/2008 8:17:03 AM		
SC			wagarr	IsBatched	5/20/2008 3:31:01 PM	ICOC_RADCALC v4.8.32
SC			Barcotl	InPrep	6/5/2008 8:17:03 AM	RICH-RC-5016 REVISION 7
SC			Barcotl	Prep1C	6/5/2008 8:17:14 AM	RICH-RC-5016 REVISION 7
SC			Barcotl	InPrep	6/11/2008 12:28:51 PM	RICH-RC-5065 REVISION 6
SC			Barcotl	Prep1C	6/11/2008 12:31:32 PM	RICH-RC-5065 REVISION 6
SC			ClarkR	InCnt1	6/11/2008 12:51:59 PM	RICH-RD-0001 REVISION 4
SC			ClarkR	CalcC	6/12/2008 7:35:13 AM	RICH-RD-0001 REVISION 4
SC			nortonj	Rev1C	6/12/2008 11:52:36 AM	RICH-RC-0002 REV 8
AC			Barcotl	6/5/2008 8:17:14 AM		
AC			Barcotl	6/11/2008 12:28:51		
AC			Barcotl	6/11/2008 12:31:32		
AC			ClarkR	6/11/2008 12:51:59		
AC			ClarkR	6/12/2008 7:35:13		
AC			nortonj	6/12/2008 11:52:36		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 7

ICOCFractions v4.8.33

6/5/2008 6:47:11 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: 06/23/2008

Sep1 DT/Tm Tech:

Batch: 8141502 **WATER** **pCi/L** **PM, Quote: SS , 57671**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 8141494 AWTA, 8141502 AMS5,

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 KM0HK-1-AC J8E090379-2-SAMP 05/09/2008 10:54	AmtRec: VIAL20,3XLP,4LP #Containers: 5	125.00g,in		60		Scr:	Alpha: -4.89E-04 uCi/Sa	Beta: 2.43E-04 uCi/Sa
2 KM5JR-1-AA J8E130315-1-SAMP 05/13/2008 07:45	AmtRec: VIAL20,3XLP #Containers: 4	125.00g,in				Scr:	Alpha: 2.62E-06 uCi/Sa	Beta: 2.36E-04 uCi/Sa
3 KM5JR-1-AC-X J8E130315-1-DUP 05/13/2008 07:45	AmtRec: VIAL20,3XLP #Containers: 4	125.00g,in				Scr:	Alpha: 2.62E-06 uCi/Sa	Beta: 2.36E-04 uCi/Sa
4 KM5J0-1-AA J8E130315-2-SAMP 05/13/2008 09:01	AmtRec: VIAL20,3XLP #Containers: 4	125.01g,in				Scr:	Alpha: -5.45E-04 uCi/Sa	Beta: 4.68E-04 uCi/Sa
5 KM5J0-1-AC-S J8E130315-2-MS 05/13/2008 09:01	AmtRec: VIAL20,3XLP #Containers: 4	125.01g,in	TCSG2062 05/20/08,pd 01/10/06,r			Scr:	Alpha: -5.45E-04 uCi/Sa	Beta: 4.68E-04 uCi/Sa
6 KM5J2-1-AA J8E130315-3-SAMP 05/13/2008 12:46	AmtRec: VIAL20,3XLP #Containers: 4	125.00g,in				Scr:	Alpha: -9.01E-06 uCi/Sa	Beta: 2.03E-04 uCi/Sa
7 KM5KA-1-AC J8E130315-5-SAMP 05/13/2008 12:05	AmtRec: VIAL20,3XLP,4LP #Containers: 5	125.00g,in				Scr:	Alpha: 2.77E-03 uCi/Sa	Beta: -3.75E-04 uCi/Sa

TestAmerica

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Amended

6/5/2008 6:47:12 AM

Sample Preparation/Analysis

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

Balance Id:1120373922

Pipet #:

AnalyDueDate: 06/23/2008

Sep1 DT/Tm Tech:

Batch: 8141502 **pCi/L**
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,Barcotl

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 KNJT0-1-AA-B J8E200000-502-BLK 05/13/2008 07:45		125.00g,in AmtRec:	#Containers: 1	60		Scr:	Alpha:	Beta:
9 KNJT0-1-AC-C J8E200000-502-LCS 05/13/2008 07:45		125.01g,in AmtRec:	TCSE2221 04/11/08,pd 01/19/06,r #Containers: 1			Scr:	Alpha:	Beta:
10 KNJT0-1-AD-B J8E200000-502-BLK 05/13/2008 07:45		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

KM0HK1AC-SAMP Constituent List:
Tc-99 RDL:1.50E+01 pCi/L LCL:70 UCL:130 RPD:20
KM5J01AC-MS:

KNJT01AA-BLK:

KNJT01AC-LCS:

KNJT01AD-BLK:

KM0HK1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KM5J01AC-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TestAmerica 131 Amended

6/5/2008 6:47:13 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 06/23/2008

Batch: 8141502 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:

KNJT01AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJT01AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJT01AD-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

6/18/2008 11:19:11 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/19/2007, 6/23/2008, Batch: '8141502', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8141502						
AC		Rev1C	Barcotl	6/5/2008 6:47:33 AM		
SC			wagarr	IsBatched	5/20/2008 3:31:01 PM	ICOC_RADCALC v4.8.32
SC			Barcotl	InPrep	6/5/2008 6:47:33 AM	RICH-RC-5016 REVISION 7
SC			Barcotl	Prep1C	6/5/2008 6:47:46 AM	RICH-RC-5016 REVISION 7
SC			ManisD	Sep1C	6/11/2008 3:49:27 PM	RICH-RC-5078 REV 4
SC			DAWKINSO	InCnt1	6/11/2008 4:32:59 PM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	6/13/2008 6:13:48 AM	RICH-RD-0001 REVISION 4
SC			antonsonl	Rev1C	6/18/2008 11:18:57 AM	RICH-RC-0002 REV 8
AC			Barcotl	6/5/2008 6:47:46 AM		
AC			ManisD	6/11/2008 3:49:27 PM		
AC			DAWKINSO	6/11/2008 4:32:59 PM		
AC			BlackCL	6/13/2008 6:13:48		
AC			antonsonl	6/18/2008 11:18:57		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt:6

ICOCFractions v4.8.34

TestAmerica

6/9/2008 2:37:42 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

DH UNat_Laser PrpRC5015
SS Total Uranium by KPA
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/23/2008 W0540G

Sep1 DT/Tm Tech:

Batch: 8141498 WATER ug/L

PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: .HarrisD | Zack

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 **KM0G8-1-AC** J8E090377-1-SAMP 05/09/2008 09:18		24.90g,in AmtRec: VIAL20,2X500MLP	#Containers: 3			Scr:	Alpha: -6.59E-05 uCi/Sa	Beta: 4.57E-05 uCi/Sa
2 **KM0G8-1-AD-S** J8E090377-1-MS 05/09/2008 09:18		25.00g,in AmtRec: VIAL20,2X500MLP	unsf4233 05/22/08,pd 02/01/86,r #Containers: 3			Scr:	Alpha: -6.59E-05 uCi/Sa	Beta: 4.57E-05 uCi/Sa
3 **KM0G8-1-AE-X** J8E090377-1-DUP 05/09/2008 09:18		25.00g,in AmtRec: VIAL20,2X500MLP	#Containers: 3			Scr:	Alpha: -6.59E-05 uCi/Sa	Beta: 4.57E-05 uCi/Sa
4 **KNJTW-1-AA-B** J8E200000-498-BLK 05/09/2008 09:18		25.30g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
5 **KNJTW-1-AC-C** J8E200000-498-LCS 05/09/2008 09:18		25.30g,in AmtRec:	unsf4234 05/22/08,pd 02/01/86,r #Containers: 1			Scr:	Alpha:	Beta:
6 **KNJTW-1-AD-C** J8E200000-498-LCS 05/09/2008 09:18		25.00g,in AmtRec:	unsc2520 05/22/08,pd 02/22/05,r #Containers: 1			Scr:	Alpha:	Beta:

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Amended

TestAmerica

6/9/2008 2:37:44 PM

Sample Preparation/Analysis

DH UNat_Laser PrpRC5015
SS Total Uranium by KPA
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 06/23/2008

Sep1 DT/Tm Tech:

Batch: 8141498 ug/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	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

Comments: pH 2.0 DH 6/9/08

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

KM0G81AC-SAMP Constituent List:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
KM0G81AD-MS Constituent List:

KNJTW1AA-BLK:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
KNJTW1AC-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20
KNJTW1AD-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20

KM0G81AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KM0G81AD-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJTW1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJTW1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KNJTW1AD-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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Amended

6/18/2008 2:06:57 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/19/2007, 6/23/2008, Batch: '8141498', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus		Accepting		Comments
8141498						
AC		**Rev1C**	**HarrisD**	6/9/2008 2:34:17 PM		
SC			wagarr	IsBatched	5/20/2008 3:31:01 PM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	6/9/2008 2:34:17 PM	rich-rc-5015 rEVISION 6
SC			HarrisD	Prep1C	6/9/2008 2:37:55 PM	RICH-RC-5015 REVISION 6
SC			BockJ	InPrep2	6/12/2008 6:53:36 AM	RICH-RC-5015 REVISION 6
SC			BockJ	Prep2C	6/16/2008 9:08:28 AM	RICH-RC-5015 REVISION 6
SC			NelsonT	Cnt1C	6/17/2008 9:29:38 AM	RICH-RC-5058 REV 7
SC			nortonj	Rev1C	6/18/2008 2:06:53 PM	RICH-RC-0002 REV 8
AC			**HarrisD**	6/9/2008 2:37:55 PM		
AC			**BockJ**	6/12/2008 6:53:36		
AC			**BockJ**	6/16/2008 9:08:28		Revision 6
AC			**NelsonT**	6/17/2008 9:29:38		
AC			**nortonj**	6/18/2008 2:06:53 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 6

ICOCFractions v4.8.33