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: 39591

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05424	I08-037	B1V9R6	J8F050181-1	KPE1L1AA	9KPE1L10	8170557
		B1V9R6	J8F050181-1	KPE1L1AC	9KPE1L10	8170563
		B1V9R6	J8F050181-1	KPE1L1AD	9KPE1L10	8170553
		B1V9R6	J8F050181-1	KPE1L1AE	9KPE1L10	8170550
		B1V9R6	J8F050181-1	KPE1L1AF	9KPE1L10	8170556
		B1V9R6	J8F050181-1	KPE1L1AG	9KPE1L10	8170555
	S08-004	B1TWR9	J8F050186-1	KPE3V1AA	9KPE3V10	8170553
		B1TWR9	J8F050186-1	KPE3V2AC	9KPE3V20	8197204
		B1TX74	J8F050186-2	KPE3X1AA	9KPE3X10	8170562
		B1TX74	J8F050186-2	KPE3X1AC	9KPE3X10	8170560
		B1TX74	J8F050186-2	KPE3X1AD	9KPE3X10	8170561
		B1TX74	J8F050186-2	KPE3X1AE	9KPE3X10	8170552
		B1TX74	J8F050186-2	KPE3X1AG	9KPE3X10	8170559
		B1TX74	J8F050186-2	KPE3X1AH	9KPE3X10	8170558
	S08-005	B1V7H4	J8F050191-1	KPE4X1AA	9KPE4X10	8170550

Comments:

Report Nbr: 39591

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05424	I08-037	B1V9T3	J8F050195-1	KPE6D1AA	9KPE6D10	8170550
		B1V658	J8F050195-2	KPE6P1AA	9KPE6P10	8170563
		B1V658	J8F050195-2	KPE6P1AC	9KPE6P10	8170553
		B1V658	J8F050195-2	KPE6P1AD	9KPE6P10	8170550
		B1V658	J8F050195-2	KPE6P1AE	9KPE6P10	8170556
		B1V658	J8F050195-2	KPE6P1AF	9KPE6P10	8170555
		B1V657	J8F050195-3	KPE7T1AA	9KPE7T10	8170563
		B1V657	J8F050195-3	KPE7T1AC	9KPE7T10	8170553
		B1V657	J8F050195-3	KPE7T1AD	9KPE7T10	8170550
		B1V657	J8F050195-3	KPE7T1AG	9KPE7T10	8170555
		B1V657	J8F050195-3	KPE7T2AE	9KPE7T20	8197274
		B1V657	J8F050195-3	KPE7T2AF	9KPE7T20	8197204
	S08-005	B1V7V9	J8F050319-1	KPF2X1AA	9KPF2X10	8170553
		B1V7V9	J8F050319-1	KPF2X1AC	9KPF2X10	8170550
		B1V7V8	J8F050319-2	KPF3F1AA	9KPF3F10	8170553
		B1V7V8	J8F050319-2	KPF3F1AC	9KPF3F10	8170550
	W08-005	B1V8C6	J8F050322-1	KPF3R1AA	9KPF3R10	8170564
	I08-037	B1V695	J8F050327-1	KPF4V1AA	9KPF4V10	8170550
		B1V691	J8F050327-2	KPF461AA	9KPF4610	8170550
	S08-005	B1V7X5	J8F090190-1	KPLVT1AA	9KPLVT10	8170550
	I08-043	B1VKT9	J8F090197-1	KPLWM1AA	9KPLWM10	8170557
		B1VKT9	J8F090197-1	KPLWM1AC	9KPLWM10	8170563
		B1VKT9	J8F090197-1	KPLWM1AD	9KPLWM10	8170553
		B1VKT9	J8F090197-1	KPLWM1AE	9KPLWM10	8170550
		B1VKT9	J8F090197-1	KPLWM1A	9KPLWM10	8170555
		B1VKT9	J8F090197-1	KPLWM2AF	9KPLWM20	8197274

Comments:

Report Nbr: 39591

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05424	I08-043	B1VKV0	J8F090197-2	KPLWR1AA	9KPLWR10	8170557
		B1VKV0	J8F090197-2	KPLWR1AC	9KPLWR10	8170563
		B1VKV0	J8F090197-2	KPLWR1AD	9KPLWR10	8170553
		B1VKV0	J8F090197-2	KPLWR1AE	9KPLWR10	8170550
		B1VKV0	J8F090197-2	KPLWR1AF	9KPLWR10	8170556
		B1VKV0	J8F090197-2	KPLWR1AG	9KPLWR10	8170555
	W08-006	B1VR34	J8F100263-1	KPNCT1AA	9KPNCT10	8190389
	I08-038	B1V6C8	J8F100266-1	KPNDQ1AA	9KPNDQ10	8170550
		B1V6C9	J8F100266-2	KPND31AA	9KPND310	8170550
		B1V6C0	J8F100266-3	KPND61AA	9KPND610	8170550
	W08-006	B1VR96	J8F110338-1	KPQWR1AA	9KPQWR10	8190391

Comments:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

July 28, 2008

Attention: Steve Trent

SAF Number	:	I08-037, S08-004, S08-005, W08-005, I08-043, W08-006, I08-038
Date SDG Closed	:	June 11, 2008
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05424
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between June 4, 2008 and June 11, 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
B1V9R6	JPE1L	6/04/08	WATER
BITWR9	KPE3V	6/04/08	WATER
BITX74	KPE3X	6/04/08	WATER
B1V7H4	KPE4X	6/04/08	WATER
B1V9T3	KPE6D	6/04/08	WATER
B1V658	KPE6P	6/04/08	WATER
B1V657	KPE7T	6/04/08	WATER
B1V7V9	KPF2X	6/05/08	WATER
B1V7V8	KPF3F	6/05/08	WATER
B1V8C6	KPF3R	6/05/08	WATER
B1V695	KPF4V	6/05/08	WATER
B1V691	KPF46	6/05/08	WATER
B1V7X5	KPLVT	6/09/08	WATER

B1VKT9	KPLWM	6/09/08	WATER
B1VKV0	KPLWR	6/09/08	WATER
B1VR34	KPNCT	6/10/08	WATER
B1V6C8	KPNDQ	6/10/08	WATER
B1V6C9	KPND3	6/10/08	WATER
B1V6C0	KPND6	6/10/08	WATER
B1VR96	KPQWR	6/11/08	WATER

II. Sample Receipt

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

III. Analytical Results/Methodology

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

The requested analyses were:

Alpha Spectroscopy
Uranium 234, 235 and 238 by method RICH-RC-5039
Neptunium-237 by method RICH-RC-5009
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
Iodine-129 by method RICH-RC-5025
Liquid Scintillation Counting
Selenium-79 by method RICH-RC-5043
Technetium-99 by TEVA method RICH-RC-5065
Tritium by method RICH-RC-5007
Carbon-14 by method RICH-RC-5022
Laser Induced Phosphorimetry
Total Uranium by method RICH-RC-5058
Chemical Analysis
Total Coliform by method 9223

IV. Quality Control

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

QC and sample results are reported in the same units.

V. Comments

Alpha Spectroscopy

Uranium 234, 235 and 238 by method RICH-RC-5039:
The LCS, batch blank, sample and sample duplicate (B1V657) results are within contractual requirements.

Neptunium-237 by method RICH-RC-5009:
The LCS, batch blank, sample and sample duplicate (B1VKV0) results are within contractual requirements.

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:
Samples B1TX74 and B1TX74 DUP were analyzed with reduced aliquots based on weight screens. Except as noted, the LCS, batch blank, samples and sample duplicate (B1TX74) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:
The LCS, batch blank, samples and sample duplicate (B1TX74) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006
The samples were traced with an incorrect tracer. The samples were reanalyzed. Except as noted, the LCS, batch blank, samples and sample duplicate (B1V657) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec (LL) by method RICH-RC-5017:
There was insufficient volume for a duplicate. Sample B1V7V9 was recounted on a different detector for the duplicate (B1V7V9 DUP). Except as noted, the LCS, batch blank, samples and sample duplicate (B1V7V9) results are within contractual requirements.

Iodine-129 (LL) by method RICH-RC-5025:
The LCS, batch blank, samples and sample duplicate (B1V6C8) results are within contractual requirements.

Iodine-129 by method RICH-RC-5025:
The LCS, batch blank, samples and sample duplicate (B1TX74) results are within contractual requirements.

Fluor Hanford
July 28, 2008

Liquid Scintillation Counting

Selenium-79 by method RICH-RC-5043:

Samples B1V657 and B1VKT9 were reanalyzed due to low tracer yields. There is no LCS for selenium-79. Except as noted, the batch blank, samples and sample duplicate (B1VKT9) results are within contractual requirements.

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

The LCS, batch blank, samples, sample duplicate (B1TX74), and sample matrix spike (B1TX74) results are within contractual requirements.

Tritium by method RICH-RC-5007:

The LCS, batch blank, samples and sample duplicate (B1TX74) results are within contractual requirements.

Carbon-14 by method RICH-RC-5022:

The LCS, batch blank, samples and sample duplicate (B1V658) results are within contractual requirements.

Total Uranium

Total Uranium by method RICH-RC-5058:

The LCS, batch blank, samples, sample duplicate (B1TX74), and sample matrix spike (B1TX74) results are within contractual requirements.

Chemical Analysis

Total Coliform by method 9223

Batch: 8170564

The LCS, batch blank, sample and sample duplicate (B1V8C6) results are within contractual requirements.

Batch: 8190389

The LCS, batch blank, sample and sample duplicate (B1VR34) results are within contractual requirements.

Batch: 8190391

The LCS, batch blank, sample and sample duplicate (B1VR96) results are within contractual requirements.

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

Reviewed and approved:

Sandra Seger
Project Manager

Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	**Isotope(s)**	**TestAmerica Richland's SOP No.**
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 00-02	Gross Alpha (Coprecipitation)	RICH-RC-5021
EPA 903.0	Total Alpha Radium (Ra-226)	RICH-RC-5027
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr-89/90	RICH-RC-5006
ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007

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

Uncertainty Estimation

TestAmerica Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, R = constants * f(x,y,z,...). The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

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

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

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or TestAmerica.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) *u_c - Combined Uncertainty.*	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, *u_c the combined uncertainty*. The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or TestAmerica "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. Lc=(1.645 * Sqrt(2*(BkgrndCnt/BkgrndCntMin)/SCntMin)) * (ConvFct/(Eff*Yld*Abn*Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC|MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. MDC = (4.65 * Sqrt((BkgrndCnt/BkgrndCntMin)/SCntMin) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the **Work Order** Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt($TPUs^2$ + $TPUd^2$)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by TestAmerica upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

TESTAMERICA

7/28/2008 2:55:59 PM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 39591 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.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:
9KPE1L10	B1V9R6		MW6-SBB-A1	I08-037	W05424					06/04/2008 09:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8170563	C-14	14762-75-5	1.86E+00	pCi/L	3.6E+00	4.3E+00	U	8.49E+00	100.0	C14_LSC	2.00E-01	L	06/24/2008 03:58	I
8170553	BE-7	13966-02-4	-2.90E+00	pCi/L	1.6E+01	1.6E+01	U	2.74E+01		GAMMALL_GS	2.0004E+00	L	07/02/2008 13:34	I
8170553	CO-60	10198-40-0	-4.57E-02	pCi/L	1.7E+00	1.7E+00	U	3.14E+00		GAMMALL_GS	2.0004E+00	L	07/02/2008 13:34	I
8170553	CS-134	13967-70-9	1.14E+00	pCi/L	1.7E+00	1.7E+00	U	3.15E+00		GAMMALL_GS	2.0004E+00	L	07/02/2008 13:34	I
8170553	CS-137	10045-97-3	-3.64E-01	pCi/L	1.6E+00	1.6E+00	U	2.76E+00		GAMMALL_GS	2.0004E+00	L	07/02/2008 13:34	I
8170553	EU-152	14683-23-9	4.34E-01	pCi/L	4.4E+00	4.4E+00	U	7.58E+00		GAMMALL_GS	2.0004E+00	L	07/02/2008 13:34	I
8170553	EU-154	15585-10-1	-4.64E+00	pCi/L	5.0E+00	5.0E+00	U	7.99E+00		GAMMALL_GS	2.0004E+00	L	07/02/2008 13:34	I
8170553	EU-155	14391-16-3	2.93E+00	pCi/L	4.3E+00	4.3E+00	U	7.54E+00		GAMMALL_GS	2.0004E+00	L	07/02/2008 13:34	I
8170553	K-40	13966-00-2	-4.92E+01	pCi/L	4.9E+01	4.9E+01	U	1.01E+02		GAMMALL_GS	2.0004E+00	L	07/02/2008 13:34	I
8170553	RU-106	13967-48-1	-2.45E+00	pCi/L	1.4E+01	1.4E+01	U	2.43E+01		GAMMALL_GS	2.0004E+00	L	07/02/2008 13:34	I
8170553	SB-125	14234-35-6	1.21E+00	pCi/L	3.9E+00	3.9E+00	U	6.97E+00		GAMMALL_GS	2.0004E+00	L	07/02/2008 13:34	I
8170550	I-129L	15046-84-1	9.82E+00	pCi/L	1.2E+00	1.2E+00		4.08E-01	98.1	I129LL_SEP_LEPS	3.8813E+00	L	07/16/2008 21:48	I
8170557	NP-237	13994-20-2	2.68E-02	pCi/L	9.3E-02	9.3E-02	U	2.53E-01	89.7	NP237_LLE_PLAT	2.001E-01	L	06/26/2008 20:09	I
8170556	Se-79	15758-45-9	5.16E+00	pCi/L	4.3E+00	8.5E+00	U	1.01E+01	86.3	SE79_SEP_IE_LS	2.003E-01	L	07/03/2008 23:32	I
8170555	U-234	13966-29-5	1.15E+00	pCi/L	3.9E-01	4.3E-01		1.57E-01	90.1	UISO_PLATE_AEA	2.0005E-01	L	06/26/2008 19:44	I
8170555	U-235	15117-96-1	1.96E-02	pCi/L	6.8E-02	6.8E-02	U	1.85E-01	90.1	UISO_PLATE_AEA	2.0005E-01	L	06/26/2008 19:44	I
8170555	U-238	U-238	5.11E-01	pCi/L	2.6E-01	2.8E-01		1.85E-01	90.1	UISO_PLATE_AEA	2.0005E-01	L	06/26/2008 19:44	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:
9KPE3V10	B1TWR9		MW6-SBB-A1	S08-004	W05424					06/04/2008 12:40

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8170553	BE-7	13966-02-4	-3.23E+00	pCi/L	1.6E+01	1.6E+01	U	2.70E+01		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:35	I
8170553	CO-60	10198-40-0	-2.87E-01	pCi/L	2.1E+00	2.1E+00	U	3.83E+00		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:35	I
8170553	CS-134	13967-70-9	5.11E-01	pCi/L	2.0E+00	2.0E+00	U	3.67E+00		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:35	I
8170553	CS-137	10045-97-3	3.63E-01	pCi/L	1.8E+00	1.8E+00	U	3.23E+00		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:35	I
8170553	EU-152	14683-23-9	3.09E+00	pCi/L	3.4E+00	3.4E+00	U	6.50E+00		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:35	I
8170553	EU-154	15585-10-1	-4.38E+00	pCi/L	5.7E+00	5.7E+00	U	9.22E+00		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:35	I
8170553	EU-155	14391-16-3	-2.60E-01	pCi/L	2.7E+00	2.7E+00	U	4.76E+00		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:35	I
8170553	K-40	13966-00-2	1.84E+01	pCi/L	3.9E+01	3.9E+01	U	7.98E+01		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:35	I
8170553	RU-106	13967-48-1	2.07E+00	pCi/L	1.6E+01	1.6E+01	U	2.78E+01		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:35	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.

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8170553	SB-125	14234-35-6	-7.19E-01	pCi/L	4.0E+00	4.0E+00	U	7.09E+00		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:35 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:
9KPE3V20	B1TWR9		MW6-SBB-A1	S08-004	W05424					06/04/2008 12:40

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8197204	SR-90	10098-97-2	2.61E-01	pCi/L	3.3E-01	3.3E-01	U	6.85E-01	77.9	SRISO_SEP_PRE	1.0004E+00	L	07/26/2008 07:00	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:
9KPE3X10	B1TX74		MW6-SBB-A1	S08-004	W05424					06/04/2008 12:40

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8170562	H-3	10028-17-8	7.78E+01	pCi/L	1.1E+02	1.2E+02	U	2.49E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/21/2008 06:21	I
8170560	ALPHA	12587-46-1	1.88E+00	pCi/L	1.3E+00	1.3E+00		1.50E+00	100.0	9310_ALPHABETA	1.725E-01	L	07/07/2008 14:14	I
8170561	BETA	12587-47-2	7.86E+00	pCi/L	1.9E+00	2.1E+00		2.99E+00	100.0	9310_ALPHABETA	2.002E-01	L	07/07/2008 16:32	I
8170552	I-129L	15046-84-1	-4.05E-01	pCi/L	1.0E+00	1.0E+00	U	1.80E+00	95.1	I129_SEP_LEPS_G	5.001E-01	L	07/14/2008 17:28	I
8170559	TC-99	14133-76-7	5.24E+00	pCi/L	4.1E+00	5.8E+00	U	9.56E+00	100.0	TC99_ETVDSK_LS	1.253E-01	L	06/25/2008 22:34	I
8170558	Uranium	7440-61-1	2.92E+00	ug/L	3.0E-01	3.0E-01		8.35E-02		UTOT_KPA	2.51E-02	ML	07/21/2008 10:18	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KPE4X10	B1V7H4		MW6-SBB-A1	S08-005	W05424					06/04/2008 10:33

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8170550	I-129L	15046-84-1	1.70E-01	pCi/L	1.8E-01	1.8E-01	U	3.15E-01	95.7	I129LL_SEP_LEPS	3.8892E+00	L	07/16/2008 21:50	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:
9KPE6D10	B1V9T3		MW6-SBB-A1	I08-037	W05424					06/04/2008 12:49

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8170550	I-129L	15046-84-1	9.39E-01	pCi/L	2.9E-01	2.9E-01	U	5.20E-01	93.5	I129LL_SEP_LEPS	3.9021E+00	L	07/16/2008 21:51	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:
9KPE6P10	B1V658		MW6-SBB-A1	I08-037	W05424					06/04/2008 08:25

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8170563	C-14	14762-75-5	-3.67E-01	pCi/L	3.5E+00	4.2E+00	U	8.49E+00	100.0	C14_LSC	2.00E-01	L	06/24/2008 04:40	I
8170553	BE-7	13966-02-4	-2.37E+00	pCi/L	1.3E+01	1.3E+01	U	2.28E+01		GAMMALL_GS	2.0001E+00	L	07/02/2008 13:36	I
8170553	CO-60	10198-40-0	1.43E+00	pCi/L	1.7E+00	1.7E+00	U	3.54E+00		GAMMALL_GS	2.0001E+00	L	07/02/2008 13:36	I
8170553	CS-134	13967-70-9	5.27E-01	pCi/L	1.7E+00	1.7E+00	U	3.13E+00		GAMMALL_GS	2.0001E+00	L	07/02/2008 13:36	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.

8170553	CS-137	10045-97-3	-1.76E-02	pCi/L	1.3E+00	1.3E+00	U	2.40E+00		GAMMALL_GS	2.0001E+00	L	07/02/2008	13:36	I
8170553	EU-152	14683-23-9	-7.91E-01	pCi/L	3.5E+00	3.5E+00	U	6.21E+00		GAMMALL_GS	2.0001E+00	L	07/02/2008	13:36	I
8170553	EU-154	15585-10-1	7.43E-01	pCi/L	4.0E+00	4.0E+00	U	7.85E+00		GAMMALL_GS	2.0001E+00	L	07/02/2008	13:36	I
8170553	EU-155	14391-16-3	3.51E-01	pCi/L	2.7E+00	2.7E+00	U	4.64E+00		GAMMALL_GS	2.0001E+00	L	07/02/2008	13:36	I
8170553	K-40	13966-00-2	9.16E+00	pCi/L	2.1E+01	2.1E+01	U	4.32E+01		GAMMALL_GS	2.0001E+00	L	07/02/2008	13:36	I
8170553	RU-106	13967-48-1	-9.27E+00	pCi/L	1.3E+01	1.3E+01	U	2.15E+01		GAMMALL_GS	2.0001E+00	L	07/02/2008	13:36	I
8170553	SB-125	14234-35-6	1.85E+00	pCi/L	3.3E+00	3.3E+00	U	6.19E+00		GAMMALL_GS	2.0001E+00	L	07/02/2008	13:36	I
8170550	I-129L	15046-84-1	-7.41E-02	pCi/L	1.3E-01	1.3E-01	U	2.33E-01	96.5	I129LL_SEP_LEPS	3.9022E+00	L	07/17/2008	05:23	I
8170556	Se-79	15758-45-9	3.73E+00	pCi/L	5.1E+00	9.9E+00	U	1.21E+01	72.0	SE79_SEP_IE_LS	2.002E-01	L	07/04/2008	00:25	I
8170555	U-234	13966-29-5	1.44E-01	pCi/L	1.4E-01	1.4E-01	U	1.77E-01	108.3	UISO_PLATE_AEA	2.00E-01	L	06/26/2008	19:44	I
8170555	U-235	15117-96-1	3.13E-02	pCi/L	6.4E-02	6.4E-02	U	1.50E-01	108.3	UISO_PLATE_AEA	2.00E-01	L	06/26/2008	19:44	I
8170555	U-238	U-238	8.13E-02	pCi/L	1.1E-01	1.1E-01	U	1.77E-01	108.3	UISO_PLATE_AEA	2.00E-01	L	06/26/2008	19:44	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:
9KPE7T10	B1V657		MW6-SBB-A1	I08-037	W05424					06/04/2008 11:07

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
8170563	C-14	14762-75-5	-2.15E+00	pCi/L	3.4E+00	4.2E+00	U	8.49E+00	100.0	C14_LSC	2.00E-01	L	06/24/2008	06:05	I
8170553	BE-7	13966-02-4	6.77E-01	pCi/L	1.3E+01	1.3E+01	U	2.29E+01		GAMMALL_GS	2.0001E+00	L	07/02/2008	13:36	I
8170553	CO-60	10198-40-0	6.08E-01	pCi/L	1.3E+00	1.3E+00	U	2.54E+00		GAMMALL_GS	2.0001E+00	L	07/02/2008	13:36	I
8170553	CS-134	13967-70-9	1.19E-01	pCi/L	1.3E+00	1.3E+00	U	2.43E+00		GAMMALL_GS	2.0001E+00	L	07/02/2008	13:36	I
8170553	CS-137	10045-97-3	-8.60E-01	pCi/L	1.3E+00	1.3E+00	U	2.22E+00		GAMMALL_GS	2.0001E+00	L	07/02/2008	13:36	I
8170553	EU-152	14683-23-9	-3.12E-01	pCi/L	3.5E+00	3.5E+00	U	6.04E+00		GAMMALL_GS	2.0001E+00	L	07/02/2008	13:36	I
8170553	EU-154	15585-10-1	1.52E+00	pCi/L	3.9E+00	3.9E+00	U	7.47E+00		GAMMALL_GS	2.0001E+00	L	07/02/2008	13:36	I
8170553	EU-155	14391-16-3	-1.76E-01	pCi/L	3.0E+00	3.0E+00	U	5.27E+00		GAMMALL_GS	2.0001E+00	L	07/02/2008	13:36	I
8170553	K-40	13966-00-2	9.48E+00	pCi/L	2.0E+01	2.0E+01	U	2.22E+01		GAMMALL_GS	2.0001E+00	L	07/02/2008	13:36	I
8170553	RU-106	13967-48-1	-6.98E+00	pCi/L	1.4E+01	1.4E+01	U	2.32E+01		GAMMALL_GS	2.0001E+00	L	07/02/2008	13:36	I
8170553	SB-125	14234-35-6	3.66E-01	pCi/L	3.4E+00	3.4E+00	U	5.96E+00		GAMMALL_GS	2.0001E+00	L	07/02/2008	13:36	I
8170550	I-129L	15046-84-1	4.96E-01	pCi/L	4.1E-01	4.1E-01	U	4.49E-01	94.6	I129LL_SEP_LEPS	3.8725E+00	L	07/17/2008	05:24	I
8170555	U-234	13966-29-5	1.24E+01	pCi/L	1.2E+00	2.3E+00		2.68E-01	103.5	UISO_PLATE_AEA	2.0002E-01	L	06/26/2008	19:44	I
8170555	U-235	15117-96-1	5.45E-01	pCi/L	2.6E-01	2.8E-01		2.06E-01	103.5	UISO_PLATE_AEA	2.0002E-01	L	06/26/2008	19:44	I
8170555	U-238	U-238	1.13E+01	pCi/L	1.2E+00	2.2E+00		2.78E-01	103.5	UISO_PLATE_AEA	2.0002E-01	L	06/26/2008	19:44	I

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

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

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 39591 File Name: h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

9KPE7T20 B1V657 MW6-SBB-A1 I08-037 W05424 06/04/2008 11:07

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8197274	Se-79	15758-45-9	-5.45E-01	pCi/L	5.7E+00	1.1E+01	U	1.37E+01	64.7	SE79_SEP_IE_LS	2.004E-01	L	07/25/2008 14:03	I
8197204	SR-90	10098-97-2	6.75E-02	pCi/L	2.2E-01	2.2E-01	U	4.80E-01	75.7	SRISO_SEP_PRE	1.0003E+00	L	07/26/2008 07:00	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:
9KPF2X10	B1V7V9		MW6-SBB-A1	S08-005	W05424					06/05/2008 07:50

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8170553	BE-7	13966-02-4	-4.36E+00	pCi/L	1.7E+01	1.7E+01	U	3.00E+01		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:37	I
8170553	CO-60	10198-40-0	-1.99E+00	pCi/L	1.9E+00	1.9E+00	U	2.80E+00		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:37	I
8170553	CS-134	13967-70-9	-1.02E+00	pCi/L	1.7E+00	1.7E+00	U	2.79E+00		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:37	I
8170553	CS-137	10045-97-3	-8.74E-01	pCi/L	1.6E+00	1.6E+00	U	2.79E+00		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:37	I
8170553	EU-152	14683-23-9	-9.81E-01	pCi/L	4.2E+00	4.2E+00	U	7.25E+00		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:37	I
8170553	EU-154	15585-10-1	-3.92E+00	pCi/L	4.9E+00	4.9E+00	U	7.86E+00		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:37	I
8170553	EU-155	14391-16-3	1.43E+00	pCi/L	3.1E+00	3.1E+00	U	5.50E+00		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:37	I
8170553	K-40	13966-00-2	-7.98E+01	pCi/L	3.7E+01	3.7E+01	U	6.57E+01		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:37	I
8170553	RU-106	13967-48-1	8.49E+00	pCi/L	1.5E+01	1.5E+01	U	2.81E+01		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:37	I
8170553	SB-125	14234-35-6	2.53E+00	pCi/L	4.0E+00	4.0E+00	U	7.50E+00		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:37	I
8170550	I-129L	15046-84-1	7.99E-02	pCi/L	1.6E-01	1.6E-01	U	3.21E-01	75.7	I129LL_SEP_LEPS	3.8768E+00	L	07/17/2008 05:24	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:
9KPF3F10	B1V7V8		MW6-SBB-A1	S08-005	W05424					06/05/2008 11:14

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8170553	BE-7	13966-02-4	8.89E+00	pCi/L	2.3E+01	2.3E+01	U	4.06E+01		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:37	I
8170553	CO-60	10198-40-0	2.80E+00	pCi/L	2.6E+00	2.6E+00	U	5.11E+00		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:37	I
8170553	CS-134	13967-70-9	4.42E-01	pCi/L	2.3E+00	2.3E+00	U	4.09E+00		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:37	I
8170553	CS-137	10045-97-3	1.07E+00	pCi/L	2.2E+00	2.2E+00	U	4.00E+00		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:37	I
8170553	EU-152	14683-23-9	5.42E+00	pCi/L	5.6E+00	5.6E+00	U	1.01E+01		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:37	I
8170553	EU-154	15585-10-1	-1.29E+00	pCi/L	6.1E+00	6.1E+00	U	1.08E+01		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:37	I
8170553	EU-155	14391-16-3	-4.02E-01	pCi/L	4.0E+00	4.0E+00	U	6.82E+00		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:37	I
8170553	K-40	13966-00-2	-3.94E+01	pCi/L	5.1E+01	5.1E+01	U	1.02E+02		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:37	I
8170553	RU-106	13967-48-1	1.46E+01	pCi/L	1.9E+01	1.9E+01	U	3.50E+01		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:37	I
8170553	SB-125	14234-35-6	8.87E-01	pCi/L	5.3E+00	5.3E+00	U	9.35E+00		GAMMALL_GS	2.0002E+00	L	07/02/2008 13:37	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.

8170550	I-129L	15046-84-1	3.99E+00	pCi/L	6.2E-01	6.2E-01		3.40E-01	90.3	I129LL_SEP_LEPS	3.8702E+00	L	07/17/2008 07:07	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KPF4610	B1V691		MW6-SBB-A1	I08-037	W05424					06/05/2008 09:44

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8170550	I-129L	15046-84-1	7.78E-01	pCi/L	2.4E-01	2.4E-01	U	5.09E-01	94.9	I129LL_SEP_LEPS	3.882E+00	L	07/17/2008 07:08	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:
9KPF4V10	B1V695		MW6-SBB-A1	I08-037	W05424					06/05/2008 10:29

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8170550	I-129L	15046-84-1	2.33E-01	pCi/L	2.1E-01	2.1E-01	U	3.58E-01	95.7	I129LL_SEP_LEPS	3.895E+00	L	07/17/2008 07:08	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:
9KPLVT10	B1V7X5		MW6-SBB-A1	S08-005	W05424					06/05/2008 10:56

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8170550	I-129L	15046-84-1	5.96E-02	pCi/L	1.6E-01	1.6E-01	U	3.04E-01	89.2	I129LL_SEP_LEPS	3.8508E+00	L	07/17/2008 08:54	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KPLWM10	B1VKT9		MW6-SBB-A1	I08-043	W05424					06/09/2008 10:18

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8170563	C-14	14762-75-5	1.67E+00	pCi/L	3.6E+00	4.3E+00	U	8.49E+00	100.0	C14_LSC	2.00E-01	L	06/24/2008 06:48	I
8170553	BE-7	13966-02-4	5.52E-01	pCi/L	9.4E+00	9.4E+00	U	1.69E+01		GAMMALL_GS	2.0004E+00	L	07/02/2008 13:38	I
8170553	CO-60	10198-40-0	-2.49E-01	pCi/L	1.2E+00	1.2E+00	U	2.25E+00		GAMMALL_GS	2.0004E+00	L	07/02/2008 13:38	I
8170553	CS-134	13967-70-9	9.42E-02	pCi/L	1.1E+00	1.1E+00	U	2.03E+00		GAMMALL_GS	2.0004E+00	L	07/02/2008 13:38	I
8170553	CS-137	10045-97-3	1.83E+00	pCi/L	1.1E+00	1.1E+00	U	2.30E+00		GAMMALL_GS	2.0004E+00	L	07/02/2008 13:38	I
8170553	EU-152	14683-23-9	2.87E+00	pCi/L	2.7E+00	2.7E+00	U	5.11E+00		GAMMALL_GS	2.0004E+00	L	07/02/2008 13:38	I
8170553	EU-154	15585-10-1	-2.51E+00	pCi/L	3.3E+00	3.3E+00	U	5.39E+00		GAMMALL_GS	2.0004E+00	L	07/02/2008 13:38	I
8170553	EU-155	14391-16-3	-6.28E-01	pCi/L	2.3E+00	2.3E+00	U	3.98E+00		GAMMALL_GS	2.0004E+00	L	07/02/2008 13:38	I
8170553	K-40	13966-00-2	8.14E-01	pCi/L	2.3E+01	2.3E+01	U	4.85E+01		GAMMALL_GS	2.0004E+00	L	07/02/2008 13:38	I
8170553	RU-106	13967-48-1	-8.76E-01	pCi/L	8.7E+00	8.7E+00	U	1.56E+01		GAMMALL_GS	2.0004E+00	L	07/02/2008 13:38	I
8170553	SB-125	14234-35-6	-1.84E+00	pCi/L	2.4E+00	2.4E+00	U	4.03E+00		GAMMALL_GS	2.0004E+00	L	07/02/2008 13:38	I
8170550	I-129L	15046-84-1	1.27E-01	pCi/L	1.5E-01	1.5E-01	U	3.06E-01	88.9	I129LL_SEP_LEPS	3.8995E+00	L	07/17/2008 08:55	I
8170557	NP-237	13994-20-2	-1.66E-02	pCi/L	8.6E-02	8.6E-02	U	2.34E-01	92.6	NP237_LLE_PLAT	2.002E-01	L	06/26/2008 20:09	I
8170555	U-234	13966-29-5	3.16E-01	pCi/L	2.0E-01	2.1E-01		1.54E-01	89.9	UISO_PLATE_AEA	2.0004E-01	L	06/26/2008 19:44	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.

8170555	U-235	15117-96-1	0.00E+00	pCi/L	6.6E-02	6.6E-02	U	1.54E-01	89.9	UISO_PLATE_AEA	2.0004E-01	L	06/26/2008	19:44 I
8170555	U-238	U-238	3.87E-01	pCi/L	2.2E-01	2.3E-01		1.54E-01	89.9	UISO_PLATE_AEA	2.0004E-01	L	06/26/2008	19:44 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:
9KPLWM20	B1VKT9		MW6-SBB-A1	I08-043	W05424					06/09/2008 10:18

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8197274	Se-79	15758-45-9	1.07E+00	pCi/L	3.9E+00	7.7E+00	U	9.47E+00	94.1	SE79_SEP_IE_LS	2.001E-01	L	07/25/2008 14:56	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9KPLWR10	B1VKV0		MW6-SBB-A1	I08-043	W05424					06/09/2008 10:18

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8170563	C-14	14762-75-5	1.11E+00	pCi/L	3.5E+00	4.3E+00	U	8.49E+00	100.0	C14_LSC	2.00E-01	L	06/24/2008 07:30	I
8170553	BE-7	13966-02-4	-6.64E+00	pCi/L	1.5E+01	1.5E+01	U	2.47E+01		GAMMALL_GS	2.0003E+00	L	07/02/2008 13:39	I
8170553	CO-60	10198-40-0	7.92E-01	pCi/L	1.5E+00	1.5E+00	U	3.15E+00		GAMMALL_GS	2.0003E+00	L	07/02/2008 13:39	I
8170553	CS-134	13967-70-9	1.93E-02	pCi/L	1.7E+00	1.7E+00	U	3.14E+00		GAMMALL_GS	2.0003E+00	L	07/02/2008 13:39	I
8170553	CS-137	10045-97-3	-4.15E-02	pCi/L	1.6E+00	1.6E+00	U	2.87E+00		GAMMALL_GS	2.0003E+00	L	07/02/2008 13:39	I
8170553	EU-152	14683-23-9	-6.74E-01	pCi/L	4.3E+00	4.3E+00	U	7.55E+00		GAMMALL_GS	2.0003E+00	L	07/02/2008 13:39	I
8170553	EU-154	15585-10-1	1.15E+00	pCi/L	4.7E+00	4.7E+00	U	9.08E+00		GAMMALL_GS	2.0003E+00	L	07/02/2008 13:39	I
8170553	EU-155	14391-16-3	9.85E-01	pCi/L	3.1E+00	3.1E+00	U	5.48E+00		GAMMALL_GS	2.0003E+00	L	07/02/2008 13:39	I
8170553	K-40	13966-00-2	-5.84E+00	pCi/L	3.4E+01	3.4E+01	U	7.00E+01		GAMMALL_GS	2.0003E+00	L	07/02/2008 13:39	I
8170553	RU-106	13967-48-1	-2.29E+01	pCi/L	1.6E+01	1.6E+01	U	2.36E+01		GAMMALL_GS	2.0003E+00	L	07/02/2008 13:39	I
8170553	SB-125	14234-35-6	2.45E+00	pCi/L	3.8E+00	3.8E+00	U	7.06E+00		GAMMALL_GS	2.0003E+00	L	07/02/2008 13:39	I
8170550	I-129L	15046-84-1	-2.97E-03	pCi/L	1.2E-01	1.2E-01	U	2.28E-01	96.2	I129LL_SEP_LEPS	3.8915E+00	L	07/17/2008 08:56	I
8170557	NP-237	13994-20-2	-7.45E-03	pCi/L	7.6E-02	7.6E-02	U	1.78E-01	87.1	NP237_LLE_PLAT	2.00E-01	L	06/26/2008 20:09	I
8170556	Se-79	15758-45-9	4.26E+00	pCi/L	1.3E+01	2.5E+01	U	3.07E+01	28.4	SE79_SEP_IE_LS	2.003E-01	L	07/04/2008 03:57	I
8170555	U-234	13966-29-5	4.69E-01	pCi/L	2.6E-01	2.8E-01		1.75E-01	81.6	UISO_PLATE_AEA	2.0002E-01	L	06/26/2008 19:44	I
8170555	U-235	15117-96-1	3.66E-02	pCi/L	7.5E-02	7.5E-02	U	1.75E-01	81.6	UISO_PLATE_AEA	2.0002E-01	L	06/26/2008 19:44	I
8170555	U-238	U-238	3.96E-01	pCi/L	2.4E-01	2.5E-01		1.75E-01	81.6	UISO_PLATE_AEA	2.0002E-01	L	06/26/2008 19:44	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:
9KPND310	B1V6C9		MW6-SBB-A1	I08-038	W05424					06/09/2008 10:24

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8170550	I-129L	15046-84-1	1.47E+00	pCi/L	3.7E-01	3.7E-01	U	6.71E-01	82.7	I129LL_SEP_LEPS	3.8437E+00	L	07/17/2008 10:41	I

TestAmerica Report

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 39591 File Name: h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.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:
9KPND610	B1V6C0		MW6-SBB-A1	I08-038	W05424					06/09/2008 12:26

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8170550	I-129L	15046-84-1	2.93E-01	pCi/L	1.8E-01	1.8E-01	U	3.68E-01	93.5	I129LL_SEP_LEPS	3.8712E+00	L	07/17/2008 12:26	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:
9KPNDQ10	B1V6C8		MW6-SBB-A1	I08-038	W05424					06/09/2008 10:24

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8170550	I-129L	15046-84-1	1.44E+00	pCi/L	4.4E-01	4.4E-01	U	6.12E-01	97.8	I129LL_SEP_LEPS	3.9116E+00	L	07/17/2008 10:39	I

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

TESTAMERICA

Monday, July 28, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KP6501AB	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 11:07
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**BLK**		**Received Date:** 06/04/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8170555	U-234	-1.26E-02	pCi/L	6.6E-02	U	1.78E-01	99.3		UISO_PLATE_	2.0001E-01	06/26/2008				D
BLK	13966-29-5			6.6E-02						L	19:45				
8170555	U-235	-6.31E-03	pCi/L	6.4E-02	U	1.51E-01	99.3		UISO_PLATE_	2.0001E-01	06/26/2008				D
BLK	15117-96-1			6.4E-02						L	19:45				
8170555	U-238	0.00E+00	pCi/L	6.4E-02	U	1.51E-01	99.3		UISO_PLATE_	2.0001E-01	06/26/2008				D
BLK	U-238			6.4E-02						L	19:45				

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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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TESTAMERICA

Monday, July 28, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KP6511AB	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/09/2008 10:18
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**BLK**		**Received Date:** 06/09/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
8170556	Se-79	1.00E+01	pCi/L	9.8E+00	U	1.13E+01	77.4		SE79_SEP_IE	2.001E-01	07/04/2008				D
BLK	15758-45-9			5.0E+00						L	04:50				

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TESTAMERICA

Monday, July 28, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KP6521AB	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/09/2008 10:18
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 06/09/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
8170557	NP-237	3.63E-02	pCi/L	1.3E-01	U	3.42E-01	80.1		NP237_LLE_P	2.00E-01	06/26/2008				D
BLK	13994-20-2			1.3E-01						L	20:11				

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Monday, July 28, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KP6531AB	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 12:40
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 06/04/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8170558	Uranium	0.00E+00	ug/L	0.0E+00	U	8.25E-02			UTOT_KPA	2.54E-02	07/21/2008				D
BLK	7440-61-1			0.0E+00						ML	10:11				

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Monday, July 28, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KP6541AB	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 12:40
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 06/04/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8170559	TC-99	3.63E+00	pCi/L	5.8E+00	U	9.57E+00	100.0		TC99_ETVDSK	1.253E-01	06/25/2008				D
BLK	14133-76-7			4.1E+00						L	22:34				

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

Monday, July 28, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KP6551AB	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 12:40
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 06/04/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8170560	ALPHA	-5.18E-02	pCi/L	2.1E-01	U	6.22E-01	100.0		9310_ALPHAB	2.003E-01	07/07/2008				D
BLK	12587-46-1			2.1E-01						L	14:14				

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

TESTAMERICA

Monday, July 28, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KP6561AB	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 12:40
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 06/04/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8170561	BETA	1.06E+00	pCi/L	1.5E+00	U	3.23E+00	100.0		9310_ALPHAB	2.003E-01	07/07/2008				D
BLK	12587-47-2			1.5E+00						L	16:32				

23

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

TESTAMERICA

Monday, July 28, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KP6571AB	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 12:40
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 06/04/2008

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
8170562	H-3	1.58E+01	pCi/L	1.2E+02	U	2.53E+02	100.0		906.0_H3_LSC	5.00E-03	06/21/2008				D
BLK	10028-17-8			1.0E+02						L	00:53				

24

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

TESTAMERICA

Monday, July 28, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KP6571DX	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 12:40
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 06/04/2008

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
8170562	H-3	3.84E+01	pCi/L	1.2E+02	U	2.63E+02	100.0		906.0_H3_LSC	5.00E-03	06/21/2008				D
BLK	10028-17-8			1.1E+02						L	03:37				

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Monday, July 28, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KP6581AB	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 08:25
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 06/04/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8170563	C-14	-3.08E+00	pCi/L	4.1E+00	U	8.49E+00	100.0		C14_LSC	2.00E-01	06/24/2008				D
BLK	14762-75-5			3.4E+00						L	02:32				

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

Monday, July 28, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KP65R1AB	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/09/2008 10:24
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 06/10/2008

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
8170550	I-129L	-3.09E-02	pCi/L	1.2E-01	U	2.16E-01	94.3		I129LL_SEP_L	3.9911E+00	07/17/2008				D
BLK	15046-84-1			1.2E-01						L	12:27				

27

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

Monday, July 28, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KP65V1AB	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 12:40
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 06/04/2008

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
8170552	I-129L	5.63E-01	pCi/L	1.1E+00	U	2.07E+00	95.7		I129_SEP_LEP	5.002E-01	07/14/2008				D
BLK	15046-84-1			1.1E+00						L	17:28				

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TESTAMERICA

Monday, July 28, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KP65W1AB	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/05/2008 07:50
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 06/05/2008

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
8170553	BE-7	-4.53E+00	pCi/L	1.7E+01	U	3.00E+01			GAMMALL_GS	2.0001E+00	07/02/2008				D
BLK	13966-02-4			1.7E+01						L	13:40				
8170553	CO-60	1.57E-01	pCi/L	1.9E+00	U	3.59E+00			GAMMALL_GS	2.0001E+00	07/02/2008				D
BLK	10198-40-0			1.9E+00						L	13:40				
8170553	CS-134	-1.37E+00	pCi/L	1.7E+00	U	2.79E+00			GAMMALL_GS	2.0001E+00	07/02/2008				D
BLK	13967-70-9			1.7E+00						L	13:40				
8170553	CS-137	1.59E-01	pCi/L	1.8E+00	U	3.25E+00			GAMMALL_GS	2.0001E+00	07/02/2008				D
BLK	10045-97-3			1.8E+00						L	13:40				
8170553	EU-152	-3.80E-01	pCi/L	4.4E+00	U	7.70E+00			GAMMALL_GS	2.0001E+00	07/02/2008				D
BLK	14683-23-9			4.4E+00						L	13:40				
8170553	EU-154	-6.92E-01	pCi/L	5.0E+00	U	9.08E+00			GAMMALL_GS	2.0001E+00	07/02/2008				D
BLK	15585-10-1			5.0E+00						L	13:40				
8170553	EU-155	-2.02E+00	pCi/L	3.0E+00	U	4.90E+00			GAMMALL_GS	2.0001E+00	07/02/2008				D
BLK	14391-16-3			3.0E+00						L	13:40				
8170553	K-40	-8.48E+01	pCi/L	3.8E+01	U	7.22E+01			GAMMALL_GS	2.0001E+00	07/02/2008				D
BLK	13966-00-2			3.8E+01						L	13:40				
8170553	RU-106	-3.86E+00	pCi/L	1.3E+01	U	2.33E+01			GAMMALL_GS	2.0001E+00	07/02/2008				D
BLK	13967-48-1			1.3E+01						L	13:40				
8170553	SB-125	2.43E+00	pCi/L	4.6E+00	U	8.36E+00			GAMMALL_GS	2.0001E+00	07/02/2008				D
BLK	14234-35-6			4.6E+00						L	13:40				

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.

TESTAMERICA

Monday, July 28, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KRH8V1AB	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 11:07
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 06/04/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CJ	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
8197274	Se-79	-4.92E+00	pCi/L	7.6E+00	U	1.00E+01	88.6		SE79_SEP_IE	2.002E-01	07/25/2008				D
BLK	15758-45-9			4.0E+00						L	16:42				

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Monday, July 28, 2008

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KRHXT1AB	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 12:40
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 06/04/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CK	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
8197204	SR-90	-1.78E-01	pCi/L	2.6E-01	U	6.12E-01	66.1		SRISO_SEP_P	1.0002E+00	07/26/2008				D
BLK	10098-97-2			2.3E-01						L	07:00				

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.

Monday, July 28, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KP6501CS	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 11:07
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 06/04/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
8170555	U-234	8.79E+00	pCi/L	1.7E+00		1.64E-01	96.4	8.66E+00	UISO_PLATE_	2.0002E-01	06/26/2008			75	D
BS	13966-29-5			1.0E+00				101.5		L	19:45			125	
8170555	U-235	3.30E-01	pCi/L	2.1E-01		1.83E-01	96.4	3.95E-01	UISO_PLATE_	2.0002E-01	06/26/2008			75	D
BS	15117-96-1			2.0E-01				83.5		L	19:45			125	
8170555	U-238	8.04E+00	pCi/L	1.6E+00		1.39E-01	96.4	9.07E+00	UISO_PLATE_	2.0002E-01	06/26/2008			75	D
BS	U-238			9.7E-01				88.6		L	19:45			125	

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

Monday, July 28, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KP6521CS	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/09/2008 10:18
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 06/09/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	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
8170557	NP-237	8.91E+00	pCi/L	1.9E+00		2.34E-01	80.2	9.40E+00	NP237_LLE_P	2.001E-01	06/26/2008			75	D
BS	13994-20-2			1.3E+00				94.8		L	20:11			125	

SKS 7/28/08

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Monday, July 28, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id: KP6531CS
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W05424 39591
Matrix: WATER WATER
QC Type: BS

Collection Date: 06/04/2008 12:40
Sample On Date:
Received Date: 06/04/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8170558	Uranium	3.65E+01	ug/L	4.3E+00		8.42E-02		3.63E+01	UTOT_KPA	2.49E-02	07/21/2008			75	D
BS	7440-61-1			4.3E+00				100.5		ML	10:15			125	

34

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

TESTAMERICA

Monday, July 28, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KP6531DS	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 12:40
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 06/04/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8170558	Uranium	3.29E+00	ug/L	3.4E-01		8.32E-02		3.58E+00	UTOT_KPA	2.52E-02	07/21/2008			75	D
BS	7440-61-1			3.4E-01				91.9		ML	10:16			125	

35

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

Monday, July 28, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KP6541CS	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 12:40
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 06/04/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8170559	TC-99	5.08E+02	pCi/L	3.5E+01		9.57E+00	100.0	5.45E+02	TC99_ETVDSK	1.253E-01	06/25/2008			75	D
BS	14133-76-7			1.3E+01				93.3		L	22:34			125	

36

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.

Monday, July 28, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KP6551CS	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 12:40
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 06/04/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8170560	ALPHA	1.86E+01	pCi/L	4.8E+00		8.63E-01	100.0	2.25E+01	9310_ALPHAB	2.003E-01	07/07/2008			70	D
BS	12587-46-1			2.9E+00				82.5		L	18:09			130	

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

TESTAMERICA

Monday, July 28, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KP6561CS	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 12:40
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 06/04/2008

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
8170561	BETA	2.42E+01	pCi/L	4.1E+00		2.65E+00	100.0	2.28E+01	9310_ALPHAB	1.998E-01	07/07/2008			70	D
BS	12587-47-2			2.5E+00				106.1		L	16:32			130	

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Monday, July 28, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KP6571CS	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 12:40
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 06/04/2008

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
8170562	H-3	2.26E+03	pCi/L	2.1E+02		2.51E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	06/21/2008			75	D
BS	10028-17-8			1.7E+02				83.5		L	02:15			125	

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

Monday, July 28, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\Fead\V\Rad\W05424.Edd, h:\Reportdb\edd\Fead\V\Rad\39591.Edd

Lab Sample Id: KP6571EM **Sdg/Rept Nbr:** W05424 39591 **Collection Date:** 06/04/2008 12:40

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 06/04/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8170562	H-3	2.24E+03	pCi/L	2.1E+02		2.62E+02	100.0	2.71E+03	906.0_H3_LSC	5.00E-03	06/21/2008			75	D
BS	10028-17-8			1.8E+02				82.7		L	04:59			125	

40

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.

Monday, July 28, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KP6581CS	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 08:25
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 06/04/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8170563	C-14	4.12E+01	pCi/L	5.8E+00		8.49E+00	100.0	4.50E+01	C14_LSC	2.00E-01	06/24/2008			70	D
BS	14762-75-5			4.7E+00				91.4		L	03:15			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.

Monday, July 28, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KP65R1CS	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/09/2008 10:24
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 06/10/2008

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
8170550	I-129L	1.02E+01	pCi/L	1.3E+00		4.31E-01	94.7	9.89E+00	I129LL_SEP_L	3.9366E+00	07/17/2008			70	D
BS	15046-84-1			1.3E+00				103.4		L	12:27			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.

TESTAMERICA

Monday, July 28, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KP65V1CS	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 12:40
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 06/04/2008

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
8170552	I-129L	4.87E+01	pCi/L	7.0E+00		2.70E+00	92.7	4.60E+01	I129_SEP_LEP	5.00E-01	07/14/2008			70	D
BS	15046-84-1			7.0E+00				105.9		L	19:14			130	

43

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.

Monday, July 28, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KP65W1CS	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/05/2008 07:50
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 06/05/2008

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
8170553	CO-60	4.77E+01	pCi/L	7.9E+00		3.16E+00		3.90E+01	GAMMALL_GS	2.0003E+00	07/02/2008			75	D
BS	10198-40-0			7.9E+00				122.3		L	17:05			125	
8170553	CS-137	5.65E+01	pCi/L	8.6E+00		3.59E+00		5.24E+01	GAMMALL_GS	2.0003E+00	07/02/2008			70	D
BS	10045-97-3			8.6E+00				107.8		L	17:05			130	
8170553	EU-152	8.40E+01	pCi/L	1.5E+01		9.15E+00		7.79E+01	GAMMALL_GS	2.0003E+00	07/02/2008			70	D
BS	14683-23-9			1.5E+01				107.8		L	17:05			130	

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

TESTAMERICA

Monday, July 28, 2008

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KRHXT1CS	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 12:40
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 06/04/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CL	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
8197204	SR-90	1.56E+01	pCi/L	2.4E+00		7.69E-01	71.1	1.41E+01	SRISO_SEP_P	1.0005E+00	07/26/2008			70	D
BS	10098-97-2			9.2E-01				110.8		L	07:00			130	

45

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

Monday, July 28, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KPE3X1JR	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 12:40
Client Id:	B1TX74	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 06/04/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-004	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
8170552	I-129L	4.12E-01	pCi/L	1.1E+00	U	2.07E+00	92.7		I129_SEP_LEP	5.005E-01	07/14/2008	23689.	1.1		D
DUP	15046-84-1	-4.05E-01		1.1E+00						L	17:28	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.

Monday, July 28, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KPE3X1LR	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 12:40
Client Id:	B1TX74	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 06/04/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-004	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
8170558	Uranium	3.06E+00	ug/L	3.1E-01		8.35E-02			UTOT_KPA	2.51E-02	07/21/2008	4.8	0.6		D
DUP	7440-61-1	2.92E+00		3.1E-01						ML	10:24	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.

Monday, July 28, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id: KPE3X1NR **Sdg/Rept Nbr:** W05424 39591 **Collection Date:** 06/04/2008 12:40
Client Id: B1TX74 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 06/04/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-004	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
8170559	TC-99	2.88E+00	pCi/L	5.7E+00	U	9.58E+00	100.0		TC99_ETVDSK	1.25E-01	06/25/2008	58.4	0.6		D
DUP	14133-76-7	5.24E+00		4.1E+00						L	22:34	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.

Monday, July 28, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KPE3X1PR	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 12:40
Client Id:	B1TX74	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 06/04/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-004	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
8170560	ALPHA	1.16E+00	pCi/L	1.1E+00	U	1.55E+00	100.0		9310_ALPHAB	1.723E-01	07/07/2008	47.8	0.9		D
DUP	12587-46-1	1.88E+00		1.1E+00						L	14:14	20.0	3		

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

TESTAMERICA

Monday, July 28, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KPE3X1QR	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 12:40
Client Id:	B1TX74	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 06/04/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-004	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
8170561	BETA	7.04E+00	pCi/L	2.0E+00		2.97E+00	100.0		9310_ALPHAB	2.00E-01	07/07/2008	11.1	0.6		D
DUP	12587-47-2	7.86E+00		1.8E+00						L	16:32	20.0	3		

50

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

Monday, July 28, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KPE3X1RR	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 12:40
Client Id:	B1TX74	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 06/04/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-004	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
8170562	H-3	1.17E+02	pCi/L	1.2E+02	U	2.49E+02	100.0		906.0_H3_LSC	5.00E-03	06/21/2008	39.9	0.5		D
DUP	10028-17-8	7.78E+01		1.1E+02						L	07:43	20.0	3		

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Monday, July 28, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KPE6P1GR	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 08:25
Client Id:	B1V658	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 06/04/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-037	MW6-SBB-A19981								CC	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
8170563	C-14	-1.66E+00	pCi/L	4.2E+00	U	8.49E+00	100.0		C14_LSC	2.00E-01	06/24/2008	0.0	0.4		D
DUP	14762-75-5	-3.67E-01		3.4E+00						L	05:23	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.

Monday, July 28, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KPE7T1HR	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 11:07
Client Id:	B1V657	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 06/04/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-037	MW6-SBB-A19981								CD	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
8170555	U-234	1.26E+01	pCi/L	2.4E+00		2.79E-01	99.7		UISO_PLATE_	2.0003E-01	06/26/2008	2.1	0.2		D
DUP	13966-29-5	1.24E+01		1.2E+00						L	19:44	20.0	3		
8170555	U-235	5.04E-01	pCi/L	2.6E-01		1.44E-01	99.7		UISO_PLATE_	2.0003E-01	06/26/2008	7.8	0.2		D
DUP	15117-96-1	5.45E-01		2.5E-01						L	19:44	20.0	3		
8170555	U-238	1.28E+01	pCi/L	2.4E+00		2.06E-01	99.7		UISO_PLATE_	2.0003E-01	06/26/2008	12.2	0.9		D
DUP	U-238	1.13E+01		1.2E+00						L	19:44	20.0	3		

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

TESTAMERICA

Monday, July 28, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KPE7T1JR	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 11:07
Client Id:	B1V657	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 06/04/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-037	MW6-SBB-A19981								CE	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
8197204	SR-90	-1.90E-01	pCi/L	4.0E-01	U	8.93E-01	72.7		SRISO_SEP_P	1.0001E+00	07/26/2008	0.0	0.9		D
DUP	10098-97-2	6.75E-02		4.0E-01						L	07:00	20.0	3		

54

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.

Monday, July 28, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KPF2X1DR	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/05/2008 07:50
Client Id:	B1V7V9	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 06/05/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-005	MW6-SBB-A19981								CF	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
8170553	EU-154	1.66E+00	pCi/L	4.5E+00	U	8.92E+00			GAMMA_GS	2.0002E+00	07/02/2008	0.0	1.8		D
DUP	15585-10-1	-3.92E+00		4.5E+00						L	17:03	20.0	3		
8170553	EU-155	-1.28E+00	pCi/L	3.2E+00	U	5.41E+00			GAMMA_GS	2.0002E+00	07/02/2008	3697.1	1.2		D
DUP	14391-16-3	1.43E+00		3.2E+00						L	17:03	20.0	3		
8170553	K-40	-8.91E+00	pCi/L	3.4E+01	U	6.96E+01			GAMMA_GS	2.0002E+00	07/02/2008	0.0	2.9		D
DUP	13966-00-2	-7.98E+01		3.4E+01						L	17:03	20.0	3		
8170553	RU-106	1.37E+01	pCi/L	1.4E+01	U	2.74E+01			GAMMA_GS	2.0002E+00	07/02/2008	47.1	0.5		D
DUP	13967-48-1	8.49E+00		1.4E+01						L	17:03	20.0	3		
8170553	SB-125	-3.94E+00	pCi/L	4.1E+00	U	6.56E+00			GAMMA_GS	2.0002E+00	07/02/2008	0.0	2.2		D
DUP	14234-35-6	2.53E+00		4.1E+00						L	17:03	20.0	3		
8170553	BE-7	2.43E+00	pCi/L	1.7E+01	U	3.04E+01			GAMMALL_GS	2.0002E+00	07/02/2008	0.0	0.6		D
DUP	13966-02-4	-4.36E+00		1.7E+01						L	17:03	20.0	3		
8170553	CO-60	1.10E+00	pCi/L	1.5E+00	U	3.24E+00			GAMMALL_GS	2.0002E+00	07/02/2008	0.0	2.8		D
DUP	10198-40-0	-1.99E+00		1.5E+00						L	17:03	20.0	3		
8170553	CS-134	-1.01E+00	pCi/L	1.6E+00	U	2.68E+00			GAMMALL_GS	2.0002E+00	07/02/2008	0.0	0.		D
DUP	13967-70-9	-1.02E+00		1.6E+00						L	17:03	20.0	3		
8170553	CS-137	-2.08E-01	pCi/L	1.5E+00	U	2.66E+00			GAMMALL_GS	2.0002E+00	07/02/2008	0.0	0.6		D
DUP	10045-97-3	-8.74E-01		1.5E+00						L	17:03	20.0	3		
8170553	EU-152	2.56E-01	pCi/L	4.1E+00	U	7.30E+00			GAMMALL_GS	2.0002E+00	07/02/2008	0.0	0.4		D
DUP	14683-23-9	-9.81E-01		4.1E+00						L	17:03	20.0	3		

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

TESTAMERICA

Monday, July 28, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KPLWM2HR	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/09/2008 10:18
Client Id:	B1VKT9	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 06/09/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-043	MW6-SBB-A19981								CG	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
8197274	Se-79	6.45E+00	pCi/L	8.3E+00	U	9.65E+00	92.4		SE79_SEP_IE	2.00E-01	07/25/2008	143.3	0.9		D
DUP	15758-45-9	1.07E+00		4.2E+00						L	15:49	20.0	3		

56

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.

Monday, July 28, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample id:	KPLWR1HR	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/09/2008 10:18
Client Id:	B1VKV0	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 06/09/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-043	MW6-SBB-A19981								CH	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
8170557	NP-237	0.00E+00	pCi/L	1.0E-01	U	2.39E-01	76.4		NP237_LLE_P	2.004E-01	06/26/2008	0.0	0.1		D
DUP	13994-20-2	-7.45E-03		1.0E-01						L	20:10	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.

Monday, July 28, 2008

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KPNDQ1CR	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/09/2008 10:24
Client Id:	B1V6C8	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 06/10/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I08-038	MW6-SBB-A19981								CI	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
8170550	I-129L	1.22E+00	pCi/L	3.9E-01	U	5.91E-01	91.4		I129LL_SEP_L	3.877E+00	07/17/2008	16.3	0.8		D
DUP	15046-84-1	1.44E+00		3.9E-01						L	10:41	20.0	3		

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

TESTAMERICA

Monday, July 28, 2008

TestAmerica Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KPE3X1KW	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 12:40
Client Id:	B1TX74	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	MS		**Received Date:** 06/04/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-004	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
8170558	Uranium	3.73E+01	ug/L	4.8E+00		8.35E-02		3.59E+01	UTOT_KPA	2.51E-02	07/21/2008			60	D
MS	7440-61-1			4.8E+00				103.9		ML	10:23			140	

59

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

TESTAMERICA

Monday, July 28, 2008

TestAmerica Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05424.Edd, h:\Reportdb\edd\FeadIV\Rad\39591.Edd

Lab Sample Id:	KPE3X1MW	**Sdg/Rept Nbr:**	W05424	39591	**Collection Date:** 06/04/2008 12:40
Client Id:	B1TX74	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	MS		**Received Date:** 06/04/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S08-004	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
8170559	TC-99	3.42E+03	pCi/L	2.1E+02		9.58E+00	100.0	3.60E+03	TC99_ETVDSK	1.251E-01	06/25/2008			60	D
MS	14133-76-7			3.2E+01				95.1		L	22:34			140	

60

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

RQC050 TestAmerica Laboratories, Inc. Run Date: 7/08/08
WET CHEM BATCHSHEET Time: 14:50:38

TestAmerica Richland

PRODUCTION FIGURES - WET CHEM

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

METHOD: IZ COLIFORM BY METHOD 9223
QC BATCH #: **8170564**
PREP DATE: 6/18/08
COMP DATE: 6/18/08
USER: WAGARR

INITIALS: PREP DM
ANAL ↓

DATA ENTRY:
INITIALS _____
DATE _____

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:	
KPF3R-1-AA	J-8F050322-001	XX I 88 IZ 5I	E	6/6/08	B1V8C6	<1 COL/100mL
KPF3R-1-AC	J-8F050322-001-X	XX I 88 IZ 5I	E	↓	B1V8C6 DUP	↓
KP659-1-AA	J-8F180000-564-B	XX I 88 IZ 5I		↓	INTRA-LAB BLANK	
KP659-1-AC	J-8F180000-564-C	XX I 88 IZ 5I		↓	INTRA-LAB CHECK	14.8 ↓

Control Limits

(0-0)

TESTAMERICA

RQC050 TestAmerica Laboratories, Inc. Run Date: 7/08/08
WET CHEM BATCHSHEET Time: 14:49:31

TestAmerica Richland

PRODUCTION FIGURES - WET CHEM

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

METHOD: IZ COLIFORM BY METHOD 9223
QC BATCH #: **8190389**
PREP DATE: 7/08/08
COMP DATE: 6/18/08
USER: WAGARR

INITIALS: PREP DM
ANAL

DATA ENTRY: INITIALS
DATE

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:	
KPNCT-1-AA	J-8F100263-001	XX I 88 IZ 5I	E	6/11/08	B1VR34	<1
KPNCT-1-AC	J-8F100263-001-X	XX I 88 IZ 5I	E		B1VR34 DUP	
KQ7F9-1-AA	J-8G080000-389-B	XX I 88 IZ 5I			INTRA-LAB BLANK	
KQ7F9-1-AC	J-8G080000-389-C	XX I 88 IZ 5I			INTRA-LAB CHECK	18.7

COL/100mL

Control Limits

(0-0)

TESTAMERICA

RQC050 TestAmerica Laboratories, Inc. Run Date: 7/08/08
WET CHEM BATCHSHEET Time: 14:50:01

TestAmerica Richland

PRODUCTION FIGURES - WET CHEM

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

METHOD: IZ COLIFORM BY METHOD 9223
QC BATCH #: **8190391**
PREP DATE: 7/08/08
COMP DATE: 6/18/08
USER: WAGARR

INITIALS: PREP DM ANAL ↓
DATA ENTRY: INITIALS _____ DATE _____

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:	
KPQWR-1-AA	J-8F110338-001	XX I 88 IZ 5I	E	6/12/08	B1VR96	<1
KPQWR-1-AC	J-8F110338-001-X	XX I 88 IZ 5I	E	↓	B1VR96 DUP	↓
KQ7GE-1-AA	J-8G080000-391-B	XX I 88 IZ 5I		↓	INTRA-LAB BLANK	↓
KQ7GE-1-AC	J-8G080000-391-C	XX I 88 IZ 5I		↓	INTRA-LAB CHECK	13.5

COL/100mL ↓

Control Limits

(0-0)

TestAmerica

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/27/2008 10:35:19 AM

Lot No., Due Date: J8F050181,J8F050195,J8F090197; 07/28/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8170555; RUISO UIso by ALP

SDG, Matrix: W05424; 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 dup icate 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 Thomas E. Gilmore **Date** 6/27/08

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 170555

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: Emily Ford Date: 6/30/14

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

TestAmerica

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/27/2008 4:01:34 PM

Lot No., Due Date: J8F050181,J8F090197; 07/28/2008

Client, Site: 384868: PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8170557; RNP237 Np-237 w/tracer

SDG, Matrix: W05424: 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 Steven E. Richland **Date** 6/27/08

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8170557

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: 6/27/18

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/8/2008 3:29:40 PM

Lot No., Due Date: J8F050186; 07/28/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8170560; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05424; 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 _____ **Date** 7-8-8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8170560

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: Jodie G Date: 7/10/08

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/8/2008 3:31:05 PM

Lot No., Due Date: J8F050186; 07/28/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8170561; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05424; 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 Horton **Date** 7-8-8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8170561

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

Comments on any "No" response: _____

Second Level Review: [signature] Date: 7/10/08

TestAmerica

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/28/2008 8:45:39 AM

Lot No., Due Date: J8F050186,J8F050195; 07/28/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8197204; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05424; 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:
Please see NCM # 10-12736

First Level Review John Worth **Date** 7-28-8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8197204

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 Narr

Second Level Review: Erika Ford Date: 7/28/18

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-12736**
NCM Initiated By: John Norton
Date Opened: 07/28/2008
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Sr-85/90 by GPC-7
Lot #'s (Sample #'s): J8F050186 (1), J8F050195 (3), J8F180000 (554),
QC Batches: 8170554,

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

Problem Description / Root Cause

Name	Date	Description
John Norton	07/28/2008	Originally analyzed as batch # 8170554, these samples were traced with an incorrect tracer.

Corrective Action

Name	Date	Corrective Action
John Norton	07/28/2008	The samples were re-analyzed.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 7/28/2008

TestAmerica

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/15/2008 9:58:54 AM

Lot No., Due Date: J8F050181,J8F050186,J8F050195,J8F050319,J8F090197; 07/28/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8170553; RGAMMA Gamma by GER

SDG, Matrix: W05424; 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:
Please see NCM # 10-12669

First Level Review John Worthington **Date** 7-15-8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 170553

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: Jodie Cox Date: 7/15/08

LS-C38B, Rev. 10, 9/07

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-12669**
NCM Initiated By: John Norton
Date Opened: 07/15/2008
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Gamma by GER
Lot #'s (Sample #'s): J8F050181 (1), J8F050186 (1), J8F050195 (2,3), J8F050319 (1,2), J8F090197 (1,2), J8F180000 (553),
QC Batches: 8170553,

Nonconformance: Dups not within acceptance limits
Subcategory:. Insufficient Volume for sample analysis

Problem Description / Root Cause

Name	Date	Description
John Norton	07/15/2008	The volume of sample provided was not sufficient for the creation of a duplicate gamma sample.

Corrective Action

Name	Date	Corrective Action
John Norton	07/15/2008	The sample was re-counted on a different detector in order to provide a duplicate.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 7/15/2008

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/18/2008 11:52:37 AM

Lot No., Due Date: J8F050181,J8F050191,J8F050195,J8F050319,J8F050327,J8F090190,J8F090197,J8F100266;

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8170550; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05424; 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 _____ **Date** 7-18-8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8170550

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 Jackson Date: 7/23/8

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/16/2008 7:49:15 AM

Lot No., Due Date: J8F050186; 07/28/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8170552; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05424; WATER

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

6.0 Comments on any No response:

First Level Review John Horton **Date** 7-16-8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8170552

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: Jodie G Date: 7/16/08

TestAmerica

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/28/2008 2:13:38 PM

Lot No., Due Date: J8F050195,J8F090197; 07/28/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8197274; RSE79 Se-79 by LSC

8170556 SICS 7/28/08

SDG, Matrix: W05424; WATER

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

6.0 Comments on any No response:
Please see NCM # 10-12743

First Level Review John Vorster **Date** 7-28-8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8197274 & 8170556

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: Jodie C Date: 7/28/08

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-12743**
NCM Initiated By: John Norton
Date Opened: 07/28/2008
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Sep
Tests: None
Lot #'s (Sample #'s): J8F050195 (3), J8F090197 (1),
QC Batches: None.,

Nonconformance: Tracer yield out of limits
Subcategory: Unknown

Problem Description / Root Cause

Name	Date	Description
John Norton	07/28/2008	Originally analyzed in batch # 8170556, these samples failed due to low tracer yields.

Corrective Action

Name	Date	Corrective Action
John Norton	07/28/2008	The samples were re-analyzed in batch #8197274 for acceptable results.

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: 7/28/2008

Lot No., Due Date: J8F050186; 07/28/2008
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 8170559; RTC99 Tc-99 by LSC
SDG, Matrix: W05424; 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=> KPE3X1AN TC-99 58.0 (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. No Count Library found in Batch Data!	Yes	No	N/A ✓
8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8.3 Comments:			
8.31 Results Blank Subtracted as Appropriate. OK	Yes ✓	No	N/A

First Level Review Tina Anderson **Date** 10/21/08

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8170559

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 Dad Date: 6/30/18

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

Lot No., Due Date: J8F050186; 07/28/2008
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 8170562; RTRITIUM H-3 by LSC
SDG, Matrix: W05424; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used Analysis Volume => KPE3X1AA 5.00<10.00 Q:VB		✓	
8.07 The Correct Count Geometry was Used. Count Geometry => KP6571AF SVP15/5<>SVP10/10 KP6571AG SVP15/5<>SVP10/10 KP6571AA SVP15/5<>SVP10/10 KP6571AC SVP15/5<>SVP10/10 KP6571AD SVP15/5<>SVP10/10 KP6571AE SVP15/5<>SVP10/10 KPE3X1AA SVP15/5<>SVP10/10 KPE3X1AR SVP15/5<>SVP10/10 Q:VC		✓	
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. OK	✓		
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=> KPE3X1AR H-3 40.0 (RPD)		✓	
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. OK	✓		
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
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 => H-3	✓		

OK; No Callin Level Found => H-3

8.24 Result + 3s >=0, Not Too Negative. Yes ✓ No N/A
OK

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

8.26 Instruments have Current Calibrations. Yes No N/A

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

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

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

8.3 Comments:

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

First Level Review Lisa Anderson **Date** 1/30/08

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8170562

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: _____ Date: 6/30/16

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/25/2008 11:04:38 AM

Lot No., Due Date: J8F050181,J8F050195,J8F090197; 07/28/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8170563; RC14 C-14 by LSC

SDG, Matrix: W05424; WATER

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

6.0 Comments on any No response:

First Level Review Lisa Anderson **Date** 6/28/08

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8170563

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: 6/25/18

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/21/2008 2:23:49 PM

Lot No., Due Date: J8F050186; 07/28/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8170558; RUNAT UNat by KPA

SDG, Matrix: W05424; WATER

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

6.0 Comments on any No response:

First Level Review John Worthington **Date** 7-21-8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8170558

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: 7/23/8

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/22/2008 2:12:04 PM

Lot No., Due Date: J8F050322; 07/28/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8170564;

SDG, Matrix: W05424; WATER

1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?			✓
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?			✓
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?			✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		
4.0 Raw Data			
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?			✓
4.4 Were spectra reviewed/meet contractual requirements?			✓
4.5 Were raw counts reviewed for anomalies?	✓		
5.0 Other			
5.1 Are all nonconformances included and noted?			✓
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?	✓		
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:

First Level Review Lisa Carlson **Date** 7/22/08

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8170564

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: 7/23/18

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/22/2008 2:09:59 PM

Lot No., Due Date: J8F100263; 07/28/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8190389;

SDG, Matrix: W05424; 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 Tina Carlson **Date** 7/22/08

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8190389

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

Comments on any "No" response: ______________________________

Second Level Review: [signature] Date: 7/23/8

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

7/22/2008 2:08:37 PM

Lot No., Due Date: J8F110338; 07/28/2008

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8190391;

SDG, Matrix: W05424; WATER

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

6.0 Comments on any No response:

First Level Review Lisa Anderson **Date** 7/22/08

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8190391

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: Mike Ford Date: 7/23/8

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

TESTAMERICA

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J8F050181 W05424 DUE 71808 KPEIL	C.O.C. # 108-037-70 Page 1 of 1

Collector: Scott E. Hamaker	Contact/Requester	Telephone No. / MSIN / FAX
SAF No.: 108-037	Sampling Origin	Purchase Order/Charge Code
Project Title: 2UPL MAY 2008	HNF-N-506-15	Ice Chest No.: GW3-007 Temp.
Shipped To (Lab): TestAmerica Incorporated Richland	Method of Shipment	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1V9R6		W	6-4-08	0900	1x20-mL P	Activity Scan	None
B1V9R6		W	↓	↓	2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1V9R6		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1V9R6		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1V9R6		W			2x1000-mL G/P	Selenium-79	HNO3 to pH <2
B1V9R6		W			1x1000-mL G/P	UISO_PLATE_AEA: List-1 (3)	HNO3 to pH <2
B1V9R6		W	↓	↓	1x1000-mL G/P	NP237_LLE_PLATE_AEA:Np-237(1)	HNO3 to pH <2

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Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Scott E. Hamaker / Scott Hamaker	6/4/08 1430	RJP LVLANE / TAL	6/4/08 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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 6408 1430 GM Screen Result 0.1K

Client: PGW SDG #: W05424 NA[ ] SAF #: I08-037 NA [ ]

Work Order Number: J8F050181 Chain of Custody # I08-037-70

Shipping Container ID: _____ Air Bill # _____

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

   (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ] Amount HNO_3 Added _____
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: RJP Date: 6408

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

J8F050186 W05424 DUE 7/8/08

C.O.C. # S08-004-121

Page 1 of 1

Collector Scott E. Hamaker	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. S08-004	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, APRIL 2008	HNF-N 506-15	**Ice Chest No.** 6103-007 **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
B1TWR9	KPE3V	W	6.4.08	1240	1x20-mL P	Activity Scan	None
B1TWR9		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1TWR9		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1TX74	KPE3X	W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1TX74		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1TX74		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1TX74		W			2x4000-mL G/P	I129_SEP_LEPS_GS: I-129 (1)	None
B1TX74		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None

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Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Scott E. Hamaker	Scott Hamaker		6/4/08 1430	LWLANE	TAL		6/4/08 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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 6 4 08 1430 GM Screen Result 0.1 K

Client: PAW SDG #: W05424 NA[ ] SAF #: 508-004 NA [ ]

Work Order Number: J8F050186 Chain of Custody # 508-004-121

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: 6 4 08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TESTAMERICA

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FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J8F050191 W05424 DUE 71808 KPE4X	C.O.C. # S08-005-24 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-506-15	**Ice Chest No.** GW3-007 **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
B1V7H4		W	6.4.08	1033	1x20-mL P	Activity Scan	None
B1V7H4		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Scott E. Hamaker	Scott Hamaker		6/4/08 1430	LW LANE	TAL		6/4/08 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 Liqu	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wipe	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 6 4 08 1430 GM Screen Result 0.1K

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

Work Order Number: 18F050191 Chain of Custody # 508-005-24

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: 6 4 08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TESTAMERICA

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8F050195 W05424 DUE 71808 KPEGD

C.O.C. # I08-037-75

Page 1 of 1

Collector R. Ellingsworth	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-037	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2UP1, MAY 2008	HNF-N-566-16	**Ice Chest No.** 4003-007 **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1V9T3		W	6-4-08	1249	1x20-mL P	Activity Scan	None
B1V9T3		W	〃	〃	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By: R. Ellingsworth (Print) / (Sign)	Date/Time: JUN 04 2008 1430	Received By: WLANE (Print) / TAL (Sign)	Date/Time: JUN 04 2008 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

J8F050195 W05424 DUE 7/8/08 KPEGP

C.O.C. # I08-037-6

Page 1 of 1

Collector R. Ellingsworth	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-037	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2UP1, MAY 2008	HNF-N-506-16	**Ice Chest No.** 4W3-007 **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1V658		W	6-4-08	0825	1x20-mL P	Activity Scan	None
B1V658		W			2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1V658		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1V658		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1V658		W			2x1000-mL G/P	Selenium-79	HNO3 to pH <2
B1V658		W			1x1000-mL G/P	UISO_PLATE_AEA: List-1 (3)	HNO3 to pH <2

I08

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. Ellingsworth			JUN 04 2008 1430		LWLANE	TAL	JUN 04 2008 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

J8F050195 W05424 DUE 71808 KPETT

C.O.C. # **108-037-5**

Page 1 of 1

Collector R. Ellingsworth	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. 108-037	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2UP1, MAY 2008	HNF-N-506-6	**Ice Chest No.** AW5C07 **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1V657		W	6-4-08	1107	1x20-mL P	Activity Scan	None
B1V657		W			2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1V657		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1V657		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1V657		W			2x1000-mL G/P	Selenium-79	HNO3 to pH <2
B1V657		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1V657		W			1x1000-mL G/P	UISO_PLATE_AEA: List-1 (3)	HNO3 to pH <2

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Relinquished By Print: R. Ellingsworth Sign: RJ Ellingsworth	Date/Time: JUN 7 2008 1430	Received By Print: LILANE Sign: TAL	Date/Time: JUN 7 2008 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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 6 4 08 1430 GM Screen Result 0.1K

Client: PGW SDG #: W05424 NA[ ] SAF #: I08-037 NA [ ]

Work Order Number: J8F050195 Chain of Custody # I08-037-5,-6,-75

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: 6 4 08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TESTAMERICA

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8F050319 WO5424 Due 07 21 08

C.O.C. # **S08-005-167**

Page 1 of 1

Collector R. Ellingsworth	**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-506-16	**Ice Chest No.** **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1V7V9		W	06-Jun-08	0750	1x20-mL P	Activity Scan	None
B1V7V9		W	1	1	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1V7V9		W	1	1	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
						KPF2X	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. Ellingsworth			JUN 05 2008 1305		CLANE	TAL	JUN 05 2008 1305
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TESTAMERICA

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J8F050319 W05424 Due 07.21.08	C.O.C. # S08-005-166 Page 1 of 1

Collector: R. Ellingsworth	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-504-Ho	Ice Chest No.: GW-1 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1V7V8		W	6-5-08	1114	1x20-mL P	Activity Scan	None
B1V7V8		W	"	"	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1V7V8		W	"	"	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
						KPF3F	

112

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. Ellingsworth	RJE		JUN 05 2008 1305		WJLANE	TAL	JUN 05 2008 1305
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 06-05-08 1305 GM Screen Result .31

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

Work Order Number: J8F050319 Chain of Custody # 508-005-167, 166

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: 06-05-08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TESTAMERICA

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8F050322 W05424 Due 07 21 08

C.O.C. # W08-005-434

Page 1 of 1

Collector R. Ellingsworth	**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 lic	**Ice Chest No.** GW **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
B1V8C6		W	6/5/08	1210	1x20-mL P	Activity Scan	None
B1V8C6		W	"	"	1x500-mL P	9223_COLIFORM: Coliform (1)	Na2S2O3 Cool~4C
						KPF3R	

114

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. Ellingsworth			JUN 05 2008 1305		LILANE TAL		JUN 05 2008 1305
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica

Sample Check-in List

Date/Time Received: 06-05-08 1305 **GM Screen Result** .01

Client: PGW **SDG #:** W05424 NA[ ] **SAF #:** W08-005 NA[ ]

Work Order Number: J8F050322 **Chain of Custody #** W08-005-434

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** 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:** 06-05-08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, Rev. 7, 1/08

TESTAMERICA

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8F050327 W05424 Due 07-27-08

C.O.C. # **I08-037-61**

Page 1 of 1

Collector R. Ellingsworth	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-037	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2UP1, MAY 2008	HNE-N-50L-16	**Ice Chest No.** GW1 **Temp.**
Shipped To (Lab) TestAmerica Incorporated Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1V695		W	6-5-08	1029	1x20-mL P	Activity Scan	None
B1V695		W	1	1	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						KPF4V	

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Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. Ellingsworth			JUN 05 2008 1305		RJLANE TAL		JUN 05 2008 1305
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		DI = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

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

TESTAMERICA

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8F050327 W05424 Due 07-21-08

C.O.C. # **I08-037-53**

Page 1 of 1

Collector R. Ellingsworth	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-037	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2UP1 MAY 2008	HNF-2-SOL-14	**Ice Chest No.** **Temp.**
Shipped To (Lab) TestAmerica Incorporated Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1V691		W	6-5-08	0844	1x20-mL P	Activity Scan	None
B1V691		W	"	"	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
						KPF46	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. Ellingsworth	R. Ellingsworth		JUN 05 2008 1305		LVLANE	TAL	JUN 05 2008 1305
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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THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 06-05-08 1305 **GM Screen Result** .07

Client: PDW **SDG #:** W05424 NA[ ] **SAF #:** I08-037 NA [ ]

Work Order Number: J8F050327 **Chain of Custody #** I08-037-61, 53

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: LP **Date:** 6/5/08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-013, Rev. 7, 1/08

TESTAMERICA

FLUOR HANFORD	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J8F090190 W05424 DUE 72408 KPLVT	C.O.C. # S08-005-182 Page 1 of 1

Collector R. D. Julian	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. S08-005	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, MAY 2008	HNF-N-506-12	**Ice Chest No.** HSS-5 **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1V7X5		W	06/05/08	1056	1x20-mL P	Activity Scan	None
B1V7X5		W	"	"	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
R.D. Julian		0939 6/9/2008	RA SHEPARD		0930 6/9/2008
RA SHEPARD		1430 6/9/08		LVLANE TAL 6908	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

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

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

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

Work Order Number: J8F090190 Chain of Custody # 508-005-182

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
5. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ___ Tape
   - ✓ Custody Seals
   - ___ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ___ Broken
   - ___ Leaking
   - ___ Have Air Bubbles

   (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ] Amount HNO_3 Added _____
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: _____ Date: 6908

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TESTAMERICA

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8F090197 W05424 DUE 72408 KPLWM

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

Page 1 of 1

Collector KE Hamilton	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-043	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2UP1, JUNE 2008	HNF-N-506-15	**Ice Chest No.** GWS/022 **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1VKT9		W	6-9-08	1018	1x20-mL P	Activity Scan	None
B1VKT9		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1VKT9		W			2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1VKT9		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1VKT9		W			1x1000-mL G/P	NP237_LLE_PLATE_AEA:Np-237(1)	HNO3 to pH <2
B1VKT9		W			2x1000-mL G/P	Selenium-79	HNO3 to pH <2
B1VKT9		W			1x1000-mL G/P	UISO_PLATE_AEA: List-1 (3)	HNO3 to pH <2

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

Matrix *

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

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

TESTAMERICA

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8F090197 W05424 DUE 7 24 08 KPLWR

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

Page 1 of 1

Collector KE Hamilton	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869	**MSIN** **FAX**
SAF No. I08-043	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**	
Project Title 2UP1, JUNE 2008	HNF-N-506-15	**Ice Chest No.** GWS/022	**Temp.**
Shipped To (Lab) TestAmerica Incorporated Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**	
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**	

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

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1VKV0		W	6.9.08	1018	1x20-mL P	Activity Scan	None
B1VKV0		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1VKV0		W			2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1VKV0		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1VKV0		W			1x1000-mL G/P	NP237_LLE_PLATE_AEA:Np-237(1)	HNO3 to pH <2
B1VKV0		W			2x1000-mL G/P	Selenium-79	HNO3 to pH <2
B1VKV0		W	↓	↓	1x1000-mL G/P	UISO_PLATE_AEA: List-1 (3)	HNO3 to pH <2

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Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
KE Hamilton			JUN 09 2008 1420		CJ LANE	TAL	6 9 08 1420
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 6908 1420 GM Screen Result 0.1K

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

Work Order Number: 18F090197 Chain of Custody # I08-043-11,-12

Shipping Container ID: _____ Air Bill # _____

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

   (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ] Amount HNO_3 Added _____
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: RJR Date: 6908

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TESTAMERICA

FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

N8F100263 W05424 DUE 72508 KPNCT

C.O.C. # **W08-006-36**

Page 1 of 1

Collector Roy Shepard, Fluor Hanford	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. W08-006	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA, JUNE 2008	HNF-N-506-15	**Ice Chest No.** GW-1 **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
B1VR34		W	6-10-08	1015	1x500-mL P	9223_COLIFORM: Coliform (1)	Na2S2O3 Cool~4C
B1VR34		W	↓	↓	1x20-mL P	Activity Scan	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
		JUN 10 2008	1018			JUN 10 2008	1018
Relinquished By			Date/Time 1320 6/10/08	Received By			Date/Time
Relinquished By			Date/Time	Received By	LVLANE TAL		Date/Time 61008 1320
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 6 10 08 1320 GM Screen Result 0.1K

Client: PGW SDG #: W05424 NA[ ] SAF #: W08-006 NA [ ]

Work Order Number: J8F100263 Chain of Custody # W08-006-36

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: 6 10 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

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8F100266 W05424 DUE 7 25 08 KPNDQ

C.O.C. # **I08-038-16**

Page 1 of 1

Collector Fluor Hanford D. R. BREWINGTON	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. I08-038	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2ZP1, MAY 2008	HNF-EP-5506-12	**Ice Chest No.** CWS-021 **Temp.** 6/10/08
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
B1V6C8		W	6-9-08	1004	1x20-mL P	Activity Scan	None
B1V6C8		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	D. R. BREWINGTON	D.R. Brewington	6/10/08 1200	Dan Sparks	Dan Sparks	Dan Sparks	6/10/08
Relinquished By			Date/Time	Received By			Date/Time
Dan Sparks Dan Sparks			6/10/08 1320	W.R. LANE	TAL		6 10 08 1320
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TESTAMERICA

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FLUOR HANFORD

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

J8F100266 W05424 DUE 72508 KPND3

C.O.C. # I08-038-17

Page 1 of 1

Collector: Fluor Hanford D R BREWINGTON	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I08-038	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2ZPI, MAY 2008	HNF-N-506-12	Ice Chest No.: 6965-021 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
B1V6C9		W	6-9-08	1024	1x20-mL P	Activity Scan	None
B1V6C9		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Fluor Hanford D.R. BREWINGTON [signature]		Dan Sparks [signature]	6/10/08 1200
Dan Sparks [signature]	6/10/08 1320	LJ LANE TAL [signature]	61008 1320

Matrix *

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

J8F100266 WO5424 DUE 72508 KPND4

C.O.C. # I08-038-10

Page 1 of 1

Collector: Fluor Hanford S A BREWINGTON	Contact/Requester: Steve Trent	Telephone No.: 509-373-5869 MSIN FAX
SAF No.: I08-038	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2ZP1, MAY 2008	HNF-N-506-12	Ice Chest No.: GWS-01 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
B1V6C0		W	06/03/08	1226	1x20-mL P	Activity Scan	None
B1V6C0		W	"	"	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

I28

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	DA Brewington		6/6/08 1200	Dan Sparks			6/6/08 1200
Relinquished By			Date/Time	Received By			Date/Time
Dan Sparks			6/6/08 1320	RJR LWLANE	TAL		6/10/08 1320
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 6 10 08 1320 GM Screen Result 0.1K

Client: PGW SDG #: W05424 NA[ ] SAF #: I08-038 NA [ ]

Work Order Number: J8F100266 Chain of Custody # I08-038-10,-16,-17

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: 6/10/08

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 J8F110338 W05424 DUE 72508 KPQWR	C.O.C. # W08-006-64 Page 1 of 1

Collector Roy Sick...	**Contact/Requester** Steve Trent	**Telephone No.** 509-373-5869 **MSIN** **FAX**
SAF No. W08-006	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title RCRA JUNE 2008	HNF-N-506-15	**Ice Chest No.** **Temp.**
Shipped To (Lab) TestAmerica Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.**
Protocol 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
B1VR96		W	6/11/08	11:58	1x500-mL P	9223_COLIFORM: Coliform (1)	Na2S2O3 Cool~4C
B1VR96		W	↓	↓	1x20-mL P	Activity Scan	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	Roy Sickle		6/11/08 1205		Dan Sparks		6/11/08 1205
Relinquished By			Date/Time	Received By			Date/Time
Dan Sparks	Dan Sparks		6/11/08 1250		LYLANE TAL		6/11/08 1250
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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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 6/1/08 1250 GM Screen Result 0.1K

Client: PGW SDG #: W05424 NA[ ] SAF #: WOR-006 NA [ ]

Work Order Number: J8F110338 Chain of Custody # W08-006-64

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: 6/1/08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TESTAMERICA

6/24/2008 6:36:20 AM

Sample Preparation/Analysis

Balance Id:1120373922

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 07/28/2008

Sep1 DT/Tm Tech:

Batch: 8170555 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

Prep Tech: ,WoodT

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 KPE1L-1-AG J8F050181-1-SAMP 06/04/2008 09:00			200.05g,in AmtRec: VIAL20,6XLP,3X4LP	200.05g #Containers: 10	UITC19751 04/17/08,pd 06/15/01,r	200		Scr: Alpha: 8.40E-04 uCi/Sa		Beta: -4.47E-04 uCi/Sa
2 KPE6P-1-AF J8F050195-2-SAMP 06/04/2008 08:25			200.00g,in AmtRec: VIAL20,5XLP,3X4LP	200.00g #Containers: 9	UITC19752 04/17/08,pd 06/15/01,r			Scr: Alpha: 2.19E-03 uCi/Sa		Beta: -2.49E-03 uCi/Sa
3 KPE7T-1-AG J8F050195-3-SAMP 06/04/2008 11:07			200.02g,in AmtRec: VIAL20,8XLP,3X4LP	200.02g #Containers: 12	UITC19870 05/20/08,pd 06/15/01,r			Scr: Alpha: -7.63E-04 uCi/Sa		Beta: 1.71E-03 uCi/Sa
4 KPE7T-1-AH-X J8F050195-3-DUP 06/04/2008 11:07			200.03g,in AmtRec: VIAL20,8XLP,3X4LP	200.03g #Containers: 12	UITC19882 05/20/08,pd 06/15/01,r			Scr: Alpha: -7.63E-04 uCi/Sa		Beta: 1.71E-03 uCi/Sa
5 KPLWM-1-AG J8F090197-1-SAMP 06/09/2008 10:18			200.04g,in AmtRec: VIAL20,6XLP,3X4LP	200.04g #Containers: 10	UITC19883 05/20/08,pd 06/15/01,r			Scr: Alpha: 3.31E-03 uCi/Sa		Beta: 7.47E-04 uCi/Sa
6 KPLWR-1-AG J8F090197-2-SAMP 06/09/2008 10:18			200.02g,in AmtRec: VIAL20,6XLP,3X4LP	200.02g #Containers: 10	UITC19884 05/20/08,pd 06/15/01,r			Scr: Alpha: 8.26E-04 uCi/Sa		Beta: 3.47E-04 uCi/Sa
7 KP650-1-AA-B J8F180000-555-BLK 06/04/2008 11:07			200.01g,in AmtRec:	200.01g #Containers: 1	UITC19885 05/20/08,pd 06/15/01,r			Scr: Alpha:		Beta:

TESTAMERICA

6/24/2008 6:36:22 AM

Sample Preparation/Analysis

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

Balance Id:1120373922

Pipet #: _____

AnalyDueDate: 07/28/2008

Sep1 DT/Tm Tech:

Batch: 8170555 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,WoodT

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 KP650-1-AC-C			200.02g,in	200.02g	UISG1653	200				
J8F180000-555-LCS					04/23/08,pd 06/15/01,r					
06/04/2008 11:07		AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:

Comments: pH<2.0 6/24/08 JSW

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

KPE1L1AG-SAMP Constituent List:

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

KP6501AA-BLK:

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

KP6501AC-LCS:

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

KPE1L1AG-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KP6501AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KP6501AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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6/27/2008 10:34:47 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/28/2007, 7/2/2008, Batch: '8170555', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting		Comments
8170555						
AC			Rev1C	WoodT	6/24/2008 6:20:25	
SC				wagarr	IsBatched 6/19/2008 8:30:57 AM	ICOC_RADCALC v4.8.32
SC				WoodT	InPrep 6/24/2008 6:20:25 AM	RICH-RC-5016 Revision 7
SC				WoodT	Prep1C 6/24/2008 6:36:34 AM	RICH-RC-5016 REVISION 7
SC				AshworthA	Prep2C 6/24/2008 2:48:18 PM	PRP-010 REVISION 0
SC				AshworthA	Sep1C 6/25/2008 5:11:18 PM	ALP-004 REVISION 0
SC				AshworthA	Sep2C 6/26/2008 4:59:50 PM	ALP-015 REVISION 0
SC				DAWKINSO	InCnt1 6/26/2008 5:39:09 PM	RL-CI-008 REVISION 0
SC				BlackCL	CalcC 6/27/2008 6:14:35 AM	RL-CI-008 REVISION 0
SC				whelands	Rev1C 6/27/2008 10:34:35 AM	RICH-RC-0002 REV 8
AC				WoodT	6/24/2008 6:36:34	
AC				AshworthA	6/24/2008 2:48:18 PM	
AC				AshworthA	6/25/2008 5:11:18 PM	
AC				AshworthA	6/26/2008 4:59:50 PM	
AC				DAWKINSO	6/26/2008 5:39:09 PM	
AC				BlackCL	6/27/2008 6:14:35	
AC				whelands	6/27/2008 10:34:35	

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 8

ICOCFractions v4.8.33

TESTAMERICA

6/24/2008 4:20:14 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

KO Np-237 PrpRC5086, SepRC5064(5003)
XW Neptunium-237 with tracer by alpha spec
5I CLIENT: HANFORD

Pipet #: DRM

AnalyDueDate: 07/28/2008 W05424

Sep1 DT/Tm Tech: 6/26/08 10:45AM

Batch: 8170557 WATER pCi/L

PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

Work Ord, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
128 1 KPE1L-1-AA J8F050181-1-SAMP 06/04/2008 09:00			200.10g,in AmtRec: VIAL20,6XLP,3X4LP	200.10g #Containers: 10	NPTA7084 06/24/08,pd 06/01/01,r			200 Scr:	Alpha: 8.40E-04 uCi/Sa		Beta: -4.47E-04 uCi/Sa	
130 2 KPLWM-1-AA J8F090197-1-SAMP 06/09/2008 10:18			200.20g,in AmtRec: VIAL20,6XLP,3X4LP	200.20g #Containers: 10	NPTA7085 06/24/08,pd 06/01/01,r			Scr:	Alpha: 3.31E-03 uCi/Sa		Beta: 7.47E-04 uCi/Sa	
43 3 KPLWR-1-AA J8F090197-2-SAMP 06/09/2008 10:18			200.00g,in AmtRec: VIAL20,6XLP,3X4LP	200.00g #Containers: 10	NPTA7086 06/24/08,pd 06/01/01,r			Scr:	Alpha: 8.26E-04 uCi/Sa		Beta: 3.47E-04 uCi/Sa	
135 44 4 KPLWR-1-AH-X J8F090197-2-DUP 06/09/2008 10:18			200.40g,in AmtRec: VIAL20,6XLP,3X4LP	200.40g #Containers: 10	NPTA7087 06/24/08,pd 06/01/01,r			Scr:	Alpha: 8.26E-04 uCi/Sa		Beta: 3.47E-04 uCi/Sa	
131 5 KP652-1-AA-B J8F180000-557-BLK 06/09/2008 10:18			200.00g,in AmtRec:	200.00g #Containers: 1	NPTA7088 06/24/08,pd 06/01/01,r			Scr:	Alpha:		Beta:	
132 6 KP652-1-AC-C J8F180000-557-LCS 06/09/2008 10:18			200.10g,in AmtRec:	200.10g #Containers: 1	NPSE0473 05/15/08,pd 06/01/01,r			Scr:	Alpha:		Beta:	

TESTAMERICA

6/24/2008 4:20:16 PM

Sample Preparation/Analysis

KO Np-237 PrpRC5086, SepRC5064(5003)
XW Neptunium-237 with tracer by alpha spec
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 07/28/2008

Sep1 DT/Tm Tech:

Batch: 8170557 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD

Work Ord, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	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:
PR20 Out 6/24/08

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

KPE1L1AA-SAMP Constituent List:
Np-237 RDL:0.6 pCi/L LCL: UCL: RPD:
KP6521AA-BLK:
Np-237 RDL:0.6 pCi/L LCL: UCL: RPD:
KP6521AC-LCS:

KPE1L1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KP6521AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KP6521AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

6/27/2008 4:01:10 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/28/2007, 7/2/2008, Batch: '8170557', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8170557						
AC		Rev1C	HarrisD	6/24/2008 4:14:56 PM		
SC			wagarr	IsBatched	6/19/2008 8:30:57 AM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	6/24/2008 4:14:56 PM	RL-PRP-004 REVISION 0
SC			HarrisD	Prep1C	6/24/2008 4:20:17 PM	RL-PRP-004 REVISION 0
SC			ManisD	Sep2C	6/26/2008 5:36:29 PM	RL-ALP-016 REV 0
SC			DAWKINSO	InCnt	6/26/2008 6:33:36 PM	RL-CI-008 REVISION 0
SC			ClarkR	CalcC	6/27/2008 12:11:00 PM	RL-CI-008 REVISION 0
SC			whelands	Rev1C	6/27/2008 4:01:06 PM	RICH-RC-0002 REV 8
AC			HarrisD	6/24/2008 4:20:17 PM		
AC			ManisD	6/26/2008 5:36:29 PM		
AC			DAWKINSO	6/26/2008 6:33:36 PM		
AC			ClarkR	6/27/2008 12:11:00		
AC			whelands	6/27/2008 4:01:06 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.33

TESTAMERICA

6/27/2008 10:49:05 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 07/28/2008 W5424

Batch: 8170560 **WATER** **pCi/L**

SEQ Batch, Test: None

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

PM, Quote: SS , 57671

Balance Id:1120482733
Pipet #: 2-15
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,HarrisD | Beck

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 KPE3X-1-AC J8F050186-2-SAMP 06/04/2008 12:40 AmtRec: 2X500MLP,2XLP,2X4LP #Containers: 6		172.50g,in		1.5	38.7	50	10D Scr:	1477 Alpha: -2.14E-03 uCi/Sa	7/7/08 ne	Beta: 2.40E-03 uCi/Sa
2 KPE3X-1-AP-X J8F050186-2-DUP 06/04/2008 12:40 AmtRec: 2X500MLP,2XLP,2X4LP #Containers: 6		172.30g,in			39.1		10E Scr:	Alpha: -2.14E-03 uCi/Sa		Beta: 2.40E-03 uCi/Sa
3 KP655-1-AA-B J8F180000-560-BLK 06/04/2008 12:40 AmtRec: #Containers: 1		200.30g,in			0.9		10F Scr:	Alpha:		Beta:
4 KP655-1-AC-C J8F180000-560-LCS 06/04/2008 12:40 AmtRec: #Containers: 1		200.30g,in	ASD4503 05/27/08,pd 06/01/01,r		0.8		12A Scr:	1835 Alpha:	7/7/08 ne	Beta:

Comments: pH 2.0 Aliquot reduced due to wt screens DH 6/27/08

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

KPE3X1AC-SAMP Constituent List:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:
KP6551AA-BLK:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:
KP6551AC-LCS:
Am-241 RDL: pCi/L LCL:70 UCL:130 RPD:20
KPE3X1AC-SAMP Calc Info:

6/27/2008 10:49:07 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 07/28/2008

Sep1 DT/Tm Tech:

Batch: 8170560 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

KP6551AA-BLK:

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

KP6551AC-LCS:

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

Approved By _____ Date: _____

7/8/2008 2:37:30 PM

ICOC Fraction Transfer/Status Report

ByDate: 7/9/2007, 7/13/2008, Batch: '8170560', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8170560						
AC		Rev1C	HarrisD	6/27/2008 10:46:23		
SC			wagarr	IsBatched	6/19/2008 8:30:57 AM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	6/27/2008 10:46:23 AM	RICH-RC-5014 REVISION 0
SC			HarrisD	Prep1C	6/27/2008 10:49:08 AM	RL-PRP-004 REVISION 0
SC			BockJ	InPrep2	7/1/2008 11:13:10 AM	RL-GPC-001 REVISION 0
SC			BockJ	Prep2C	7/7/2008 1:16:18 PM	RL-GPC-001 REVISION 0
SC			ClarkR	InCnt1	7/7/2008 1:19:01 PM	RL-CI-006 REVISION 0
SC			DAWKINSO	CalcC	7/7/2008 9:35:55 PM	RL-CI-006 REVISION 0
SC			nortonj	Rev1C	7/8/2008 2:37:26 PM	RICH-RC-0002 REV 8
AC			HarrisD	6/27/2008 10:49:08		
AC			BockJ	7/1/2008 11:13:10		
AC			BockJ	7/7/2008 1:16:18 PM		
AC			ClarkR	7/7/2008 1:19:01 PM		
AC			DAWKINSO	7/7/2008 9:35:55 PM		
AC			nortonj	7/8/2008 2:37:26 PM		

AC: Accepting Entry; SC: Status Change

TESTAMERICA

6/27/2008 10:52:45 AM

Sample Preparation/Analysis

Balance Id:1120482733

Pipet #: 245

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

AnalyDueDate: 07/28/2008 W8424

Batch: 8170561 WATER pCi/L

PM, Quote: SS , 57671

SEQ Batch, Test: None

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD | Back S.

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 **KPE3X-1-AD** J8F050186-2-SAMP 06/04/2008 12:40 AmtRec: 2X500MLP,2XLP,2X4LP #Containers: 6		200.20g,in		1.5	100.6	100	32A	1721	7/7/08 [illegible]	Scr: Alpha: -2.14E-03 uCi/Sa Beta: 2.40E-03 uCi/Sa
2 **KPE3X-1-AQ-X** J8F050186-2-DUP 06/04/2008 12:40 AmtRec: 2X500MLP,2XLP,2X4LP #Containers: 6		200.00g,in			100.0		32B			Scr: Alpha: -2.14E-03 uCi/Sa Beta: 2.40E-03 uCi/Sa
3 **KP656-1-AA-B** J8F180000-561-BLK 06/04/2008 12:40 AmtRec: #Containers: 1		200.30g,in			ø		32D			Scr: Alpha: Beta:
4 **KP656-1-AC-C** J8F180000-561-LCS 06/04/2008 12:40 AmtRec: #Containers: 1		199.80g,in	BESB3269 05/27/08,pd 10/11/06,r		0.3		32C			Scr: Alpha: Beta:

Comments: pH 2.0 DH 6/27/08

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

KPE3X1AD-SAMP Constituent List:
  BETA       RDL:4          pCi/L     LCL:       UCL:       RPD:
KP6561AA-BLK:
  BETA       RDL:4          pCi/L     LCL:       UCL:       RPD:
KP6561AC-LCS:
  Sr-90      RDL:           pCi/L     LCL:70     UCL:130    RPD:20
KPE3X1AD-SAMP Calc Info:
```

6/27/2008 10:52:46 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 07/28/2008

Sep1 DT/Tm Tech:

Batch: 8170561 **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
KP6561AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KP6561AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ **Date:** _____

7/8/2008 3:30:23 PM

ICOC Fraction Transfer/Status Report

ByDate: 7/9/2007, 7/13/2008, Batch: '8170561', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
8170561							
AC			Rev1C	HarrisD	6/27/2008 10:50:24		
SC				wagarr	IsBatched	6/19/2008 8:30:57 AM	ICOC_RADCALC v4.8.32
SC				HarrisD	InPrep	6/27/2008 10:50:24 AM	RICH-RC-5014 REVISION 0
SC				HarrisD	Prep1C	6/27/2008 10:52:47 AM	RL-PRP-004 REVISION 0
SC				BockJ	InPrep2	7/1/2008 11:13:17 AM	RL-GPC-001 REVISION 0
SC				BockJ	Prep2C	7/7/2008 1:16:38 PM	RL-GPC-001 REVISION 0
SC				ClarkR	InCnt1	7/7/2008 1:19:53 PM	RL-CI-006 REVISION 0
SC				DAWKINSO	CalcC	7/7/2008 9:36:03 PM	RL-CI-006 REVISION 0
SC				nortonj	Rev1C	7/8/2008 3:30:20 PM	RICH-RC-0002 REV 8
AC				HarrisD	6/27/2008 10:52:47		
AC				BockJ	7/1/2008 11:13:17		
AC				BockJ	7/7/2008 1:16:38 PM		
AC				ClarkR	7/7/2008 1:19:53 PM		
AC				DAWKINSO	7/7/2008 9:36:03 PM		
AC				nortonj	7/8/2008 3:30:20 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.33

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RE-ANALYSIS REQUEST

DUE DATE 7-28

CUSTOMER RGW

ANALAYSIS Sr

MATRIX H_2O

LOT NUMBER J8F050186, 050195

SAMPLE DELIVERY GROUP WO 5424

OLD BATCH NUMBER 8170554

NEW BATCH NUMBER 8197204

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

RC-048, 12/07, Rev 8

TESTAMERICA

7/24/2008 1:19:29 PM

Sample Preparation/Analysis

Balance Id:1120482733,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: 07/28/2008

Sep1 DT/Tm Tech: 07/17/2008 16:07,ManisD

Batch: 8197204 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech: 07/24/2008 09:02,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 KPE3V-2-AC J8F050186-1-SAMP		1000.40g,in	SRTB16261 05/21/08,pd 05/22/07 r		1.0	22	100	SA JA	0143 0750	7/28/2008 7/26/08 RC	
							07/17/2008 16:07;s1, 07/24/2008				
06/04/2008 12:40		AmtRec: VIAL20,3XLP,4LP		#Containers: 5				Scr:	Alpha: 2.39E-04 uCi/Sa		Beta: 4.45E-04 uCi/Sa
2 KPE7T-1-AJ-X J8F050195-3-DUP		1000.10g,in	SRTB16262 05/21/08,pd 05/22/07 r		1.0	21.8	100	3B JB	0143 0750	7/28/2008 7/26/08 RC	
							07/17/2008 16:07;s1, 07/24/2008				
06/04/2008 11:07		AmtRec: VIAL20,8XLP,3X4LP		#Containers: 12				Scr:	Alpha: -7.63E-04 uCi/Sa		Beta: 1.71E-03 uCi/Sa
3 KPE7T-2-AF J8F050195-3-SAMP		1000.30g,in	SRTB16263 05/21/08,pd 05/22/07 r		1.0	21.6	100	3C JC	0143 0750	7/28/2008 7/26/08 RC	
							07/17/2008 16:07;s1, 07/24/2008				
06/04/2008 11:07		AmtRec: VIAL20,8XLP,3X4LP		#Containers: 12				Scr:	Alpha: -7.63E-04 uCi/Sa		Beta: 1.71E-03 uCi/Sa
4 KRHXT-1-AA-B J8G150000-204-BLK		1000.20g,in	SRTB16264 05/21/08,pd 05/22/07 r		1.0	21.6	100	3D JD	0143 0750	7/28/2008 7/26/08 RC	
							07/17/2008 16:07;s1, 07/24/2008				
06/04/2008 12:40		AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:

TESTAMERICA

7/24/2008 1:19:29 PM

Sample Preparation/Analysis

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

Balance Id:1120482733,1120482733,1120

Pipet #: _____

AnalyDueDate: 07/28/2008

Batch: 8197204 pCi/L
SEQ Batch, Test: None

Sep1 DT/Tm Tech: 07/17/2008 16:07,ManisD

Sep2 DT/Tm Tech: 07/24/2008 09:02,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:
5 KRHXT-1-AC-C		1000.50g,in	SRSG1484		1.0	21.1	100	YA	0443	7/25/08	
J8G150000-204-LCS			06/18/08,pd 01/23/09,r					YA	0756	7/26/08 mc	

07/17/2008 16:07,s1, 07/24/2008

06/04/2008 12:40 AmtRec: #Containers: 1 Scr: Alpha: Beta:

Comments:

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

KPE3V2AC-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

KRHXT1AA-BLK:
Sr-85 RDL: pCi/L LCL:20 UCL:105 RPD:20 Sr-90 RDL:2 pCi/L LCL: UCL: RPD:

KRHXT1AC-LCS:
Sr-85 RDL: pCi/L LCL:20 UCL:105 RPD:20 Sr-90 RDL:2 pCi/L LCL:70 UCL:130 RPD:20

KPE3V2AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KRHXT1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KRHXT1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

146

7/28/2008 8:43:00 AM

ICOC Fraction Transfer/Status Report

ByDate: 7/29/2007, 8/2/2008, Batch: '8197204', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8197204						
AC		Rev1C	HarrisD	7/15/2008 11:43:45		
SC			nortonj	IsBatched	7/15/2008 9:28:47 AM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	7/15/2008 11:43:45 AM	RL-PRP-004 REVISION 0
SC			HarrisD	Prep1C	7/15/2008 11:49:55 AM	RL-PRP-004 REVISION 0
SC			ManisD	InSep1	7/16/2008 8:24:02 AM	RL-GPC-003 REV 0
SC			ManisD	Sep1C	7/17/2008 5:36:05 PM	RL-GPC-003 REV 0
SC			DAWKINSO	InCnt1	7/17/2008 5:52:13 PM	RL-CI-007 REVISION 0
SC			BlackCL	Cnt1C	7/18/2008 5:50:44 AM	RL-CI-007 REVISION 0
SC			ManisD	InSep2	7/22/2008 10:22:18 AM	RL-GPC-004 REV 0
SC			ManisD	Sep2C	7/24/2008 1:12:52 PM	RL-GPC-004 REV 0
SC			DAWKINSO	InCnt2	7/24/2008 3:09:44 PM	RL-CI-006 REVISION 0
SC			ClarkR	CalcC	7/26/2008 9:22:51 AM	RL-CI-006 REVISION 0
SC			nortonj	Rev1C	7/28/2008 8:42:54 AM	RICH-RC-0002 REV 8
AC			HarrisD	7/15/2008 11:49:55		
AC			ManisD	7/16/2008 8:24:02		
AC			ManisD	7/17/2008 5:36:05 PM		
AC			DAWKINSO	7/17/2008 5:52:13 PM		
AC			BlackCL	7/18/2008 5:50:44		
AC			ManisD	7/22/2008 10:22:18		
AC			ManisD	7/24/2008 1:12:52 PM		
AC			DAWKINSO	7/24/2008 3:09:44 PM		
AC			ClarkR	7/26/2008 9:22:51		
AC			nortonj	7/28/2008 8:42:54		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 11

ICOCFractions v4.8.33

TESTAMERICA

6/27/2008 12:25:24 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 07/28/2008 L05424

Batch: 8170553 WATER pCi/L

SEQ Batch, Test: None

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

PM, Quote: SS , 57671

Balance Id:1120482733

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD / Boozy

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 **KPE1L-1-AD** J8F050181-1-SAMP 06/04/2008 09:00		2000.40g,in AmtRec: VIAL20,6XLP,3X4LP	#Containers: 10	JV 7-15-8	~~200ml~~ 100ml	~~200~~ ~~100~~ 200 JV 7-15-8 JV 7-15-8	G13	1654	7/7/08 JM	Scr: Alpha: 8.40E-04 uCi/Sa Beta: -4.47E-04 uCi/Sa
2 **KPE3V-1-AA** J8F050186-1-SAMP 06/04/2008 12:40		2000.20g,in AmtRec: VIAL20,3XLP,4LP	#Containers: 5				G6	1655		Scr: Alpha: 2.39E-04 uCi/Sa Beta: 4.45E-04 uCi/Sa
3 **KPE6P-1-AC** J8F050195-2-SAMP 06/04/2008 08:25		2000.10g,in AmtRec: VIAL20,5XLP,3X4LP	#Containers: 9				G8	1656		Scr: Alpha: 2.19E-03 uCi/Sa Beta: -2.49E-03 uCi/Sa
4 **KPE7T-1-AC** J8F050195-3-SAMP 06/04/2008 11:07		2000.10g,in AmtRec: VIAL20,8XLP,3X4LP	#Containers: 12				G10	1656		Scr: Alpha: -7.63E-04 uCi/Sa Beta: 1.71E-03 uCi/Sa
5 **KPF2X-1-AA** J8F050319-1-SAMP 06/05/2008 07:50		2000.20g,in AmtRec: 20ML,3X4LP	#Containers: 4				G7	1657		Scr: Alpha: 6.01E-04 uCi/Sa Beta: -6.96E-04 uCi/Sa
6 **KPF2X-1-AD-X** J8F050319-1-DUP 06/05/2008 07:50		AmtRec: 20ML,3X4LP	#Containers: 4				~~G19~~ G5	2023		Scr: Alpha: 6.01E-04 uCi/Sa Beta: -6.96E-04 uCi/Sa
7 **KPF3F-1-AA** J8F050319-2-SAMP 06/05/2008 11:14		2000.20g,in AmtRec: 20ML,3X4LP	#Containers: 4				G11	1657	7/7/08 JM	Scr: Alpha: 7.29E-05 uCi/Sa Beta: 1.03E-03 uCi/Sa

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

6/27/2008 12:25:26 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 07/28/2008

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

Balance Id:1120482733

Pipet #: ______

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD

Batch: 8170553 WATER pCi/L PM, Quote: SS , 57671
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 KPLWM-1-AD J8F090197-1-SAMP 06/09/2008 10:18		2000.40g,in AmtRec: VIAL20,6XLP,3X4LP	#Containers: 10		200 mls	200	G11	1658	7/2/08 [illegible]	
Scr:								Alpha: 3.31E-03 uCi/Sa		Beta: 7.47E-04 uCi/Sa
9 KPLWR-1-AD J8F090197-2-SAMP 06/09/2008 10:18		2000.30g,in AmtRec: VIAL20,6XLP,3X4LP	#Containers: 10				G5	1659		
Scr:								Alpha: 8.26E-04 uCi/Sa		Beta: 3.47E-04 uCi/Sa
10 KP65W-1-AA-B J8F180000-553-BLK 06/05/2008 07:50		2000.10g,in AmtRec:	#Containers: 1				G15	1700		
Scr:								Alpha:		Beta:
11 KP65W-1-AC-C J8F180000-553-LCS 06/05/2008 07:50		2000.30g,in AmtRec:	QCAG1484 06/20/08,pd 02/16/08,r #Containers: 1				G13	2025	7/2/08 [illegible]	
Scr:								Alpha:		Beta:

Comments: KPF2X-SAMP "Comments: isv for gamma dup. Please recount on a different detector. DLH 6/27/08"

pH2.0 [illegible] 6/27/08

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

KPE1L1AD-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:

KP65W1AA-BLK:

TESTAMERICA

6/27/2008 12:25:27 PM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 07/28/2008

Sep1 DT/Tm Tech:

Batch: 8170553 **pCi/L**
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD

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

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

KP65W1AC-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						

KPE1L1AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KP65W1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

KP65W1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ **Date:** _____

150

7/15/2008 9:57:25 AM

ICOC Fraction Transfer/Status Report

ByDate: 7/16/2007, 7/20/2008, Batch: '8170553', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8170553						
AC		Rev1C	HarrisD	6/27/2008 12:11:32		
SC			wagarr	IsBatched	6/19/2008 8:30:57 AM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	6/27/2008 12:11:32 PM	RL-PRP-004 REVISION 0
SC			HarrisD	Prep1C	6/27/2008 12:25:29 PM	RL-PRP-004 REVISION 0
SC			BockJ	InPrep2	6/30/2008 7:22:13 AM	RL-GAM-001 REVISION 0
SC			BockJ	Prep2C	7/2/2008 1:27:08 PM	RL-GAM-001 REVISION 0
SC			ClarkR	InCnt1	7/2/2008 1:29:58 PM	RL-CI-007 REVISION 0
SC			DAWKINSO	CalcC	7/2/2008 10:09:02 PM	RL-CI-007 REVISION 0
SC			nortonj	Rev1C	7/15/2008 9:57:00 AM	RICH-RC-0002 REV 8
AC			HarrisD	6/27/2008 12:25:29		
AC			BockJ	6/30/2008 7:22:13		
AC			BockJ	7/2/2008 1:27:08 PM		
AC			ClarkR	7/2/2008 1:29:58 PM		
AC			DAWKINSO	7/2/2008 10:09:02 PM		
AC			nortonj	7/15/2008 9:57:00		

AC: Accepting Entry: SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.33

TESTAMERICA

6/30/2008 11:00:21 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 07/28/2008 WW5424

Sep1 DT/Tm Tech:

Batch: 8170550 **WATER** **pCi/L** **PM, Quote: SS , 57671**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 8170550 BNTB, 8170553 AWTA, 8170555 7YSR, 8170556 CYTM, 8170557 KOXW, 8170563 5SS3,

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 KPE1L-1-AE J8F050181-1-SAMP 06/04/2008 09:00		3881.30g,in AmtRec: VIAL20,6XLP,3X4LP #Containers: 10	ITA7371 06/16/08		36.3	100	L2	2328 Scr: Alpha: 8.40E-04 uCi/Sa	7/16/08 SD Beta: -4.47E-04 uCi/Sa	
2 KPE4X-1-AA J8F050191-1-SAMP 06/04/2008 10:33		3889.20g,in AmtRec: VIAL20,2X4LP #Containers: 3	ITA7372 06/16/08		35.4		L4	2330 Scr: Alpha: -1.55E-04 uCi/Sa	Beta: 9.50E-04 uCi/Sa	
3 KPE6D-1-AA J8F050195-1-SAMP 06/04/2008 12:49		3902.10g,in AmtRec: VIAL20,2X4LP #Containers: 3	ITA7373 06/16/08		34.6		L5	2331 Scr: Alpha: 1.46E-03 uCi/Sa	Beta: -4.64E-04 uCi/Sa	
4 KPE6P-1-AD J8F050195-2-SAMP 06/04/2008 08:25		3902.20g,in AmtRec: VIAL20,5XLP,3X4LP #Containers: 9	ITA7374 06/16/08		35.7		L2	0708 Scr: Alpha: 2.19E-03 uCi/Sa	7/17/08 SD Beta: -2.49E-03 uCi/Sa	
5 KPE7T-1-AD J8F050195-3-SAMP 06/04/2008 11:07		3872.50g,in AmtRec: VIAL20,8XLP,3X4LP #Containers: 12	ITA7375 06/16/08		35.0		L4	0704 Scr: Alpha: -7.63E-04 uCi/Sa	Beta: 1.71E-03 uCi/Sa	
6 KPF2X-1-AC J8F050319-1-SAMP 06/05/2008 07:50		3876.80g,in AmtRec: 20ML,3X4LP #Containers: 4	ITA7376 06/16/08		28.0		L5	0704 Scr: Alpha: 6.01E-04 uCi/Sa	Beta: -6.96E-04 uCi/Sa	
7 KPF3F-1-AC J8F050319-2-SAMP 06/05/2008 11:14		3870.20g,in AmtRec: 20ML,3X4LP #Containers: 4	ITA7377 06/16/08		33.4		L2	0854 Scr: Alpha: 7.29E-05 uCi/Sa	7/19/08 SD Beta: 1.03E-03 uCi/Sa	

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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

6/30/2008 11:00:23 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 07/28/2008

Sep1 DT/Tm Tech:

Batch: 8170550 **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 KPF4V-1-AA J8F050327-1-SAMP 06/05/2008 10:29		3895.00g,in AmtRec: 20ML,2X4LP #Containers: 3	ITA7378 06/16/08		35.4	100	L4	0548	7/17/08	
								Scr: Alpha: -4.14E-04 uCi/Sa		Beta: 5.97E-04 uCi/Sa
9 KPF46-1-AA J8F050327-2-SAMP 06/05/2008 09:44		3882.00g,in AmtRec: 20ML,2X4LP #Containers: 3	ITA7379 06/16/08		35.1		L5	0814		
								Scr: Alpha: 1.41E-03 uCi/Sa		Beta: 6.62E-05 uCi/Sa
10 KPLVT-1-AA J8F090190-1-SAMP 06/05/2008 10:56		3850.80g,in AmtRec: VIAL20,2X4LP #Containers: 3	ITA7380 06/16/08		33.0		L2	1034	7/17/08	
								Scr: Alpha: -2.43E-04 uCi/Sa		Beta: 9.50E-04 uCi/Sa
11 KPLWM-1-AE J8F090197-1-SAMP 06/09/2008 10:18		3899.50g,in AmtRec: VIAL20,6XLP,3X4LP #Containers: 10	ITA7381 06/16/08		32.9		L4	1035		
								Scr: Alpha: 3.31E-03 uCi/Sa		Beta: 7.47E-04 uCi/Sa
12 KPLWR-1-AE J8F090197-2-SAMP 06/09/2008 10:18		3891.50g,in AmtRec: VIAL20,6XLP,3X4LP #Containers: 10	ITA7382 06/16/08		35.6		L5	1036		
								Scr: Alpha: 8.26E-04 uCi/Sa		Beta: 3.47E-04 uCi/Sa
13 KPNDQ-1-AA J8F100266-1-SAMP 06/09/2008 10:24		3911.60g,in AmtRec: VIAL20,2X4LP #Containers: 3	ITA7383 06/16/08		36.2		L2	1219	7/17/08	
								Scr: Alpha: 1.63E-03 uCi/Sa		Beta: -1.11E-04 uCi/Sa
14 KPNDQ-1-AC-X J8F100266-1-DUP 06/09/2008 10:24		3877.00g,in AmtRec: VIAL20,2X4LP #Containers: 3	ITA7384 06/16/08		33.8		L4	1221		
								Scr: Alpha: 1.63E-03 uCi/Sa		Beta: -1.11E-04 uCi/Sa

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TESTAMERICA

6/30/2008 11:00:25 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 07/28/2008

Sep1 DT/Tm Tech:

Batch: 8170550 **WATER** **pCi/L**

PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 KPND3-1-AA J8F100266-2-SAMP 06/09/2008 10:24		3843.70g,in AmtRec: VIAL20,2X4LP #Containers: 3	ITA7385 06/16/08		30.6	100	L5	1221	7/17/08 MC	
							Scr:	Alpha: 1.51E-03 uCi/Sa	Beta: 1.66E-03 uCi/Sa	
16 KPND6-1-AA J8F100266-3-SAMP 06/09/2008 12:26		3871.20g,in AmtRec: VIAL20,2X4LP #Containers: 3	ITA7386 06/16/08		34.6		L2	1406	7/17/08 MC	
							Scr:	Alpha: -6.86E-04 uCi/Sa	Beta: 4.75E-03 uCi/Sa	1.5E-01L
17 KP65R-1-AA-B J8F180000-550-BLK 06/09/2008 10:24		3991.10g,in AmtRec: #Containers: 1	ITA7387 06/16/08		34.9		L4	1407		
							Scr:	Alpha:	Beta:	
18 KP65R-1-AC-C J8F180000-550-LCS 06/09/2008 10:24		3936.60g,in AmtRec: #Containers: 1	ISD0856 04/22/08		35.9		L5	1407		
							Scr:	Alpha:	Beta:	

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Comments: KPF2X-SAMP "Comments: isv for gamma dup. Please recount on a different detector. DLH 6/27/08"

DLH 6/30/08

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

KPE1L1AE-SAMP Constituent List:

I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:

KP65R1AA-BLK:

I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:

KP65R1AC-LCS:

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

KPE1L1AE-SAMP Calc Info:

6/30/2008 11:00:25 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 07/28/2008

Sep1 DT/Tm Tech:

Batch: 8170550 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

KP65R1AA-BLK:

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

KP65R1AC-LCS:

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

Approved By _____ Date: _____

ICOC Fraction Transfer/Status Report

ByDate: 7/19/2007, 7/23/2008, Batch: '8170550', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
8170550							
AC			Rev1C	HarrisD	6/30/2008 10:20:48		
SC				wagarr	IsBatched	6/19/2008 8:30:57 AM	ICOC_RADCALC v4.8.32
SC				HarrisD	InPrep	6/30/2008 10:20:48 AM	RL-PRP-004 REVISION 0
SC				HarrisD	Prep1C	6/30/2008 10:55:31 AM	RL-PRP-004 REVISION 0
SC				BostedD	Prep2C	7/16/2008 9:44:34 PM	RL-GAM-002 REVISION 0
SC				DAWKINSO	InCnt1	7/16/2008 9:50:55 PM	RL-CI-007 REVISION 0
SC				DAWKINSO	CalcC	7/17/2008 9:23:45 PM	RL-CI-007 REVISION 0
SC				nortonj	Rev1C	7/18/2008 11:48:55 AM	RICH-RC-0002 REV 8
AC				HarrisD	6/30/2008 10:55:31		
AC				BostedD	7/16/2008 9:44:34 PM		
AC				DAWKINSO	7/16/2008 9:50:55 PM		
AC				DAWKINSO	7/17/2008 9:23:45 PM		
AC				nortonj	7/18/2008 11:48:55		

AC: Accepting Entry, SC: Status Change

TESTAMERICA

7/9/2008 10:21:51 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 07/28/2008 (405424)

Sep1 DT/Tm Tech:

Batch: 8170552 WATER pCi/L

PM, Quote: SS , 57671

Scp2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: HarrisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KPE3X-1-AE J8F050186-2-SAMP 06/04/2008 12:40		500.10g,in AmtRec: 2X500MLP,2XLP,2X4LP	ITA7389 06/16/08 #Containers: 6		35.2	100	L4	1908 Scr: Alpha: -2.14E-03 uCi/Sa	7/14/0800 Beta: 2.40E-03 uCi/Sa	
2 KPE3X-1-AJ-X J8F050186-2-DUP 06/04/2008 12:40		500.50g,in AmtRec: 2X500MLP,2XLP,2X4LP	ITA7390 06/16/08 #Containers: 6		34.8		L5 Scr:	Alpha: -2.14E-03 uCi/Sa	Beta: 2.40E-03 uCi/Sa	
3 KP65V-1-AA-B J8F180000-552-BLK 06/04/2008 12:40		500.20g,in AmtRec:	ITA7391 06/16/08 #Containers: 1		35.4		L2 Scr:	Alpha:	Beta:	
4 KP65V-1-AC-C J8F180000-552-LCS 06/04/2008 12:40		500.00g,in AmtRec:	ISB0287 05/06/08 #Containers: 1		34.3		LH Scr:	2054 Alpha:	Beta:	

Comments: DH 7/9/08

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

KPE3X1AE-SAMP Constituent List:
I-129 RDL:5.00E+00 pCi/L LCL:70 UCL:130 RPD:20
KP65V1AA-BLK:
I-129 RDL:5.00E+00 pCi/L LCL: UCL: RPD:
KP65V1AC-LCS:
I-129 RDL:5 pCi/L LCL:70 UCL:130 RPD:20
KPE3X1AE-SAMP Calc Info:

7/9/2008 10:21:52 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 07/28/2008

Sep1 DT/Tm Tech:

Batch: 8170552 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
KP65V1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KP65V1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

7/15/2008 3:35 03 PM

ICOC Fraction Transfer/Status Report

ByDate: 7/16/2007, 7/20/2008, Batch: '8170552', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8170552						
AC		Rev1C	HarrisD	7/9/2008 10:10:34		
SC			wegarr	IsBatched	6/19/2008 8:30:57 AM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	7/9/2008 10:10:34 AM	RL-PRP-004 REVISION 0
SC			HarrisD	Prep1C	7/9/2008 10:21:53 AM	RL-PRP-004 REVISION 0
SC			BcstedD	Prep2C	7/14/2008 4:48:53 PM	RL-GAM-002 REVISION 0
SC			AshworthA	Prep2C	7/14/2008 4:49:05 PM	RL-GAM-002 REVISION 0
SC			DAWKINSO	InCnt1	7/14/2008 5:31:49 PM	RL-CI-007 REVISION 0
SC			nortonj	Rev1C	7/15/2008 3:34:59 PM	RICH-RC-0002 REV 8
AC			HarrisD	7/9/2008 10:21:53		
AC			BostedD	7/14/2008 4:48:53 PM		
AC			AshworthA	7/14/2008 4:49:05 PM		
AC			DAWKINSO	7/14/2008 5:31:49 PM		
AC			nortonj	7/15/2008 3:34:59 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.33

TESTAMERICA

6/25/2008 6:59:05 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 07/28/2008 WO5424

Sep1 DT/Tm Tech:

Batch: 8170556 **WATER** **pCi/L** **PM, Quote: SS , 57671**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 8170550 BNTB, 8170553 AWTA, 8170555 7YSR, 8170556 CYTM, 8170557 KOXW, 8170563 5SS3,

Prep Tech: ,HarrisD

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 **KPE1L-1-AF** J8F050181-1-SAMP 06/04/2008 09:00		200.30g,in AmtRec: VIAL20,6XLP,3X4LP #Containers: 10	SETA0272 06/24/08		50		Scr: Alpha: 8.40E-04 uCi/Sa		Beta: -4.47E-04 uCi/Sa
2 **KPE6P-1-AE** J8F050195-2-SAMP 06/04/2008 08:25		200.20g,in AmtRec: VIAL20,5XLP,3X4LP #Containers: 9	SETA0273 06/24/08				Scr: Alpha: 2.19E-03 uCi/Sa		Beta: -2.49E-03 uCi/Sa
3 **KPE7T-1-AE** J8F050195-3-SAMP 06/04/2008 11:07		199.90g,in AmtRec: VIAL20,8XLP,3X4LP #Containers: 12	SETA0274 06/24/08				Scr: Alpha: -7.63E-04 uCi/Sa		Beta: 1.71E-03 uCi/Sa
4 **KPLWM-1-AF** J8F090197-1-SAMP 06/09/2008 10:18		200.00g,in AmtRec: VIAL20,6XLP,3X4LP #Containers: 10	SETA0275 06/24/08				Scr: Alpha: 3.31E-03 uCi/Sa		Beta: 7.47E-04 uCi/Sa
5 **KPLWM-1-AH-X** J8F090197-1-DUP 06/09/2008 10:18		200.20g,in AmtRec: VIAL20,6XLP,3X4LP #Containers: 10	SETA0276 06/24/08				Scr: Alpha: 3.31E-03 uCi/Sa		Beta: 7.47E-04 uCi/Sa
6 **KPLWR-1-AF** J8F090197-2-SAMP 06/09/2008 10:18		200.30g,in AmtRec: VIAL20,6XLP,3X4LP #Containers: 10	SETA0277 06/24/08				Scr: Alpha: 8.26E-04 uCi/Sa		Beta: 3.47E-04 uCi/Sa
7 **KP651-1-AA-B** J8F180000-556-BLK 06/09/2008 10:18		200.10g,in AmtRec: #Containers: 1	SETA0278 06/24/08				Scr: Alpha:		Beta:

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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

6/25/2008 6:59:06 PM

Sample Preparation/Analysis

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

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

AnalyDueDate: 07/28/2008

Batch: 8170556 pCi/L
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 KP651-1-AC-BN					50				
J8F180000-556-IBLK									
06/09/2008 10:18	AmtRec:	#Containers: 1				Scr:	Alpha:		Beta:

Comments: PH2.0 Out 6/25/08

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

KPE1L1AF-SAMP Constituent List:
Se-79 RDL:3.00E+01 pCi/L LCL: UCL: RPD:
KP6511AA-BLK:
Se-79 RDL:3.00E+01 pCi/L LCL: UCL: RPD:
KP6511AC-IBLK:
Se-79 RDL:3.00E+01 pCi/L LCL: UCL: RPD:

KPE1L1AF-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KP6511AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KP6511AC-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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7/28/2008 2:17:56 PM

ICOC Fraction Transfer/Status Report

ByDate: 7/29/2007, 8/2/2008, Batch: '8170556', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8170556						
AC		Rev1C	HarrisD	6/25/2008 6:48:32 PM		
SC			wagarr	IsBatched	6/19/2008 8:30:57 AM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	6/25/2008 6:48:32 PM	RL-PRP-004 REVISION 0
SC			HarrisD	Prep1C	6/25/2008 6:56:45 PM	RL-PRP-004 REVISION 0
SC			ManisD	InSep1	7/2/2008 8:04:52 AM	LSC-012 REV 0
SC			BlackCL	InCnt1	7/3/2008 9:41:22 AM	RL-CI-005 REVISION 0
SC			BlackCL	CalcC	7/8/2008 9:44:15 AM	RL-CI-005 REVISION 0
SC			nortonj	Rev1C	7/28/2008 2:17:48 PM	RICH-RC-0002 REV 8
AC			HarrisD	6/25/2008 6:56:45 PM		
AC			ManisD	7/2/2008 8:04:52 AM		
AC			BlackCL	7/3/2008 9:41:22 AM		
AC			BlackCL	7/8/2008 9:44:15 AM		
AC			nortonj	7/28/2008 2:17:48 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RE-ANALYSIS REQUEST

DUE DATE 7-28

CUSTOMER PGW

ANALAYSIS Se 79

MATRIX H_2O

LOT NUMBER J8F050181, 050195, 090197

SAMPLE DELIVERY GROUP WO 5424

OLD BATCH NUMBER 8170556

NEW BATCH NUMBER 8197274

LAB SAMPLE ID	CLIENT ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1) KPEATIAE		LOW TRACER YIELD
2) KPLWM		
3) KPLWM DUP		
4) BLK		
5) LCS		
6) N BLK		
7)		
8)		
9)		
10)		
11)		
12)		
13)		
14)		
15)		
16)		
17)		
18)		
19)		
20)		
LAB QC ID		Assigned with new batch.

RC-048, 12/07, Rev 8

TESTAMERICA

7/15/2008 1:19:10 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 07/28/2008

Sep1 DT/Tm Tech:

Batch: 8197274 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	Tracer Yield	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments
1 **KPE7T-2-AE** J8F050195-3-SAMP 06/04/2008 11:07		200.40g,in AmtRec: VIAL20,8XLP,3X4LP #Containers: 12	SETA0284 07/14/08		50		Scr: Alpha: -7.63E-04 uCi/Sa Beta: 1.71E-03 uCi/Sa		
2 **KPLWM-2-AF** J8F090197-1-SAMP 06/09/2008 10:18		200.10g,in AmtRec: VIAL20,6XLP,3X4LP #Containers: 10	SETA0285 07/14/08				Scr: Alpha: 3.31E-03 uCi/Sa Beta: 7.47E-04 uCi/Sa		
3 **KPLWM-2-AH-X** J8F090197-1-DUP 06/09/2008 10:18		200.00g,in AmtRec: VIAL20,6XLP,3X4LP #Containers: 10	SETA0286 07/14/08				Scr: Alpha: 3.31E-03 uCi/Sa Beta: 7.47E-04 uCi/Sa		
4 **KRH8V-1-AA-B** J8G150000-274-BLK 06/04/2008 11:07		200.20g,in AmtRec: #Containers: 1	SETA0287 07/14/08				Scr: Alpha: Beta:		
5 **KRH8V-1-AC-C** J8G150000-274-LCS 06/04/2008 11:07		AmtRec: #Containers: 1					Scr: Alpha: Beta:		
6 **KRH8V-1-AD-BN** J8G150000-274-IBLK 06/04/2008 11:07		AmtRec: #Containers: 1					Scr: Alpha: Beta:		

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TAL Richland
Richland Wa.

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

ISV - Insufficient Volume for Analysis

WO Cnt: 6

Prep_SamplePrep v4.8.32

TESTAMERICA

7/15/2008 1:19:15 PM

Sample Preparation/Analysis

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

Balance Id:

Pipet #: _____

AnalyDueDate: 07/28/2008

Sep1 DT/Tm Tech:

Batch: 8197274 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	Tracer Yield	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

Comments: pH 2.0 DH 7/15/08

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

KPE7T2AE-SAMP Constituent List:

KRH8V1AA-BLK:

KRH8V1AC-LCS:

KRH8V1AD-IBLK:

KPE7T2AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KRH8V1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KRH8V1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KRH8V1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

7/28/2008 2:12:05 PM

ICOC Fraction Transfer/Status Report

ByDate: 7/29/2007, 8/2/2008, Batch: '8197274', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8197274						
AC		Rev1C	HarrisD	7/15/2008 1:15:36 PM		
SC			nortonj	IsBatched	7/15/2008 10:46:39 AM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	7/15/2008 1:15:36 PM	RL-PRP-004 REVISION 0
SC			HarrisD	Prep1C	7/15/2008 1:19:16 PM	RL-PRP-004 REVISION 0
SC			BlackCL	InCnt1	7/25/2008 7:32:50 AM	RL-CI-005 REVISION 0
SC			ClarkR	CalcC	7/28/2008 1:05:58 PM	RL-CI-005 REVISION 0
SC			nortonj	Rev1C	7/28/2008 2:12:00 PM	RICH-RC-0002 REV 8
AC			HarrisD	7/15/2008 1:19:16 PM		
AC			BlackCL	7/25/2008 7:32:50		
AC			ClarkR	7/28/2008 1:05:58 PM		
AC			nortonj	7/28/2008 2:12:00 PM		

AC: Accepting Entry; SC: Status Change

TESTAMERICA

6/24/2008 4:05:46 PM

Sample Preparation/Analysis

Balance Id:1120482733

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: 07/28/2008 WO5424

Sep1 DT/Tm Tech:

Batch: 8170559 **WATER** **pCi/L**

PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,HarrisD

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 KPE3X-1-AG J8F050186-2-SAMP 06/04/2008 12:40			125.30g,in AmtRec: 2X500MLP,2XLP,2X4LP #Containers: 6	125.30g		60				
								Scr:	Alpha: -2.14E-03 uCi/Sa	Beta: 2.40E-03 uCi/Sa
2 KPE3X-1-AM-S J8F050186-2-MS 06/04/2008 12:40			125.10g,in AmtRec: 2X500MLP,2XLP,2X4LP #Containers: 6	125.10g	TCSG2080 06/24/08,pd 01/10/06,r					
								Scr:	Alpha: -2.14E-03 uCi/Sa	Beta: 2.40E-03 uCi/Sa
3 KPE3X-1-AN-X J8F050186-2-DUP 06/04/2008 12:40			125.00g,in AmtRec: 2X500MLP,2XLP,2X4LP #Containers: 6	125.00g						
								Scr:	Alpha: -2.14E-03 uCi/Sa	Beta: 2.40E-03 uCi/Sa
4 KP654-1-AA-B J8F180000-559-BLK 06/04/2008 12:40			125.30g,in AmtRec: #Containers: 1	125.30g						
								Scr:	Alpha:	Beta:
5 KP654-1-AC-C J8F180000-559-LCS 06/04/2008 12:40			125.30g,in AmtRec: #Containers: 1	125.30g	TCSE2228 04/11/08,pd 01/10/06,r					
								Scr:	Alpha:	Beta:
6 KP654-1-AD-BN J8F180000-559-IBLK 06/04/2008 12:40			AmtRec: #Containers: 1							
								Scr:	Alpha:	Beta:

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TESTAMERICA

6/24/2008 4:05:48 PM

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: 07/28/2008

Batch: 8170559 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: pH<2.0 OUT 6/24/08

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

KPE3X1AG-SAMP Constituent List:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
KPE3X1AM-MS Constituent List:

KP6541AA-BLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
KP6541AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
KP6541AD-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:

KPE3X1AG-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KPE3X1AM-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KP6541AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KP6541AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KP6541AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

6/26/2008 4:01:38 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/27/2007, 7/1/2008, Batch: '8170559', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
8170559							
AC			Rev1C	HarrisD	6/24/2008 4:02:49 PM		
SC				wagarr	IsBatched	6/19/2008 8:30:57 AM	ICOC_RADCALC v4.8.32
SC				HarrisD	InPrep	6/24/2008 4:02:49 PM	RL-PRP-004 REVISION 0
SC				HarrisD	Prep1C	6/24/2008 4:05:47 PM	RL-PRP-004 REVISION 0
SC				Barcotl	InPrep	6/25/2008 10:26:58 AM	RL-LSC-014 REVISION 0
SC				Barcotl	Prep1C	6/25/2008 10:27:34 AM	RL-LSC-014 REVISION 0
SC				BlackCL	InCnt1	6/25/2008 10:29:14 AM	RL-CI-005 REVISION 0
SC				BlackCL	CalcC	6/26/2008 7:17:22 AM	RL-CI-005 REVISION 0
SC				antonsonl	Rev1C	6/26/2008 4:01:15 PM	RICH-RC-0002 REV 8
AC				HarrisD	6/24/2008 4:05:47 PM		
AC				Barcotl	6/25/2008 10:26:58		
AC				Barcotl	6/25/2008 10:27:34		
AC				BlackCL	6/25/2008 10:29:14		
AC				BlackCL	6/26/2008 7:17:22		
AC				antonsonl	6/26/2008 4:01:15 PM		

AC: Accepting Entry; SC: Status Change

TESTAMERICA

6/19/2008 8:25:30 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 07/28/2008 W0547Y

Batch: 8170562 **WATER** **pCi/L**

SEQ Batch, Test: None

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

PM, Quote: SS , 57671

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 6-10 0830 DM
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KPE3X-1-AA								
J8F050186-2-SAMP								
06/04/2008 12:40		AmtRec: 2X500MLP,2XLP,2X4LP	#Containers: 6			Scr:	Alpha: -2.14E-03 uCi/Sa	Beta: 2.40E-03 uCi/Sa
2 KPE3X-1-AR-X								
J8F050186-2-DUP								
06/04/2008 12:40		AmtRec: 2X500MLP,2XLP,2X4LP	#Containers: 6			Scr:	Alpha: -2.14E-03 uCi/Sa	Beta: 2.40E-03 uCi/Sa
3 KP657-1-AA-B								
J8F180000-562-BLK								
06/04/2008 12:40		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
4 KP657-1-AC-C								
J8F180000-562-LCS								
06/04/2008 12:40		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
5 KP657-1-AD-BX								
J8F180000-562-MBLK								
06/04/2008 12:40		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 KP657-1-AE-CM								
J8F180000-562-MLCS								
06/04/2008 12:40		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
7 KP657-1-AF-BN								
J8F180000-562-IBLK								
06/04/2008 12:40		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

6/19/2008 8:25:30 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 07/28/2008

Batch: 8170562 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 KP657-1-AG-BN								
J8F180000-562-IBLK								
06/04/2008 12:40	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments:

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

KPE3X1AA-SAMP Constituent List:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
KP6571AA-BLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
KP6571AC-LCS:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
KP6571AD-MBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
KP6571AE-MLCS:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
KP6571AF-IBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
KP6571AG-IBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:

KPE3X1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KP6571AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KP6571AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KP6571AD-MBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KP6571AE-MLCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KP6571AF-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

TESTAMERICA

6/19/2008 8:25:30 AM

Sample Preparation/Analysis

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

Balance Id:

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

AnalyDueDate: 07/28/2008

Batch: 8170562 **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:

KP6571AG-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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6/30/2008 8:58:32 AM

ICOC Fraction Transfer/Status Report

ByDate: 7/1/2007, 7/5/2008, Batch: '8170562', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
8170562							
AC			Rev1C	McDowellD	6/20/2008 8:47:42		
SC				wagarr	IsBatched	6/19/2008 8:30:57 AM	ICOC_RADCALC v4.8.32
SC				McDowellD	Sep1C	6/20/2008 8:47:42 AM	RL-LSC-005 REVISION 0
SC				BlackCL	CalcC	6/23/2008 6:10:32 AM	RL-CI-005 REVISION 0
SC				antonsonl	Rev1C	6/30/2008 8:58:07 AM	RICH-RC-0002 REV 8
AC				BlackCL	6/23/2008 6:10:32		
AC				antonsonl	6/30/2008 8:58:07		

AC: Accepting Entry; SC: Status Change

TESTAMERICA

6/19/2008 8:25:30 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 07/28/2008 WD5424

Batch: 8170563 **WATER** **pCi/L**
SEQ Batch, Test: None

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

PM, Quote: SS , 57671

Balance Id: N/A
Pipet #:
Sep1 DT/Tm Tech: 6-23-08 PM
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 KPE1L-1-AC								
J8F050181-1-SAMP								
06/04/2008 09:00		AmtRec: VIAL20,6XLP,3X4LP	#Containers: 10			Scr:	Alpha: 8.40E-04 uCi/Sa	Beta: -4.47E-04 uCi/Sa
2 KPE6P-1-AA								
J8F050195-2-SAMP								
06/04/2008 08:25		AmtRec: VIAL20,5XLP,3X4LP	#Containers: 9			Scr:	Alpha: 2.19E-03 uCi/Sa	Beta: -2.49E-03 uCi/Sa
3 KPE6P-1-AG-X								
J8F050195-2-DUP								
06/04/2008 08:25		AmtRec: VIAL20,5XLP,3X4LP	#Containers: 9			Scr:	Alpha: 2.19E-03 uCi/Sa	Beta: -2.49E-03 uCi/Sa
4 KPE7T-1-AA								
J8F050195-3-SAMP								
06/04/2008 11:07		AmtRec: VIAL20,8XLP,3X4LP	#Containers: 12			Scr:	Alpha: -7.63E-04 uCi/Sa	Beta: 1.71E-03 uCi/Sa
5 KPLWM-1-AC								
J8F090197-1-SAMP								
06/09/2008 10:18		AmtRec: VIAL20,6XLP,3X4LP	#Containers: 10			Scr:	Alpha: 3.31E-03 uCi/Sa	Beta: 7.47E-04 uCi/Sa
6 KPLWR-1-AC								
J8F090197-2-SAMP								
06/09/2008 10:18		AmtRec: VIAL20,6XLP,3X4LP	#Containers: 10			Scr:	Alpha: 8.26E-04 uCi/Sa	Beta: 3.47E-04 uCi/Sa
7 KP658-1-AA-B								
J8F180000-563-BLK								
06/04/2008 08:25		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

TAL Richland
Richland Wa.

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

ISV - Insufficient Volume for Analysis

WO Cnt: 7
ICOC v4.8.32

TESTAMERICA

6/19/2008 8:25:31 AM

Sample Preparation/Analysis

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

Balance Id: WA
Pipet #:
Sep1 DT/Tm Tech: 6-23-08 am
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 07/28/2008

Batch: 8170563 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 KP658-1-AC-C J8F180000-563-LCS 06/04/2008 08:25		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
9 KP658-1-AD-BN J8F180000-563-IBLK 06/04/2008 08:25		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

175

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

KPE1L1AC-SAMP Constituent List:
C-14 RDL:2.00E+02 pCi/L LCL:70 UCL:130 RPD:20
KP6581AA-BLK:
C-14 RDL:2.00E+02 pCi/L LCL: UCL: RPD:
KP6581AC-LCS:
C-14 RDL:200 pCi/L LCL:70 UCL:130 RPD:20
KP6581AD-IBLK:
C-14 RDL:2.00E+02 pCi/L LCL: UCL: RPD:

KPE1L1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KP6581AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KP6581AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KP6581AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

6/25/2008 11:03 49 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/26/2007, 6/30/2008, Batch: '8170563', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8170563						
AC		Rev1C	McDowellD	6/23/2008 8:49:54		
SC			wagarr	IsBatched	6/19/2008 8:30:57 AM	ICOC_RADCALC v4.8.32
SC			McDowellD	InSep1	6/23/2008 8:49:54 AM	RL-LSC-008 REVISION 0
SC			McDowellD	Sep1C	6/23/2008 2:14:06 PM	RL-LSC-008 REVISION 0
SC			ClarkR	InCnt1	6/23/2008 2:28:43 PM	RL-CI-005 REVISION 0
SC			ClarkR	CalcC	6/24/2008 8:52:56 AM	RL-CI-005 REVISION 0
SC			antonsonl	Rev1C	6/25/2008 11:03:40 AM	RICH-RC-0002 REV 8
AC			McDowellD	6/23/2008 2:14:06 PM		
AC			ClarkR	6/23/2008 2:28:43 PM		
AC			ClarkR	6/24/2008 8:52:56		
AC			antonsonl	6/25/2008 11:03:40		

AC: Accepting Entry; SC: Status Change

TESTAMERICA

6/27/2008 11:00:03 AM

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: 07/28/2008 WD5424

Sep1 DT/Tm Tech:

Batch: 8170558 **WATER** **ug/L** **PM, Quote: SS , 57671**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 8170552 BNTB, 8170553 AWTA, 8170554 CLTL, 8170558 DHSS, 8170559 FPS5, 8170560 AZS7, 8170561 BCS8, 8170562 ARS6,

Prep Tech: ,HarrisD| Bock

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 KPE3X-1-AH J8F050186-2-SAMP 06/04/2008 12:40		25.10g,in AmtRec: 2X500MLP,2XLP,2X4LP	#Containers: 6			Scr:	Alpha: -2.14E-03 uCi/Sa	Beta: 2.40E-03 uCi/Sa
2 KPE3X-1-AK-S J8F050186-2-MS 06/04/2008 12:40		25.10g,in AmtRec: 2X500MLP,2XLP,2X4LP	UNSF4249 05/22/08,pd #Containers: 6			Scr:	Alpha: -2.14E-03 uCi/Sa	Beta: 2.40E-03 uCi/Sa
3 KPE3X-1-AL-X J8F050186-2-DUP 06/04/2008 12:40		25.10g,in AmtRec: 2X500MLP,2XLP,2X4LP	#Containers: 6			Scr:	Alpha: -2.14E-03 uCi/Sa	Beta: 2.40E-03 uCi/Sa
4 KP653-1-AA-B J8F180000-558-BLK 06/04/2008 12:40		25.40g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
5 KP653-1-AC-C J8F180000-558-LCS 06/04/2008 12:40		24.90g,in AmtRec:	UNSF4250 05/22/08,pd #Containers: 1			Scr:	Alpha:	Beta:
6 KP653-1-AD-C J8F180000-558-LCS 06/04/2008 12:40		25.20g,in AmtRec:	UNSC2528 05/22/08,pd #Containers: 1			Scr:	Alpha:	Beta:

TESTAMERICA

178

6/27/2008 11:00:04 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: ____________

AnalyDueDate: 07/28/2008

Sep1 DT/Tm Tech:

Batch: 8170558 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: PH2O ~~6/26/08~~ [initials] 6/27/08 [initials] 6/27/08

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

KPE3X1AH-SAMP Constituent List:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
KPE3X1AK-MS Constituent List:

KP6531AA-BLK:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
KP6531AC-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20
KP6531AD-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20

KPE3X1AH-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KPE3X1AK-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KP6531AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KP6531AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KP6531AD-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By ____________________ Date: ____________

7/21/2008 2:22:55 PM

ICOC Fraction Transfer/Status Report

ByDate: 7/22/2007, 7/26/2008, Batch: '8170558', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting		Comments
8170558						
AC			Rev1C	HarrisD	6/27/2008 10:54:13	
SC				waçarr	IsBatched 6/19/2008 8:30:57 AM	ICOC_RADCALC v4.8.32
SC				HarrisD	InPrep 6/27/2008 10:54:13 AM	RICH-RC-5014 REVISION 0
SC				HarrisD	Prep1C 6/27/2008 10:57:24 AM	RL-PRP-004 REVISION 0
SC				BockJ	InPrep2 7/15/2008 12:45:20 PM	RL-KPA-001 REVISION 0
SC				BockJ	Prep2C 7/18/2008 8:35:14 AM	RL-KPA-001 REVISION 0
SC				NelsonT	Cnt1C 7/21/2008 10:11:21 AM	RL-KPA-003 REVISION 0
SC				nortonj	Rev1C 7/21/2008 2:22:06 PM	RICH-RC-0002 REV 8
AC				HarrisD	6/27/2008 10:57:24	
AC				BockJ	7/15/2008 12:45:20	
AC				BockJ	7/18/2008 8:35:14	
AC				NelsonT	7/21/2008 10:11:21	
AC				nortonj	7/21/2008 2:22:06 PM	

AC: Accepting Entry; SC: Status Change

ENTERED SCS 7/16/08

TESTAMERICA

7/8/2008 3:07:47 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 07/28/2008 WO 5424

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

Batch: 8170564 WATER
SEQ Batch, Test: None All Tests: 8170564 88IZ,

PM, Quote: SS , 57671

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

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

1 KPF3R-1-AA

J8F050322-1-SAMP

06/05/2008 12:10 AmtRec: 20ML,500MLP #Containers: 2 Scr: Alpha: -8.40E-05 uCi/Sa Beta: 4.83E-05 uCi/Sa

2 KPF3R-1-AC-X

J8F050322-1-DUP

06/05/2008 12:10 AmtRec: 20ML,500MLP #Containers: 2 Scr: Alpha: -8.40E-05 uCi/Sa Beta: 4.83E-05 uCi/Sa

3 KP659-1-AA-B

J8F180000-564-BLK

06/11/2008 11:58 AmtRec: #Containers: 1 Scr: Alpha: Beta:

4 KP659-1-AC-C

J8F180000-564-LCS

06/11/2008 11:58 AmtRec: #Containers: 1 Scr: Alpha: Beta:

180

Comments:

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

KPF3R1AA-SAMP Constituent List:

KP6591AA-BLK:

KP6591AC-LCS:

KPF3R1AA-SAMP Calc Info:

7/8/2008 3:07:49 PM

Sample Preparation/Analysis

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

AnalyDueDate: 07/28/2008

Batch: 8170564
SEQ Batch, Test: None

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

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

Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KP6591AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KP6591AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

Entered SKS 7/16/08

TESTAMERICA

7/8/2008 3:07:49 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 07/28/2008 WO5124

Batch: 8190389 WATER
SEQ Batch, Test: None

PM, Quote: SS , 57671

Balance Id:
Pipet #: _____
Sep1 DT/Tm Tech:
Sep2 DT/Tm Toch:
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 KPNCT-1-AA

J8F100263-1-SAMP

06/10/2008 10:15 AmtRec: VIAL20,500MLP #Containers: 2 Scr: Alpha: 3.64E-05 uCi/Sa Beta: 1.86E-04 uCi/Sa

2 KPNCT-1-AC-X

J8F100263-1-DUP

06/10/2008 10:15 AmtRec: VIAL20,500MLP #Containers: 2 Scr: Alpha: 3.64E-05 uCi/Sa Beta: 1.86E-04 uCi/Sa

3 KQ7F9-1-AA-B

J8G080000-389-BLK

06/10/2008 10:15 AmtRec: #Containers: 1 Scr: Alpha: Beta:

4 KQ7F9-1-AC-C

J8G080000-389-LCS

06/10/2008 10:15 AmtRec: #Containers: 1 Scr: Alpha: Beta:

Comments:

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

KPNCT1AA-SAMP Constituent List:

KQ7F91AA-BLK:

KQ7F91AC-LCS:

KPNCT1AA-SAMP Calc Info:

182

Sample Preparation/Analysis

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

AnalyDueDate: 07/28/2008

Batch: 8190389
SEQ Batch, Test: None

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

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

Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KQ7F91AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KQ7F91AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

ENTERed SES 7/16/08

TESTAMERICA

7/8/2008 3:07:50 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 07/28/2008 WO5124

Batch: 8190391 WATER
SEQ Batch, Test: None

PM, Quote: SS , 57671

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

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

1 KPQWR-1-AA

J8F110338-1-SAMP

06/11/2008 11:58 AmtRec: VIAL20,500MLP #Containers: 2 Scr: Alpha: 5.94E-05 uCi/Sa Beta: 6.14E-05 uCi/Sa

2 KPQWR-1-AC-X

J8F110338-1-DUP

06/11/2008 11:58 AmtRec: VIAL20,500MLP #Containers: 2 Scr: Alpha: 5.94E-05 uCi/Sa Beta: 6.14E-05 uCi/Sa

3 KQ7GE-1-AA-B

J8G080000-391-BLK

06/11/2008 11:58 AmtRec: #Containers: 1 Scr: Alpha: Beta:

4 KQ7GE-1-AC-C

J8G080000-391-LCS

06/11/2008 11:58 AmtRec: #Containers: 1 Scr: Alpha: Beta:

Comments:

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

KPQWR1AA-SAMP Constituent List:

KQ7GE1AA-BLK:

KQ7GE1AC-LCS:

KPQWR1AA-SAMP Calc Info:

Sample Preparation/Analysis

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

AnalyDueDate: 07/28/2008

Batch: 8190391
SEQ Batch, Test: None

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

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

Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KQ7GE1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KQ7GE1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____