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0079524

Analytical Data Package Prepared For

Fluor Hanford Inc.

Radiochemical Analysis By

TestAmerica

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

Assigned Laboratory Code: TARL

Data Package Contains _____ Pages

Report No.: 38908

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

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
W05371	F08-085	B1TPN8	J8D090332-1	KK1LK1AA	9KK1LK10	8101164
		B1TPN8	J8D090332-1	KK1LK1AC	9KK1LK10	8101330
		B1TPN8	J8D090332-1	KK1LK1AK	9KK1LK10	8101334
		B1TPN8	J8D090332-1	KK1LK1AE	9KK1LK10	8101335

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Fluor Hanford, Inc.
1200 Jadwin Ave.
Richland, WA 99352

April 30, 2008

Attention: Steve Trent

SAF Number	:	F08-085
Date SDG Closed	:	April 9, 2008
Number of Samples	:	One (1)
Sample Type	:	Water
SDG Number	:	W05371
Data Deliverable	:	30/45 Day

CASE NARRATIVE

I. Introduction

On April 9, 2008 one sample was received at TestAmerica for radiochemical analysis. Upon receipt, the sample was assigned to lot J8D090332 and assigned the following laboratory ID number to correspond with the Fluor Hanford (FH) specific ID:

FH ID#	STLR ID#	MATRIX	DATE OF RECEIPT
B1TPN8	KK1LK	WATER	4/09/08

II. Sample Receipt

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

III. Analytical Results/Methodology

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

The requested analyses were:

Gas Proportional Counting
Gross Alpha by method RICH-RC-5014
Gross Beta by method RICH-RC-5014
Strontium-90 by method RICH-RC-5006
Liquid Scintillation Counting
Tritium by method RICH-RC-5007
Chemical Analysis
Hexavalent Chromium by EPA method 7196A

IV. Quality Control

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

QC and sample results are reported in the same units.

V. Comments

Gas Proportional Counting
Gross Alpha by method RICH-RC-5014:
The LCS, batch blank, sample and sample duplicate (B1TPN8) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:
The LCS, batch blank, sample and sample duplicate (B1TPN8) results are within contractual requirements.

Gas Proportional Counting
Strontium-90 by method RICH-RC-5006
The LCS, batch blank, samples and sample duplicate (B1TPN8) results are within contractual requirements.

Liquid Scintillation Counting
Tritium by method RICH-RC-5007:
The LCS, batch blank, samples and sample duplicate (B1TPN8) results are within contractual requirements.

Chemical Analysis
Hexavalent Chromium by EPA method 7196A
The LCS, batch blank, samples, sample duplicate (B1TPN8), sample matrix spike (B1TPN8), and matrix spike duplicate results (B1TPN8) are within contractual requirements.

Fluor Hanford, Inc.
April 30, 2008

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.

Sample Results Summary

Date: 30-Apr-08

TestAmerica TARL

Ordered by Method, Batch No., Client Sample ID.

Report No. : 38908

SDG No: W05371

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
8101334 SRTOT_SEP_PRECIP_GPC									
B1TPN8									
	KK1LK1AK	STRONTIUM	7.33E-01 +- 5.26E-01	U	pCi/L	97%	9.68E-01		
B1TPN8 DUP									
	KK1LK1AM	STRONTIUM	9.14E-01 +- 5.34E-01		pCi/L	99%	9.08E-01		22.1
8101164 BETA_GPC									
B1TPN8									
	KK1LK1AA	BETA	3.46E+00 +- 1.56E+00		pCi/L	100%	2.76E+00	4.00E+00	
	KK1LK1AJ	BETA	5.64E+00 +- 1.83E+00		pCi/L	100%	2.64E+00	4.00E+00	48.0
8101335 RICHRC5014									
B1TPN8									
	KK1LK1AE	ALPHA	1.42E+00 +- 1.18E+00	U	pCi/L	100%	1.95E+00	3.00E+00	
B1TPN8 DUP									
	KK1LK1AN	ALPHA	8.98E-01 +- 9.54E-01	U	pCi/L	100%	1.68E+00	3.00E+00	45.1
8101164 7196_CR6									
B1TPN8									
	KK1LK1AA	HEXCHROME	6.00E-03 +- 0.00E+00		mg/L	N/A	2.00E-03		
	KK1LK1AJ	HEXCHROME	6.00E-03 +- 0.00E+00		mg/L	N/A	2.00E-03		0.0
8101330 906.0_H3_LSC									
B1TPN8									
	KK1LK1AC	H-3	1.38E+02 +- 1.54E+02	U	pCi/L	100%	3.01E+02	4.00E+02	
B1TPN8 DUP									
	KK1LK1AL	H-3	-1.36E+01 +- 1.46E+02	U	pCi/L	100%	2.91E+02	4.00E+02	243.8

No. of Results: 10

TestAmerica

rptSTLRchSaSummary2 V5.1.6
A2002

RPD - Relative Percent Difference.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

QC Results Summary

Date: 30-Apr-08

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 38908

SDG No.: W05371

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
SRTOT_SEP_PRECIP_GPC								
8101334 BLANK QC,								
KK3GE1AA	STRONTIUM	2.57E-01 +- 4.58E-01	U	pCi/L	89%			9.66E-01
8101334 LCS,								
KK3GE1AC	STRONTIUM	2.81E+01 +- 7.50E+00		pCi/L	89%	106%	0.1	9.46E-01
BETA_GPC								
8101164 LCS,								
KK2Q91AC	BETA	2.20E+01 +- 3.73E+00		pCi/L	100%	98%	0.0	2.69E+00
8101164 BLANK QC,								
KK2Q91AA	BETA	-7.25E-02 +- 1.24E+00	U	pCi/L	100%			2.80E+00
RICHRC5014								
8101335 BLANK QC,								
KK3GL1AA	ALPHA	-1.74E-01 +- 4.05E-01	U	pCi/L	100%			1.38E+00
8101335 LCS,								
KK3GL1AC	ALPHA	1.78E+01 +- 3.88E+00		pCi/L	100%	79%	-0.2	9.89E-01
7196_CR6								
8101164 MATRIX SPIKE, B1TPN8								
KK1LK1AG	HEXCHROME	5.06E-01 +- 0.00E+00		mg/L	N/A	96%	0.0	2.00E-03
KK1LK1AH	HEXCHROME	5.14E-01 +- 0.00E+00		mg/L	N/A	98%	0.0	2.00E-03
8101164 LCS,								
KK2Q91AC	HEXCHROME	4.91E-01 +- 0.00E+00		mg/L	N/A	98%	0.0	2.00E-03
8101164 BLANK QC,								
KK2Q91AA	HEXCHROME	2.00E-03 +- 0.00E+00	U	mg/L	N/A			2.00E-03
906.0_H3_LSC								
8101330 BLANK QC,								
KK3FM1AA	H-3	1.11E+02 +- 1.56E+02	U	pCi/L	100%			3.17E+02
8101330 LCS,								
KK3FM1AC	H-3	2.05E+03 +- 2.30E+02		pCi/L	100%	75%	-0.2	2.98E+02

No. of Results: 12

TestAmerica

rptSTLRchQcSummary V5.1.6 A2002

Bias - (Result/Expected)-1 as defined by ANSI N13.30.

U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

TESTAMERICA

FORM I

SAMPLE RESULTS

Date: 30-Apr-08

Lab Name:	TestAmerica	**SDG:**	W05371	**Collection Date:**	4/9/2008 10:37:00 AM
Lot-Sample No.:	J8D090332-1	**Report No. :**	38908	**Received Date:**	4/9/2008 2:20:00 PM
Client Sample ID:	B1TPN8	**COC No. :**	F08-085-011	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysis, Frep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8101164	BETA_GPC			**Work Order:** KK1LK1AA			**Report DB ID:** 9KK1LK10					
BETA	***3.46E+00***		1.5E+00	1.6E+00	2.76E+00	pCi/L	100%	*(1.3)*	4/24/08 06:32 p		0.2002	GPC28A
						1.31E+00	4.00E+00	*(4.4)*			L	
HEXCHROME	***6.00E-03***			0.0E+00	2.00E-03	mg/L	N/A	*(3.)*	4/9/08		100.0	
								N/A			ML	
Batch: 8101330	906.0_H3_LSC			**Work Order:** KK1LK1AC			**Report DB ID:** 9KK1LK10					
H-3	***1.38E+02***	U	1.3E+02	1.5E+02	3.01E+02	pCi/L	100%	*0.46*	4/25/08 09:52 a		0.005	LSC3
						1.44E+02	4.00E+02	*(1.8)*			L	
Batch: 8101334	SRTOT_SEP_PRECIP_GPC			**Work Order:** KK1LK1AK			**Report DB ID:** 9KK1LK10					
STRONTIUM	***7.33E-01***	U	4.9E-01	5.3E-01	9.68E-01	pCi/L	97%	*0.76*	4/23/08 07:53 p		0.5	GPC32A
						4.60E-01		*(2.8)*			L	
Batch: 8101335	srs 4/30/08 ~~RIGHRC5014~~ Alpha_GPC			**Work Order:** KK1LK1AE			**Report DB ID:** 9KK1LK10					
ALPHA	***1.42E+00***	U	1.2E+00	1.2E+00	1.95E+00	pCi/L	100%	*0.73*	4/24/08 05:54 p		0.2002	GPC12C
						7.67E-01	3.00E+00	*(2.4)*			L	

No. of Results: 5 **Comments:**

TestAmerica
rptSTLRchSample
V5.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

TESTAMERICA

FORM II

Date: 30-Apr-08

DUPLICATE RESULTS

Lab Name:	**TestAmerica**	**SDG:**	W05371	**Collection Date:**	4/9/2008 10:37:00 AM
Lot-Sample No.:	**J8D090332-1**	**Report No. :**	38908	**Received Date:**	4/9/2008 2:20:00 PM
Client Sample ID:	**B1TPN8**	**COC No. :**	F08-085-011	**Matrix:**	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8101164	BETA_GPC			**Work Order:** KK1LK1AJ		**Report DB ID:** KK1LK1JR			**Orig Sa DB ID:** 9KK1LK10			
BETA	5.64E+00		1.6E+00	1.8E+00	2.64E+00	pCi/L	100%	(2.1)	4/24/08 06:32 p		0.2	GPC28B
	3.46E+00		**RPD**	**48.0**		4.00E+00		(6.2)			L	
HEXCHROME	6.00E-03			0.0E+00	2.00E-03	mg/L	N/A	(3.)	4/9/08		100.0	
	6.00E-03		**RPD**	**0.0**				N/A			ML	

No. of Results: 2 **Comments:**

10

TestAmerica
rptSTLRchDupV5.1
.6 A2002

RPD - Relative Percent Difference.
MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.

TESTAMERICA

FORM II

Date: 30-Apr-08

DUPLICATE RESULTS

Lab Name:	TestAmerica	SDG:	W05371	Collection Date:	4/9/2008 10:37:00 AM
Lot-Sample No.:	J8D090332-1	Report No. :	38908	Received Date:	4/9/2008 2:20:00 PM
Client Sample ID:	B1TPN8 DUP	COC No. :	F08-085-011	Matrix:	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8101330	906.0_H3_LSC			Work Order: KK1LK1AL		Report DB ID: KK1LK1LR			Orig Sa DB ID: 9KK1LK10			
H-3	-1.36E+01	U	1.2E+02	1.5E+02	2.91E+02	pCi/L	100%	-0.05	4/25/08 11:15 a		0.005	LSC3
	1.38E+02	U	RPD	243.8		4.00E+02		-0.19			L	
Batch: 8101334	SRTOT_SEP_PRECIP_GPC			Work Order: KK1LK1AM		Report DB ID: KK1LK1MR			Orig Sa DB ID: 9KK1LK10			
STRONTIUM	9.14E-01		4.8E-01	5.3E-01	9.08E-01	pCi/L	99%	(1.)	4/23/08 07:53 p		0.5002	GPC32C
	7.33E-01	U	RPD	22.1				(3.4)			L	
	SK 5/1 30/08											
Batch: 8101335	~~RICHRC5014~~ Alpha-GPC			Work Order: KK1LK1AN		Report DB ID: KK1LK1NR			Orig Sa DB ID: 9KK1LK10			
ALPHA	8.98E-01	U	9.4E-01	9.5E-01	1.68E+00	pCi/L	100%	0.53	4/24/08 05:54 p		0.2001	GPC12D
	1.42E+00	U	RPD	45.1		3.00E+00		(1.9)			L	

No. of Results: 3 Comments:

TestAmerica
rptSTLRchDupV5.1
.6 A2002

RPD - Relative Percent Difference.
MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

TESTAMERICA

FORM II

BLANK RESULTS

Date: 30-Apr-08

Lab Name: TestAmerica

Matrix: WATER

SDG: W05371

Report No. : 38908

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA ,	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8101164	7196_CR6			**Work Order:**	KK2Q91AA		**Report DB ID:**	KK2Q91AB				
HEXCHROME	2.00E-03	U		0.0E+00	2.00E-03	mg/L	N/A	1.	4/9/08		100.0	
								N/A			ML	
Batch: 8101330	906.0_H3_LSC			**Work Order:**	KK3FM1AA		**Report DB ID:**	KK3FM1AB				
H-3	1.11E+02	U	1.3E+02	1.6E+02	3.17E+02	pCi/L	100%	0.35	4/25/08 07:07 a		0.005	LSC3
					1.51E+02	4.00E+02		(1.4)			L	
Batch: 8101335	SRS 4/30/08 ~~RICHRC5014~~ Alpha-GPC			**Work Order:**	KK3GL1AA		**Report DB ID:**	KK3GL1AB				
ALPHA	-1.74E-01	U	4.0E-01	4.1E-01	1.38E+00	pCi/L	100%	-0.13	4/24/08 05:54 p		0.2001	GPC11A
					5.43E-01	3.00E+00		-0.86			L	
Batch: 8101164	BETA_GPC			**Work Order:**	KK2Q91AA		**Report DB ID:**	KK2Q91AB				
BETA	-7.25E-02	U	1.2E+00	1.2E+00	2.80E+00	pCi/L	100%	-0.03	4/24/08 06:32 p		0.1999	GPC28C
					1.33E+00	4.00E+00		-0.12			L	
Batch: 8101334	SRTOT_SEP_PRECIP_GPC			**Work Order:**	KK3GE1AA		**Report DB ID:**	KK3GE1AB				
STRONTIUM	2.57E-01	U	4.5E-01	4.6E-01	9.66E-01	pCi/L	89%	0.27	4/23/08 07:53 p		0.5001	GPC27B
					4.59E-01	5.00E+00		(1.1)			L	

No. of Results: 5 **Comments:**

TestAmerica
rptSTLRchBlank
V5.1.6 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

TESTAMERICA

FORM II

LCS RESULTS

Date: 30-Apr-08

Lab Name: TestAmerica

Matrix: WATER

SDG: W05371

Report No. : 38908

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC | MDA	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 8101164	7196_CR6			**Work Order:**	KK2Q91AC		**Report DB ID:**	KK2Q91AS					
HEXCHROME	4.91E-01			0.0E+00	2.00E-03	mg/L	N/A	5.00E-01		98%	4/9/08	100.0	
							Rec Limits:	70	130	0.0		ML	
Batch: 8101330	906.0_H3_LSC			**Work Order:**	KK3FM1AC		**Report DB ID:**	KK3FM1CS					
H-3	2.05E+03		1.9E+02	2.3E+02	2.98E+02	pCi/L	100%	2.71E+03	8.14E+01	75%	4/25/08 08:29 a	0.005	LSC3
							Rec Limits:	70	130	-0.2		L	
Batch: 8101335	SRS 4/30/08 ~~RICHRC5014~~ Alpha-GPC			**Work Order:**	KK3GL1AC		**Report DB ID:**	KK3GL1CS					
ALPHA	1.78E+01		2.8E+00	3.9E+00	9.89E-01	pCi/L	100%	2.27E+01	3.33E-01	79%	4/24/08 05:54 p	0.2002	GPC11D
							Rec Limits:	75	125	-0.2		L	
Batch: 8101164	BETA_GPC			**Work Order:**	KK2Q91AC		**Report DB ID:**	KK2Q91CS					
BETA	2.20E+01		2.5E+00	3.7E+00	2.69E+00	pCi/L	100%	2.24E+01	2.59E-01	98%	4/24/08 06:32 p	0.2001	GPC28D
							Rec Limits:	70	130	0.0		L	
Batch: 8101334	SRTOT_SEP_PRECIP_GPC			**Work Order:**	KK3GE1AC		**Report DB ID:**	KK3GE1CS					
STRONTIUM	2.81E+01		1.5E+00	7.5E+00	9.46E-01	pCi/L	89%	2.65E+01	5.21E-01	106%	4/23/08 07:53 p	0.5	GPC27A
							Rec Limits:	75	125	0.1		L	

No. of Results: 5 **Comments:**

13

TESTAMERICA

FORM II

MATRIX SPIKE RESULTS

Date: 30-Apr-08

Lab Name: TestAmerica **SDG:** W05371

Lot-Sample No.: J8D090332-1, B1TPN8 **Report No. :** 38908 **Matrix:** WATER

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC|MDA	Rpt Unit, CRDL	Yield	Rec-overy	Exp-ected	Exp Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 8101164	Work Order: KK1LK1AG			Report DB ID: KK1LK1GW			Orig Sa DB ID: 9KK1LK10						
HEXCHROME	5.06E-01			0.0E+00	2.00E-03	mg/L	N/A	96.20%	5.26E-01		4/9/08	100.0	7196_CR6
	6.00E-03											ML	
Batch: 8101164	Work Order: KK1LK1AH			Report DB ID: KK1LK1HW			Orig Sa DB ID: KK1LK1GW						
HEXCHROME	5.14E-01			0.0E+00	2.00E-03	mg/L	N/A	97.72%	5.26E-01		4/9/08	100.0	7196_CR6
	5.06E-01											ML	

Number of Results: 2

Comments:

TestAmerica
rptSTLRchMs
V5.1.6 A2002

RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
Bias - (Result/Expected)-1 as defined by ANSI N13.30.

TestAmerica

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/28/2008 2:27:33 PM

Lot No., Due Date: J8D090332; 05/09/2008

Client, Site: 108302; FLH HANFORD

QC Batch No., Method Test: 8101335; RALPHATH Alpha by GPC-Th

SDG, Matrix: W05371; WATER

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

6.0 Comments on any No response:

First Level Review Lisa Anderson **Date** 4/28/08

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8D1335

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: 4/28/18

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/28/2008 2:32:32 PM

Lot No., Due Date: J8D090332; 05/09/2008

Client, Site: 108302; FLH HANFORD

QC Batch No., Method Test: 8101164; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05371; WATER

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

6.0 Comments on any No response:

First Level Review Lisa Quinton **Date** 4/28/08

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8701164

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: 4/28/8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/28/2008 2:40:02 PM

Lot No., Due Date: J8D090332; 05/09/2008

Client, Site: 108302; FLH HANFORD

QC Batch No., Method Test: 8101334; RSRTOT SrTot by GPC

SDG, Matrix: W05371; WATER

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 4-28-8

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8101334

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

Comments on any "No" response: _____

Second Level Review: Erika Good Date: 4/28/15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/28/2008 2:32:17 PM

Lot No., Due Date: J8D090332; 05/09/2008

Client, Site: 108302; FLH HANFORD

QC Batch No., Method Test: 8101330; RTRITIUM H-3 by LSC

SDG, Matrix: W05371; WATER

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 4-28-8

TAL Richland
QAS_RADCALC\4.8.33

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8D1330

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: 4/28/15

ENTERED 4-23-08
SKS

TestAmerica

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Numbers(s): 8101164 J8D090332

Lab Sample Numbers or 1205371 SKS 4/10/08

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

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

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

Comments on any "No" response:

Analyst: [signature] Date: 4/10/08

Second-Level Review: [signature] Date: 4/30/08

TESTAMERICA

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-085-011

COLLECTOR
NCO Sampler M. A. White

COMPANY CONTACT
Trent, SJ

TELEPHONE NO.
373-5869

PROJECT COORDINATOR
TRENT, SJ

PRICE CODE 7M

DATA TURNAROUND
30 Days / 45 Days

AIR QUALITY ☐

SAMPLING LOCATION
F-C6307-D

PROJECT DESIGNATION
Aquifer Tube Installation Sampling and Analysis in the 100-FR-3 OU

SAF NO.
F08-085

ICE CHEST NO.

FIELD LOGBOOK NO.
HNF-AV-451-3

ACTUAL SAMPLE DEPTH
16.38'

COA
123632ES10

METHOD OF SHIPMENT
GOVERNMENT VEHICLE

SHIPPED TO
TestAmerica Incorporated, Richland

OFFSITE PROPERTY NO.
N/A

BILL OF LADING/AIR BILL NO.
N/A

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

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 HANDLING AND/OR STORAGE

PRESERVATION		Cool~4C	HNO3 to pH <2	HNO3 to pH <2	None	None					
TYPE OF CONTAINER		aG	G/P	G/P	P	P					
NO. OF CONTAINER(S)		1	1	3	1	1					
VOLUME		250mL	1000mL	1000mL	20mL	1000mL					
SAMPLE ANALYSIS		Chromium Hex - 7196;	Gross Alpha;	Strontium-89,90 – Total Sr; Gross Beta;	Activity Scan;	Tritium - H3;					
SAMPLE NO.	**MATRIX***	**SAMPLE DATE**	**SAMPLE TIME**								
B1TPN8	WATER	4-9-08	1037	✓	✓	✓	✓	✓			
	250mL #2 02946Y 1L #2 02868Y										

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
M. A. White MA White	4-9-08 1420	LVLANE TALR	4908 1420

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
J8D090332
W05371
DUE 51208
KKILK

LABORATORY SECTION RECEIVED BY | TITLE | DATE/TIME

FINAL SAMPLE DISPOSITION DISPOSAL METHOD | DISPOSED BY | DATE/TIME

A-6003-618(01/06)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 4 9 08 1420 GM Screen Result 0.1K

Client: FLH SDG #: W05371 NA[ ] SAF #: F08-085 NA [ ]

Work Order Number: J8D090332 Chain of Custody # F08-085-011

Shipping Container ID: _____ Air Bill # _____

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

Sample Custodian: [signature] Date: 4 9 08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TESTAMERICA

4/23/2008 1:43:56 PM

Sample Preparation/Analysis

Balance Id:1120482733

108302, Fluor Hanford Inc , Waste
Management Federal Servi

AZ Gross Alpha PrpRC5014
TZ Gross Alpha by GPC using Th-230 curve
01 STANDARD TEST SET

PRIORITY

Pipet #: 245

AnalyDueDate: 05/09/2008

Sep1 DT/Tm Tech:

Batch: 8101335 **WATER** **pCi/L** **PM, Quote: SS , 29754**

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD | Bock D

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 KK1LK-1-AE J8D090332-1-SAMP 04/09/2008 10:37		200.20g,in AmtRec: VIAL20,250G,5XLP #Containers: 7		1.5	20.5	50	12	1120	4/24/08 BD	
2 KK1LK-1-AN-X J8D090332-1-DUP 04/09/2008 10:37		200.10g,in AmtRec: VIAL20,250G,5XLP #Containers: 7			20.5		12D			
3 KK3GL-1-AA-B J8D100000-335-BLK 04/09/2008 10:37		200.10g,in AmtRec: #Containers: 1			1.1		A 11 4/24/08 BC			
4 KK3GL-1-AC-C J8D100000-335-LCS 04/09/2008 10:37		200.20g,in AmtRec: #Containers: 1	ASD4453 04/17/08,pd 06/01/01,r		1.1		11D			

Comments: pH<2.0 DWH 4/23/08

All Clients for Batch:
108302, Fluor Hanford Inc Waste Management Federal Servi, SS , 29754

KK1LK1AE-SAMP Constituent List:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
KK3GL1AA-BLK:					
ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
KK3GL1AC-LCS:					
Am-241	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

KK1LK1AE-SAMP Calc Info:

27

4/23/2008 1:43:58 PM

Sample Preparation/Analysis

AZ Gross Alpha PrpRC5014
TZ Gross Alpha by GPC using Th-230 curve
01 STANDARD TEST SET

Balance Id:1120482733

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: ,HarrisD

AnalyDueDate: 05/09/2008

Batch: 8101335 pCi/L
SEQ Batch, Test: None

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

```
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: A
KK3GL1AA-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: A
KK3GL1AC-LCS:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: A
```

Approved By _____ Date: _____

4/28/2008 2:27:03 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/29/2007, 5/3/2008, Batch: '8101335', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
8101335							
AC			Rev1C	HarrisD	4/23/2008 1:41:22 PM		
SC				antonsonl	IsBatched	4/10/2008 4:05:44 PM	ICOC_RADCALC v4.8.32
SC				HarrisD	InPrep	4/23/2008 1:41:22 PM	RICH-RC-5017 Revision 6
SC				HarrisD	Prep1C	4/23/2008 1:44:03 PM	RICH-RC-5014 REVISION 7
SC				BockJ	InPrep2	4/24/2008 8:46:41 AM	RICH-RC-5014 REVISION 7
SC				BockJ	Prep2C	4/24/2008 4:18:03 PM	RICH-RC-5014 REVISION 7
SC				DAWKINSO	CalcC	4/24/2008 8:23:44 PM	RICH-RD-0003 REVISION 5
SC				antonsonl	Rev1C	4/28/2008 2:26:49 PM	RICH-RC-0002 REV 8
AC				HarrisD	4/23/2008 1:44:03 PM		
AC				BockJ	4/24/2008 8:46:41		
AC				BockJ	4/24/2008 4:18:03 PM		
AC				DAWKINSO	4/24/2008 8:23:44 PM		
AC				antonsonl	4/28/2008 2:26:49 PM		

"AC" Accepting Entry; "SC" Status Change

TAL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 6

ICOCFractions v4.8.33

TESTAMERICA

4/23/2008 1:47:36 PM

108302, Fluor Hanford Inc Management Federal Servi , Waste

AnalyDueDate: 05/09/2008

Sample Preparation/Analysis

PRIORITY

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

Balance Id:112048273314 A
Pipet #: 24S
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,HarrisD Back 2

Batch: 8101164 **WATER** **pCi/L** **PM, Quote: SS , 29754**
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 **KK1LK-1-AA** J8D090332-1-SAMP 04/09/2008 10:37		200.20g,in AmtRec: VIAL20,250G,5XLP #Containers: 7		1.5	37.7	100	28A	1922	4/24/08 00	Scr: Alpha: Beta:
2 **KK1LK-1-AG-S** J8D090332-1-MS 04/09/2008 10:37		AmtRec: VIAL20,250G,5XLP #Containers: 7			N/A					Scr: Alpha: Beta:
3 **KK1LK-1-AH-Z** J8D090332-1-Z 04/09/2008 10:37		AmtRec: VIAL20,250G,5XLP #Containers: 7			N/A					Scr: Alpha: Beta:
4 **KK1LK-1-AJ-X** J8D090332-1-DUP 04/09/2008 10:37		200.00g,in AmtRec: VIAL20,250G,5XLP #Containers: 7			38.1		28B	1922	4/24/08 00	Scr: Alpha: Beta:
5 **KK2Q9-1-AA-B** J8D100000-164-BLK 04/09/2008 10:37		199.90g,in AmtRec: #Containers: 1			0.2		28C			Scr: Alpha: Beta:
6 **KK2Q9-1-AC-C** J8D100000-164-LCS 04/09/2008 10:37		200.10g,in AmtRec: #Containers: 1	BESB3239 04/02/08,pd 08/08/06 r		0.6		28D			Scr: Alpha: Beta:

30

TESTAMERICA

4/23/2008 1:47:37 PM

Sample Preparation/Analysis

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

Balance Id:1120482733!4 A

Pipet #: _____

AnalyDueDate: 05/09/2008

Sep1 DT/Tm Tech:

Batch: 8101164 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 (24hr) On | Off Circle	CR Analyst, Init/Date	Comments:

Comments: pH<2.0 DLH 4/23/08
Samples 2&3 are not needed for this batch. DLH 4/24/08

All Clients for Batch:
108302, Fluor Hanford Inc Waste Management Federal Servi, SS , 29754

KK1LK1AA-SAMP Constituent List:
BETA RDL:4 pCi/L LCL: UCL: RPD:
KK1LK1AG-MS Constituent List:

KK1LK1AH-MS:
Sr-90 RDL: pCi/L LCL:70 UCL:130 RPD:20
KK2Q91AA-BLK:
BETA RDL:4 pCi/L LCL: UCL: RPD:
KK2Q91AC-LCS:
Sr-90 RDL: pCi/L LCL:70 UCL:130 RPD:20

KK1LK1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KK1LK1AG-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KK1LK1AH-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KK2Q91AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KK2Q91AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

4/28/2008 2:32:01 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/29/2007, 5/3/2008, Batch: '8101164', User: *ALL Order By DateTimeAccepting

C Batch	Work Ord	CurStatus	Accepting			Comments
8101164						
AC		Rev1C	HarrisD	4/23/2008 1:45:22 PM		
SC			antonsonl	IsBatched	4/10/2008 4:06:57 PM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	4/23/2008 1:45:22 PM	RICH-RC-5017 Revision 6
SC			HarrisD	Prep1C	4/23/2008 1:47:38 PM	RICH-RC-5014 REVISION 7
SC			BockJ	InPrep2	4/24/2008 8:46:34 AM	RICH-RC-5014 REVISION 7
SC			BockJ	Prep2C	4/24/2008 4:18:20 PM	RICH-RC-5014 REVISION 7
SC			DAWKINSO	InCnt1	4/24/2008 5:28:27 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	4/24/2008 9:54:57 PM	RICH-RD-0003 REVISION 5
SC			antonsonl	Rev1C	4/28/2008 2:31:55 PM	RICH-RC-0002 REV 8
AC			HarrisD	4/23/2008 1:47:38 PM		
AC			BockJ	4/24/2008 8:46:34		
AC			BockJ	4/24/2008 4:18:20 PM		
AC			DAWKINSO	4/24/2008 5:28:27 PM		
AC			DAWKINSO	4/24/2008 9:54:57 PM		
AC			antonsonl	4/28/2008 2:31:55 PM		

AC: Accepting Entry; SC: Status Change

TESTAMERICA

4/23/2008 4:56:06 PM

Sample Preparation/Analysis

Balance Id:1120482733

108302, Fluor Hanford Inc , Waste
Management Federal Servi

CG Sr-Total Prp/SepRC5006
TH Total Strontium by GPC
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 05/09/2008

Sep1 DT/Tm Tech: 04/22/2008 19:19,ManisD

Batch: 8101334 WATER pCi/L PM, Quote: SS , 29754

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 8101164 BCS8, 8101330 ARS6, 8101334 CGTH, 8101335 AZTZ, 8101336 88EA,

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:
1 KK1LK-1-AK J8D090332-1-SAMP 04/09/2008 10:37			500.00g,in AmtRec: VIAL20,250G,5XLP	500.00g	SRTA17484 02/19/08,pd 05/22/07,r #Containers: 7	1.5	96.8	100	32A Scr:	2043 Alpha:	4/23/08 80-C Beta:	
2 KK1LK-1-AM-X J8D090332-1-DUP 04/09/2008 10:37			500.20g,in AmtRec: VIAL20,250G,5XLP	500.20g	SRTA17485 02/19/08,pd 05/22/07,r #Containers: 7	1.5	98.7	100	32C Scr:	Alpha:	Beta:	
3 KK3GE-1-AA-B J8D100000-334-BLK 04/09/2008 10:37			500.10g,in AmtRec:	500.10g	SRTA17486 02/19/08,pd 05/22/07,r #Containers: 1	1.5	89	100	27B Scr:	Alpha:	Beta:	
4 KK3GE-1-AC-C J8D100000-334-LCS 04/09/2008 10:37			500.00g,in AmtRec:	500.00g	STSC1985 02/19/08,pd 05/22/07,r #Containers: 1	1.5	88.9	100	27A Scr:	Alpha:	Beta:	

Comments:

All Clients for Batch:
108302, Fluor Hanford Inc Waste Management Federal Servi, SS , 29754

KK1LK1AK-SAMP Constituent List:

Sr-90	RDL:2	pCi/L	LCL:70	UCL:130	RPD:20
KK3GE1AA-BLK:					
Sr-90	RDL:2	pCi/L	LCL:	UCL:	RPD:
KK3GE1AC-LCS:					
Sr-90	RDL:2	pCi/L	LCL:70	UCL:130	RPD:20

KK1LK1AK-SAMP Calc Info:

4/23/2008 4:56:07 PM

Sample Preparation/Analysis

CG Sr-Total Prp/SepRC5006
TH Total Strontium by GPC
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #:

AnalyDueDate: 05/09/2008

Sep1 DT/Tm Tech: 04/22/2008 19:19,ManisD

Batch: 8101334 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:

```
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
KK3GE1AA-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
KK3GE1AC-LCS:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

4/28/2008 2:39:05 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/29/2007, 5/3/2008, Batch: '8101334', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8101334						
AC		Rev1C	HarrisD	4/17/2008 12:36:54		
SC			antonsonl	IsBatched	4/10/2008 4:05:44 PM	ICOC_RADCALC v4.8.32
SC			HarrisD	InPrep	4/17/2008 12:36:54 PM	RICH-RC-5016 Revision 7
SC			HarrisD	Prep1C	4/17/2008 12:43:08 PM	RICH-RC-5016 REVISION 7
SC			ManisD	InSep1	4/17/2008 2:11:41 PM	RICH-RC-5006 REV 7
SC			ManisD	Sep1C	4/23/2008 4:57:28 PM	RICH-RC-5006 REV 7
SC			DAWKINSO	InCnt1	4/23/2008 6:12:13 PM	RICH-RD-0003 REVISION 5
SC			DAWKINSO	CalcC	4/23/2008 10:10:40 PM	RICH-RD-0003 REVISION 5
SC			nortonj	Rev1C	4/28/2008 2:38:59 PM	RICH-RC-0002 REV 8
AC			HarrisD	4/17/2008 12:43:08		
AC			ManisD	4/17/2008 2:11:41 PM		
AC			ManisD	4/23/2008 4:57:28 PM		
AC			DAWKINSO	4/23/2008 6:12:13 PM		
AC			DAWKINSO	4/23/2008 10:10:40		
AC			nortonj	4/28/2008 2:38:59 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.33

4/10/2008 4:05:47 PM

Sample Preparation/Analysis

108302, Fluor Hanford Inc , Waste
Management Federal Servi

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

AnalyDueDate: 05/09/2008

Batch: 8101330 WATER pCi/L PM, Quote: SS , 29754

SEQ Batch. Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 4-15-08
Sep2 DT/Tm Tech:
Prep Tech:

Priority

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 KK1LK-1-AC								
J8D090332-1-SAMP								
04/09/2008 10:37		AmtRec: VIAL20,250G,5XLP	#Containers: 7			Scr:	Alpha:	Beta:
2 KK1LK-1-AL-X								
J8D090332-1-DUP								
04/09/2008 10:37		AmtRec: VIAL20,250G,5XLP	#Containers: 7			Scr:	Alpha:	Beta:
3 KK3FM-1-AA-B								
J8D100000-330-BLK								
04/09/2008 10:37		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
4 KK3FM-1-AC-C								
J8D100000-330-LCS								
04/09/2008 10:37		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
5 KK3FM-1-AD-B								
J8D100000-330-BLK								
04/09/2008 10:37		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

All Clients for Batch:
108302, Fluor Hanford Inc Waste Management Federal Servi, SS , 29754

KK1LK1AC-SAMP Constituent List:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20

TESTAMERICA

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Sample Preparation/Analysis

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

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 4-15-08 [illegible]
Sep2 DT/Tm Tech:
Prep Tech:

AnalyDueDate: 05/09/2008

Batch: 8101330 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:

KK3FM1AA-BLK:

KK3FM1AC-LCS:

KK3FM1AD-BLK:

KK1LK1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KK3FM1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KK3FM1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KK3FM1AD-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TESTAMERICA

4/28/2008 2:31:21 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/29/2007, 5/3/2008, Batch: '8101330', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8101330						
AC		**Rev1C**	**McDowellD**	4/15/2008 7:46:35		
SC			antonsonl	IsBatched	4/10/2008 4:05:44 PM	ICOC_RADCALC v4.8.32
SC			McDowellD	InSep1	4/15/2008 7:46:35 AM	RICH-RC-5007 REVISION 6
SC			McDowellD	Sep1C	4/24/2008 1:30:19 PM	RICH-RC-5007 REVISION 6
SC			ClarkR	InCnt1	4/24/2008 1:36:57 PM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC	4/26/2008 7:54:34 AM	RICH-RD-0001 REVISION 4
SC			nortonj	Rev1C	4/28/2008 2:31:12 PM	RICH-RC-0002 REV 8
AC			**McDowellD**	4/24/2008 9:58:23		
AC			**McDowellD**	4/24/2008 1:30:19 PM		
AC			**ClarkR**	4/24/2008 1:36:57 PM		
AC			**BlackCL**	4/26/2008 7:54:34		
AC			**nortonj**	4/28/2008 2:31:12 PM		

AC: Accepting Entry; SC: Status Change

TAL Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.33

TESTAMERICA

4/10/2008 10:26:38 AM

Sample Preparation/Analysis

108302. Fluor Hanford Inc Management Federal Servi . Waste

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

AnalyDueDate: 05/09/2008

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

Batch: 8101164 **WATER** **pCi/L** **PM, Quote: SS , 29754**
SEQ Batch. Test: None All Tests: 88EA. ARS6. AZTZ. CLTL. 8101164 BCS8,

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 KK1LK-1-AA										
J8D090332-1-SAMP										
04/09/2008 10:37		AmtRec: VIAL20,250G,5XLP		#Containers: 7				Scr:	Alpha:	Beta:
2 KK1LK-1-AG-S										
J8D090332-1-MS										
04/09/2008 10:37		AmtRec: VIAL20,250G,5XLP		#Containers: 7				Scr:	Alpha:	Beta:
3 KK1LK-1-AH-Z										
J8D090332-1-Z										
04/09/2008 10:37		AmtRec: VIAL20,250G,5XLP		#Containers: 7				Scr:	Alpha:	Beta:
4 KK1LK-1-AJ-X										
J8D090332-1-DUP										
04/09/2008 10:37		AmtRec: VIAL20,250G,5XLP		#Containers: 7				Scr:	Alpha:	Beta:
5 KK2Q9-1-AA-B										
J8D100000-164-BLK										
04/09/2008 10:37		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:
6 KK2Q9-1-AC-C										
J8D100000-164-LCS										
04/09/2008 10:37		AmtRec:		#Containers: 1				Scr:	Alpha:	Beta:

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TESTAMERICA

4/10/2008 10:26:39 AM

Sample Preparation/Analysis

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

AnalyDueDate: 05/09/2008

Batch: 8101164 pCi/L
SEQ Batch. Test: None

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

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

Comments:

All Clients for Batch:
108302, Fluor Hanford Inc Waste Management Federal Servi, SS , 29754

KK1LK1AA-SAMP Constituent List:
BETA RDL:4 pCi/L LCL: UCL: RPD:
KK1LK1AG-MS Constituent List:

KK1LK1AH-MS:

KK2Q91AA-BLK:

KK2Q91AC-LCS:

KK1LK1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KK1LK1AG-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KK1LK1AH-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KK2Q91AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
KK2Q91AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By Date: