Analytical Data Package Prepared For

CH2M Hill Plateau Remediation

Radiochemical Analysis By

TestAmerica TARL

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

Data Package Contains _____ Pages

Report Nbr: 40642

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05567	S09-011	B1XMJ2	J8K250157-1	K3LVJ1AA	9K3LVJ10	8345299
		B1XMJ3	J8K250157-2	K3LVV1AA	9K3LVV10	8345299
		B1XM89	J8K250157-3	K3LV31AA	9K3LV310	8345299
	W09-011	B1XN96	J8K250169-1	K3L0V1AA	9K3L0V10	8345289
		B1XN98	J8K250169-2	K3L041AA	9K3L0410	8345289
		B1XN99	J8K250169-3	K3L091AA	9K3L0910	8345289
	I09-006	B1XKH1	J8K250355-1	K3NLE1AA	9K3NLE10	8331280
	I09-005	B1XHP5	J8K250357-1	K3NLQ1AA	9K3NLQ10	8345298
		B1XJC9	J8K250357-2	K3NLR1AA	9K3NLR10	8331280
		B1XJC9	J8K250357-2	K3NLR1AC	9K3NLR10	8345301
		B1XJC9	J8K250357-2	K3NLR1AD	9K3NLR10	8345295
		B1XJC9	J8K250357-2	K3NLR1AE	9K3NLR10	8345296
	I09-008	B1XL79	J8K250360-1	K3NPX1AA	9K3NPX10	8345292
	I09-007	B1XKY8	J8K250362-1	K3NP21AA	9K3NP210	8345292
		B1XKX1	J8K250362-2	K3NP31AA	9K3NP310	8345292

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Comments:

RECEIVED MAY 21, 2009

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Report Nbr: 40642

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05567	I09-007	B1XKW0	J8K250362-3	K3NP51AA	9K3NP510	8345292
		B1XKY0	J8K250362-4	K3NP61AA	9K3NP610	8345292
		B1XKX0	J8K250362-5	K3NP81AA	9K3NP810	8345292
		B1XKX6	J8K250362-6	K3NP91AA	9K3NP910	8345292
	I09-009	B1XLN3	J8K250365-1	K3NQN1AA	9K3NQN10	8331280
		B1XLN3	J8K250365-1	K3NQN1AC	9K3NQN10	8345287
	W09-011	B1XTK7	J8K260105-1	K3N0L1AA	9K3N0L10	8345289
		B1XTK9	J8K260105-2	K3N0N1AA	9K3N0N10	8345289
	I09-010	B1XX32	J8L030233-1	K30861AA	9K308610	8338511

Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

CH2M Hill Plateau Remediation Company
P.O. Box 1600
Mail Stop - B6-06
Richland, WA 99352

January 19, 2009

Attention: Mike Neely

SAF Number	:	S09-011, W09-011, I09-005, I09-008, I09-007, I09-009, I09-010, I09-006
Date SDG Closed	:	December 3, 2008
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W05567
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between November 21, 2008 and December 3, 2008 twenty water samples were received at TestAmerica (TARL) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Fluor Hanford specific IDs:

PGW ID#	TARL ID#	DATE OF RECEIPT	MATRIX
B1XM89	K3LV3	11/21/08	WATER
B1XMJ3	K3LVV	11/21/08	WATER
B1XMJ2	K3LVJ	11/21/08	WATER
B1XN99	K3L09	11/21/08	WATER
B1XN98	K3L04	11/21/08	WATER
B1XN96	K3L0V	11/21/08	WATER
B1XKH1	K3NLE	11/24/08	WATER
B1XJC9	K3NLR	11/24/08	WATER
B1XHP5	K3NLQ	11/24/08	WATER
B1XL79	K3NPX	11/24/08	WATER
B1XKX6	K3NP9	11/24/08	WATER
B1XKX0	K3NP8	11/24/08	WATER
B1XKY0	K3NP6	11/24/08	WATER

B1XKW0	K3NP5	11/24/08	WATER
B1XKX1	K3NP3	11/24/08	WATER
B1XKY8	K3NP2	11/24/08	WATER
B1XLN3	K3NQN	11/24/08	WATER
B1XTK9	K3N0N	11/25/08	WATER
B1XTK7	K3N0L	11/25/08	WATER
B1XX32	K3086	12/03/09	WATER

II. Sample Receipt

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

III. Analytical Results/Methodology

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

The requested analyses were:

Gas Proportional Counting
Gross Alpha by method RL-GPC-001 (RICH-RC-5014)*
Gross Beta by method RL-GPC-001 (RICH-RC-5014)*
Strontium-90 by method RL-GPC-003 (RICH-RC-5006)*
Gamma Spectroscopy
Gamma Spec (LL) by method RL-GAM-001 (RICH-RC-5017)*
Iodine-129 (LL) by method RL-GAM-002 (RICH-RC-5025)*
Liquid Scintillation Counting
Technetium-99 by method RL-LSC-013 (RICH-RC-5078)*
Tritium by method RL-LSC-005 (RICH-RC-5007)*
Laser Induced Phosphorimetry
Total Uranium by method RL-KPA-003 (RICH-RC-5058)*
Chemical Analysis
Hexavalent Chromium by EPA method 7196A

*SOP ID's changed effective 7-01-2008. Attached is a cross reference until SOP ID's are changed in all systems.

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 RL-GPC-001 (RICH-RC-5014):
The LCS recovered low in the original count. The LCS was flamed and recounted with acceptable results. Except as noted, the LCS, batch blank, samples and sample duplicate (B1XJC9) results are within contractual requirements.

Gross Beta by method RL-GPC-001 (RICH-RC-5014):
The LCS, batch blank, samples and sample duplicate (B1XJC9) results are within contractual requirements.

Strontium-90 by method RL-GPC-003 (RICH-RC-5006):
There was an obvious blank / LCS switch in this batch. The switch was verified by checking the planchets in the count room. The data was corrected in the data review process. Except as noted, the LCS, batch blank, samples and sample duplicate (B1XHP5) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec (LL) by method RL-GAM-001 (RICH-RC-5017):
There was insufficient volume for a duplicate. Sample B1XMJ2 was recounted on a different detector for the duplicate (B1XMJ2 DUP). Except as noted, the LCS, batch blank, samples and sample duplicate (B1XMJ2) results are within contractual requirements.

Iodine-129 (LL) by method RL-GAM-002 (RICH-RC-5025):
All the samples in this batch were analyzed with reduced aliquots due to insufficient sample volumes. Excepts as noted, the LCS, batch blank, samples and sample duplicate (B1XL79) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by method RL-LSC-013 (RICH-RC-5078):
The LCS, batch blank, samples, sample duplicate (B1XTK7), and sample matrix spike (B1XTK9) results are within contractual requirements.

Tritium by method RL-LSC-005 (RICH-RC-5007):
The LCS, batch blank, samples and sample duplicate (B1XJC9) results are within contractual requirements.

Total Uranium

Total Uranium by method RL-KPA-003 (RICH-RC-5058):
The LCS, batch blank, samples, sample duplicate (B1XLN3), and sample matrix spike (B1XLN3) results are within contractual requirements.

Chemical Analysis
Hexavalent Chromium by EPA method 7196A

Batch 8331280:
The LCS, batch blank, samples, sample duplicate (B1XKH1), sample matrix spike (B1XKH1), and matrix spike duplicate (B1XKH1) results are within contractual requirements.

Batch 8338511:
The LCS, batch blank, samples, sample duplicate (B1XX32), sample matrix spike (B1XX32), and matrix spike duplicate (B1XX32) 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

5/04/2009

Problem and Discrepancy Report
TARL
SDG W0556~~7b~~ SKS 5/21/09

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1. The data package has the following issues:

a) Sample check-in lists, #8, custody seals not checked for all lists.

Resolution: *Check the custody seal boxes.*

Lab Response: Made Corrections

b) Sample check-in list, for 11/24/08, SAF# I09-005, #9, the broken box is checked. The narrative states all samples were received in good condition.

Resolution: *Note the broken sample in the narrative.*

Lab Response: Made correction to check in list – sample was not broken.

c) Sample check-in lists for 11/24/08, SAF#s I09-006, and I09-009, #4, cooler temp. is checked N/A when cooling preservation required.

Resolution: *Provide cooler temperature.*

Lab Response: Made Corrections

Resolve issue and resubmit hardcopy data package.

Please provide a response for each issue described on the P&D form

Page 1 of 1

Seger, Sandra

From: Elliott, Wanda S [Wanda_S_Elliott@RL.gov]
Sent: Wednesday, May 20, 2009 2:50 PM
To: Seger, Sandra; Wagar, Rhonda
Cc: ^CPP Sample Management; Hampt, Heidi; Crisp, Bryan D; Sumner, Laine C
Subject: P&D W05567b
Importance: High
Attachments: P&D W05567b.doc

Attached is the P&D for W05567b.

Wanda Elliott

Environmental Scientist
(509) 376-1454 Office
2753 E/200 East Area
MSIN R3-60

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.

Isotope	Richland SOP #	Old Richland SOP #	Method Reference	Title
Asbestos	RL-ASB-001	N/A	NIOSH 7400	Fiber Counting by Phase Contrast Microscopy based on NIOSH 7400
Asbestos	RL-ASB-002	N/A	NIOSH 9002	Sample Prep and Analysis for Asbestos (bulk) by Polarized Light Microsopy based on NIOSH 9002
Alpha - Gross	ARCHIVED	RICH-RB-5035	Liquid Scintillation Anal/ Packard	DETERMINATION OF GROSS ALPHA IN NASAL SMEARS BY LIQUID SCINTILLATION COUNTING
Alpha - Gross	RL-GPC-001	RICH-RC-5014	9310 / EPA SW846 900.0 / EPA 600	DETERMINATION OF GROSS ALPHA AND GROSS BETA IN WATER BY METHOD 9310
Alpha - Gross	RL-GPC-007	RICH-RC-5020	SM 7110B EPA 680	DETERMINATION OF GROSS ALPHA AND GROSS BETA IN SOIL, SHORELINE SOIL, FOOD AND VEGETATION
Alpha - Gross	RL-GPC-002	RICH-RC-5021	00-02 EPA 520	DETERMINATION OF GROSS ALPHA ACTIVITY IN WATER BY COPRECIPITATION
Alpha - Gross	RL-GPC-008	RICH-RC-5036	ER100 / LANL	PREPARATION OF AIR FILTERS FOR GROSS ALPHA/BETA AND COMPOSITING AIR FILTERS
Am	RL-ALP-003	RICH-RC-5072	Mod RP 725 / DOE0089T EXT Chromatography	SEPARATION OF AMERICIUM, CURIUM, AND URANIUM BY EXTRACTION CHROMATOGRAPHY
Am	RL-ALP-010	RICH-RC-5080	Am03/Pu11HASL 300 NAS-NS-3006	SEQUENTIAL SEPARATION OF PLUTONIUM AND AMERICIUM
Beta - Gross	RL-GPC-001	RICH-RC-5014	9310 / EPA SW846 900.0 / EPA 600	DETERMINATION OF GROSS ALPHA AND GROSS BETA IN WATER BY METHOD 9310
Beta - Gross	RL-GPC-007	RICH-RC-5020	SM 7110B EPA 680	DETERMINATION OF GROSS ALPHA AND GROSS BETA IN SOIL, SHORELINE SOIL, FOOD AND VEGETATION
Beta - Gross	RL-GPC-008	RICH-RC-5036	ER100 / LANL	PREPARATION OF AIR FILTERS FOR GROSS ALPHA/BETA AND COMPOSITING AIR FILTERS
C14	RL-LSC-001	RICH-RB-5013	Mod H-02 / EPA 520	TRITIUM, CARBON-14, NICKEL-63 OR PHOSPHORUS-32 ANALYSIS IN URINE
C14	RL-LSC-008	RICH-RC-5022	EPA C-01 / EPA 520	CARBON 14 BY DIGESTION METHOD
C14	RL-LSC-009	RICH-RC-5040	Mod C14 / EPA 680	DETERMINATION OF CARBON-14 BY BENZENE SYNTHESIS
C14	RL-LSC-010	RICH-RC-5046	EPA C-01 / EPA 520	DETERMINATION OF CARBON-14 IN GRAPHITE AND SOIL
C14	RL-LSC-011	RICH-RC-5047	Mod H-02 / EPA 520	DETERMINATION OF CARBON-14 IN WATER BY DIRECT COUNTING
Cm	RL-ALP-003	RICH-RC-5072	Mod RP 725 / DOE0089T EXT Chromatography	SEPARATION OF AMERICIUM, CURIUM, AND URANIUM BY EXTRACTION CHROMATOGRAPHY
Coliform	RL-WC-001	RICH-WC-5001	9222B	DETERMINATION OF TOTAL COLIFORM: MULTIPLE TUBE FERMENTATION TECHNIQUE
Coliform	RL-WC-002	RICH-WC-5002	9131	TOTAL COLIFORMS BY MEMBRANE FILTRATION
Coliform	RL-WC-005	RICH-WC-5007	9223	TOTAL COLIFORM BY THE COLILERT METHOD
Cr6+	RL-WC-003	RICH-WC-5003	7196A, SW846	DETERMINATION OF HEXAVALENT CHROMIUM [Cr(VI)] IN WATER, SOIL, AND SIMILAR MATRICES
Cr6+	RL-WC-004	RICH-WC-5005	3060 / SW846	DETERMINATION OF HEXAVALENT CHROMIUM (CrVI) IN SOLID MATRICES WITH ALKALINE DIGESTION
Fe	RL-LSC-015	RICH-RC-5074	EXT Chromatography ModFe55/PNL-ALO-435	SEPARATION OF IRON AND NICKEL BY EXTRACTION CHROMATOGRAPHY
Fe55	RL-LSC-016	RICH-RC-5023	R4-73-014 / EPA HASL 300	DETERMINATION OF IRON-55 AND IRON-59 IN WATER
Fe59	RL-LSC-016	RICH-RC-5023	R4-73-014 / EPA HASL 300	DETERMINATION OF IRON-55 AND IRON-59 IN WATER
Gamma	RL-GAM-001	RICH-RC-5017	901.0 / HASL 300 ASTM D3649	PREPARATION OF ALL MATRICES FOR ANALYSIS BY GAMMA SPECTROSCOPY
H3	RL-LSC-001	RICH-RB-5013	Mod H-02 / EPA 520	TRITIUM, CARBON-14, NICKEL-63 OR PHOSPHORUS-32 ANALYSIS IN URINE
H3	RL-LSC-003	RICH-RB-5034	7500-3 / SM	DETERMINATION OF TRITIUM IN URINE BY DISTILLATION
H3	RL-LSC-004	RICH-RC-5004	H3 / EPA LV539	DETERMINATION OF TRITIUM IN AIR
H3	RL-LSC-005	RICH-RC-5007	Mod 906.0 / EPA 600	SEPARATION OF TRITIUM IN WATER AND AQUEOUS COMPONENT OF WINE
H3	RL-LSC-007	RICH-RC-5024	H-3 by EE EPA LV539 / HASL 300	DETERMINATION OF LOW LEVEL TRITIUM IN WATER BY ELECTROLYTIC ENRICHMENT
H3	RL-LSC-002	RICH-RC-5037	H-3 in Water/Tissue / LV 539	DETERMINATION OF TRITIUM BY CRYOGENIC DISTILLATION
H3	RL-LSC-006	RICH-RC-5048	H-3 in Water/Tissue / LV 539	TRITIUM PREPARATION IN MILK SAMPLES
I129	RL-GAM-002	RICH-RC-5025	R4-73-014I/EPA ASTM D2334 (Discontinued)	DETERMINATION OF IODINE-131 AND 129 IN WATER BY SOLVENT EXTRACTION METHOD
I131	RL-GAM-002	RICH-RC-5025	R4-73-014I/EPA ASTM D2334 (Discontinued)	DETERMINATION OF IODINE-131 AND 129 IN WATER BY SOLVENT EXTRACTION METHOD
I131	ARCHIVED	RICH-RC-5049	HASL 300 (1983)	DETERMINATION OF IODINE-131 IN MILK BY BATCH ION-EXCHANGE
Metals	ARCHIVED	BHI-MT-0001	6010	ICP-AE SPECTROSCOPY, SPECTROMETRIC METHOD FOR TRACE ELEMENT ANALYSIS, METHOD 6010A FOR Bechtel

Isotope	Richland SOP #	Old Richland SOP #	Method Reference	Title
Metals	RL-MT-001	RICH-MT-0001	6010B	ICP-AES for TRACE ELEMENT ANALYSIS, METHOD 6010B
Metals	RL-MT-002	RICH-MT-0002	SW486 3050B	ACID DIGESTION FOR ICP ANALYSIS
Metals	RL-MT-003	RICH-MT-0003	NIOSH 7300	DIGESTION PREP based on METHOD NIOSH 7300
Ni	RL-LSC-015	RICH-RC-5074	EXT Chromatography ModFe55/PNL-ALO-435	SEPARATION OF IRON AND NICKEL BY EXTRACTION CHROMATOGRAPHY
Ni63	RL-LSC-001	RICH-RB-5013	Mod H-02 / EPA 520	TRITIUM, CARBON-14, NICKEL-63 OR PHOSPHORUS-32 ANALYSIS IN URINE
Ni63	RL-LSC-017	RICH-RC-5069	EXT Chromatography Mod RP300 / DOE0089T	SEPARATION OF Ni-63 BY EXTRACTION CHROMATOGRAPHY
Np	RL-ALP-013	RICH-RC-5009	NAS-NS-3060	DETERMINATION OF NEPTUNIUM-237 BY LIQUID-LIQUID EXTRACTION IN ALL MATRICES
Np	RL-ALP-006	RICH-RC-5064	EXT Chromatography	SEPARATION OF NEPTUNIUM BY EXTRACTION CHROMATOGRAPHY
P32	RL-LSC-001	RICH-RB-5013	Mod H-02 / EPA 520	TRITIUM, CARBON-14, NICKEL-63 OR PHOSPHORUS-32 ANALYSIS IN URINE
Pb	RL-ALP-011	RICH-RC-5076	EXT Chromatography	DETERMINATION OF LEAD-210 BY EXTRACTION CHROMATOGRAPHY
Po	RL-ALP-007	RICH-RB-5001	NAS-NS-3037 HASL 300	DETERMINATION OF POLONIUM-210 IN URINE
Po	RL-ALP-012	RICH-RC-5012	Po-01 / HASL 300 Mod U01 HASL 300	SEPARATION OF ISOTOPIC URANIUM AND POLONIUM-210 IN WATER, SOIL AND FILTERS
Prep - Bioassay	ARCHIVED	RICH-RB-0001		PREPARATION FOR RAPID BIOASSAY ANALYSES
Prep - Bioassay	RL-PRP-001	RICH-RB-5002	Mod Pu06 / HASL 300	PREPARATION OF URINE AND BLOOD SAMPLES
Prep - Bioassay	ARCHIVED	RICH-RB-5004	ASTM D1429-95	DETERMINATION OF SPECIFIC GRAVITY OF URINE
Prep - Bioassay	RL-RPL-002	RICH-RB-5036	Pub 6490,6601 / PNL	PREPARATION OF SYNTHETIC URINE AND FECES USING RECIPES FROM HPS N13.30 PREFORMANCE TESTING
Prep - Bioassay	RL-PRP-002	RICH-RB-5037	LA-10300-M R200 ASTM D3865	PREPARATION OF FECAL SAMPLES USING HYDROFLUORIC ACID DIGESTION
Prep - Bioassay	RL-RPL-003	RICH-RC-5028	ICRP Publication 23	PREPARATION OF SYNTHETIC URINE AND FECES
Prep - Count	RL-ALP-016	RICH-RC-5003	G-03 / HASL 300	COPRECIPITATION OF SOME ACTINIDES ON NEODYMIUM FLUORIDE FOR ALPHA-PARTICLE SPECTROMETRY
Prep - Count	RL-ALP-015	RICH-RC-5039	G-03 / HASL 300 Anal Chem 1972	ELECTRODEPOSITION OF ACTINIDES
Prep - Count	RL-ALP-014	RICH-RC-5085	Morrison & Freiser NAS-NS-3050	ANHYDROUS ETHER EXTRACTION OF URANIUM
Prep - Env	RL-KPA-001	RICH-RC-5015	ASTM / D5174-97	ENVIRONMENTAL SAMPLE PREPARATION FOR URANIUM BY LASER-INDUCED PHOSPHORESCENCE
Prep - Env	RL-PRP-004	RICH-RC-5016	Sr02 / HASL 300	PREPARATION OF ENVIRONMENTAL MATRICES
Prep - Env	RL-PRP-007	RICH-RC-5045	Mod Pu02 / HASL 300	PREPARATION OF MIXED BED RESINS AND PRE-FILTERS
Prep - Env	RL-PRP-008	RICH-RC-5068	Mod ER100 / LA10300	PREPARATION OF SOIL, VEGETATION AND AIR FILTERS BY MIXED STRONG ACID LEACHING
Prep - Resin	RL-ALP-017	RICH-RC-5018	Mod Pu11 / Mod 300	ION-EXCHANGE PREPARATION
Prep - Soil	RL-PRP-003	RICH-RC-5013	Pu02A / HASL 300	PREPARATION OF SOIL SAMPLES
Prep - Soil	RL-PRP-005	RICH-RC-5019	D5259 / ASTM SW 846/3015/3051/3052	PREPARATION AND DISSOLUTION OF SEDIMENTS AND SOIL BY MICROWAVE BOMB DIGESTION
Prep - Soil	RL-PRP-006	RICH-RC-5032	Pu02A / HASL 300	COMPLETE DISSOLUTION BY MIXED ACIDS IN A TEFLON BEAKER
Prep - Soil	RL-PRP-009	RICH-RC-5077	Mod ER100 / LA10300	PREPARATION OF SMALL SOIL SAMPLES FOR GAMMA SPEC AND/OR RADIOCHEM ANAL BY ACID DIGESTION
Prep - Urine	RL-PRP-010	RICH-RC-5086	AnalyticaChemActa1992 RP800 / DOE00089T	URINE AND WATER SAMPLE PREPARATION BY CALCIUM PHOSPHATE PRECIPITATION
Prep - Water	RL-PRP-010	RICH-RC-5086	AnalyticaChemActa1992 RP800 / DOE00089T	URINE AND WATER SAMPLE PREPARATION BY CALCIUM PHOSPHATE PRECIPITATION
Pu	ARCHIVED	RICH-RB-5015	Pu11 / HASL 300	RAPID DETERMINATION OF PLUTONIUM IN FECES
Pu	RL-ALP-002	RICH-RC-5010	Pu11 / HASL 300	DETERMINATION OF ISOTOPIC PLUTONIUM IN ALL MATRICES
Pu	RL-ALP-010	RICH-RC-5080	Am03 HASL 300 Pu11 / HASL 300	SEQUENTIAL SEPARATION OF PLUTONIUM AND AMERICIUM
Pu	RL-ALP-001	RICH-RC-5087	AnalyticaChemActa1992 RP800 / DOE00089T	DETERMINATION OF PLUTONIUM BY EXTRACTION CHROMATOGRAPHY
Ra	RL-RA-001	RICH-RC-5005	903.1 / EPA 600	RADIUM-226 AND RADIUM-228 SEPARATION IN RADIOCHEMICAL MATRICES - ADAPTED FROM EPA 903.1 AND 904.0
Ra	RL-RA-001	RICH-RC-5005	904.0 / EPA 600	RADIUM-226 AND RADIUM-228 SEPARATION IN RADIOCHEMICAL MATRICES - ADAPTED FROM EPA 903.1 AND 904.0

Isotope	Richland SOP #	Old Richland SOP #	Method Reference	Title
Ra	RL-RA-002	RICH-RC-5027	Mod D2460/ ASTM 903.0 / EPA 600	DETERMINATION OF TOTAL RADIUM
Rn	RL-LSC-019	RICH-RC-5082	913.0 / EPA	DETERMINATION OF RADON-222 - ADAPTED FROM METHOD 913.0
S35	ARCHIVED	RICH-RB-5020	Hillebrand, Lundeell, Bright, Hoffman 1953	DETERMINATION OF SULFUR-35 IN URINE
Se79	RL-LSC-012	RICH-RC-5043	Selenium / NAS-NS-3030	RADIOCHEMICAL DETERMINATION OF SELENIUM-79
Solubility	ARCHIVED	RICH-RC-5035	Kalfward&Thomas PNL3716	DETERMINATION OF SOLUBILITY OF RADIOACTIVE PARTICLE CONSTITUENTS
Sr	RL-GPC-005	RICH-RB-5007	Mod Sr02 / HASL 300 Mod 905.0 / EPA 600	DETERMINATION OF TOTAL STRONTIUM IN URINE
Sr	RL-GPC-006	RICH-RB-5021	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	DETERMINATION OF STRONTIUM IN FECES
Sr	ARCHIVED	RICH-RB-5022	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	DETERMINATION OF TOTAL STRONTIUM IN URINE FOR RAPID ANALYSIS
Sr	ARCHIVED	RICH-RB-5031	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	RAPID DETERMINATION OF TOTAL STRONTIUM IN FECES
Sr	RL-GPC-003	RICH-RC-5006	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	STRONTIUM SEPARATION IN ENVIROMENTAL MATRICES
Sr - Yt	RL-GPC-004	RICH-RC-5071	Mod Sr02 / HASL300 Mod 905.0 / EPA 600	YTTRIUM-90 SEPARATION FOR STRONTIUM-90 DETERMINATION IN ALL MATRICES
Tc	RL-LSC-014	RICH-RC-5065	EXT Chromatography Mod RP550 / DOE0089T	DETERMINATION OF TECHNETIUM-99 BY EXTRACTION CHROMATOGRAPHY
Tc	RL-LSC-013	RICH-RC-5078	Tc01 / HASL 300	SEPARATION OF TECHNETIUM-99 IN ALL MATRICES
Th	RL-ALP-008	RICH-RB-5006	Mod Th01 / HASL 300	SEPARATION OF THORIUM FROM URINE AND FECAL SAMPLES
Th	RL-ALP-005	RICH-RC-5084	Mod Th01 / HASL 300 Anal Chim Acta 1982	DETERMINATION OF THORIUM ISOTOPIC IN ENVIRONMENTAL MATRICES
U	RL-ALP-012	RICH-RC-5012	Po-01 / HASL 300 Mod U01 / HASL 300	SEPARATION OF ISOTOPIC URANIUM AND POLONIUM-210 IN WATER, SOIL AND FILTERS
U	RL-KPA-002	RICH-RC-5031	Mod U01 / HASL 300	SEPARATION OF TOTAL URANIUM IN WATER AND URINE
U	RL-KPA-003	RICH-RC-5058	D5174 / ASTM	DETERMINATION OF URANIUM BY PHOSPHORESCENCE ANALYSIS
U	RL-ALP-004	RICH-RC-5067	EXT Chromatography Mod RP725 / DOE0089T	SEPARATION OF URANIUM BY EXTRACTION CHROMATOGRAPHY
U	RL-ALP-003	RICH-RC-5072	EXT Chrom Mod RP725 & 800 / DOE0089T	SEPARATION OF AMERICIUM, CURIUM, AND URANIUM BY EXTRACTION CHROMATOGRAPHY
U	RL-ALP-009	RICH-RC-5079	EXT Chromatography Mod RP725 / DOE0089T	DETERMINATION OF ISOTOPIC URANIUM IN ALL MATRICES

1/19/2009 12:48:00 PM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 40642 File Name: h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.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:
9K3L0410	B1XN98		MW6-SBB-A1	W09-011	W05567					11/21/2008 09:11

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8345289	TC-99	14133-76-7	3.71E+01	pCi/L	5.3E+00	8.0E+00		9.64E+00	100.0	TC99_SEP_LSC	1.25E-01	L	01/09/2009 22:11	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9K3L0910	B1XN99		MW6-SBB-A1	W09-011	W05567					11/21/2008 07:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8345289	TC-99	14133-76-7	2.47E+00	pCi/L	4.3E+00	6.1E+00	U	9.85E+00	100.0	TC99_SEP_LSC	1.249E-01	L	01/09/2009 22:11	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9K3L0V10	B1XN96		MW6-SBB-A1	W09-011	W05567					11/21/2008 10:03

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8345289	TC-99	14133-76-7	4.55E+01	pCi/L	5.6E+00	8.5E+00		9.69E+00	100.0	TC99_SEP_LSC	1.25E-01	L	01/09/2009 22:11	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9K3LV310	B1XM89		MW6-SBB-A1	S09-011	W05567					11/21/2008 11:15

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8345299	BE-7	13966-02-4	-3.17E+00	pCi/L	2.3E+01	2.3E+01	U	4.04E+01		GAMMALL_GS	2.0001E+00	L	01/08/2009 18:37	I
8345299	CO-60	10198-40-0	6.71E+01	pCi/L	1.1E+01	1.1E+01		3.03E+00		GAMMALL_GS	2.0001E+00	L	01/08/2009 18:37	I
8345299	CS-134	13967-70-9	-3.77E-01	pCi/L	2.1E+00	2.1E+00	U	3.61E+00		GAMMALL_GS	2.0001E+00	L	01/08/2009 18:37	I
8345299	CS-137	10045-97-3	-9.15E-01	pCi/L	1.9E+00	1.9E+00	U	3.25E+00		GAMMALL_GS	2.0001E+00	L	01/08/2009 18:37	I
8345299	EU-152	14683-23-9	2.28E+00	pCi/L	4.2E+00	4.2E+00	U	7.49E+00		GAMMALL_GS	2.0001E+00	L	01/08/2009 18:37	I
8345299	EU-154	15585-10-1	1.60E+00	pCi/L	4.8E+00	4.8E+00	U	9.28E+00		GAMMALL_GS	2.0001E+00	L	01/08/2009 18:37	I
8345299	EU-155	14391-16-3	-2.07E-01	pCi/L	3.3E+00	3.3E+00	U	5.62E+00		GAMMALL_GS	2.0001E+00	L	01/08/2009 18:37	I
8345299	K-40	13966-00-2	-1.45E+01	pCi/L	3.1E+01	3.1E+01	U	6.49E+01		GAMMALL_GS	2.0001E+00	L	01/08/2009 18:37	I
8345299	RU-106	13967-48-1	8.61E+00	pCi/L	1.6E+01	1.6E+01	U	2.97E+01		GAMMALL_GS	2.0001E+00	L	01/08/2009 18:37	I
8345299	SB-125	14234-35-6	3.56E+00	pCi/L	4.3E+00	4.3E+00	U	8.10E+00		GAMMALL_GS	2.0001E+00	L	01/08/2009 18:37	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:
9K3LVJ10	B1XMJ2		MW6-SBB-A1	S09-011	W05567					11/21/2008 09:11

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8345299	BE-7	13966-02-4	-4.80E+00	pCi/L	1.3E+01	1.3E+01	U	2.25E+01		GAMMALL_GS	2.00E+00	L	01/08/2009 18:35	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.

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 40642 File Name: h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

8345299	CO-60	10198-40-0	4.72E-01	pCi/L	1.2E+00	1.2E+00	U	2.34E+00		GAMMALL_GS	2.00E+00	L	01/08/2009	18:35	I
8345299	CS-134	13967-70-9	2.50E-01	pCi/L	1.1E+00	1.1E+00	U	2.11E+00		GAMMALL_GS	2.00E+00	L	01/08/2009	18:35	I
8345299	CS-137	10045-97-3	5.15E-02	pCi/L	1.1E+00	1.1E+00	U	1.98E+00		GAMMALL_GS	2.00E+00	L	01/08/2009	18:35	I
8345299	EU-152	14683-23-9	-2.43E+00	pCi/L	2.5E+00	2.5E+00	U	3.97E+00		GAMMALL_GS	2.00E+00	L	01/08/2009	18:35	I
8345299	EU-154	15585-10-1	-1.48E+00	pCi/L	3.2E+00	3.2E+00	U	5.44E+00		GAMMALL_GS	2.00E+00	L	01/08/2009	18:35	I
8345299	EU-155	14391-16-3	-1.08E+00	pCi/L	2.3E+00	2.3E+00	U	3.79E+00		GAMMALL_GS	2.00E+00	L	01/08/2009	18:35	I
8345299	K-40	13966-00-2	-6.04E+00	pCi/L	2.3E+01	2.3E+01	U	4.63E+01		GAMMALL_GS	2.00E+00	L	01/08/2009	18:35	I
8345299	RU-106	13967-48-1	-9.35E-01	pCi/L	9.3E+00	9.3E+00	U	1.66E+01		GAMMALL_GS	2.00E+00	L	01/08/2009	18:35	I
8345299	SB-125	14234-35-6	-1.49E+00	pCi/L	2.5E+00	2.5E+00	U	4.17E+00		GAMMALL_GS	2.00E+00	L	01/08/2009	18:35	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:
9K3LVV10	B1XMJ3		MW6-SBB-A1	S09-011	W05567					11/21/2008 07:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
8345299	BE-7	13966-02-4	1.49E+01	pCi/L	2.8E+01	2.8E+01	U	5.08E+01		GAMMALL_GS	2.0001E+00	L	01/08/2009	18:36	I
8345299	CO-60	10198-40-0	5.27E-01	pCi/L	2.0E+00	2.0E+00	U	3.77E+00		GAMMALL_GS	2.0001E+00	L	01/08/2009	18:36	I
8345299	CS-134	13967-70-9	-1.49E+00	pCi/L	2.2E+00	2.2E+00	U	3.64E+00		GAMMALL_GS	2.0001E+00	L	01/08/2009	18:36	I
8345299	CS-137	10045-97-3	7.40E-01	pCi/L	2.0E+00	2.0E+00	U	3.60E+00		GAMMALL_GS	2.0001E+00	L	01/08/2009	18:36	I
8345299	EU-152	14683-23-9	-9.70E-01	pCi/L	5.4E+00	5.4E+00	U	9.15E+00		GAMMALL_GS	2.0001E+00	L	01/08/2009	18:36	I
8345299	EU-154	15585-10-1	-1.16E+00	pCi/L	5.2E+00	5.2E+00	U	9.25E+00		GAMMALL_GS	2.0001E+00	L	01/08/2009	18:36	I
8345299	EU-155	14391-16-3	-5.76E-01	pCi/L	4.2E+00	4.2E+00	U	7.05E+00		GAMMALL_GS	2.0001E+00	L	01/08/2009	18:36	I
8345299	K-40	13966-00-2	-3.82E+01	pCi/L	4.8E+01	4.8E+01	U	9.80E+01		GAMMALL_GS	2.0001E+00	L	01/08/2009	18:36	I
8345299	RU-106	13967-48-1	-5.45E+00	pCi/L	1.9E+01	1.9E+01	U	3.23E+01		GAMMALL_GS	2.0001E+00	L	01/08/2009	18:36	I
8345299	SB-125	14234-35-6	3.76E+00	pCi/L	5.6E+00	5.6E+00	U	1.01E+01		GAMMALL_GS	2.0001E+00	L	01/08/2009	18:36	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:
9K3N0L10	B1XTK7		MW6-SBB-A1	W09-011	W05567					11/25/2008 09:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
8345289	TC-99	14133-76-7	3.91E+01	pCi/L	5.4E+00	8.1E+00		9.79E+00	100.0	TC99_SEP_LSC	1.251E-01	L	01/09/2009	22:11	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9K3N0N10	B1XTK9		MW6-SBB-A1	W09-011	W05567					11/25/2008 07:50

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
8345289	TC-99	14133-76-7	-3.45E+00	pCi/L	4.0E+00	5.7E+00	U	9.63E+00	100.0	TC99_SEP_LSC	1.251E-01	L	01/09/2009	22:11	I

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

1/19/2009 12:48:00 PM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 40642 File Name: h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.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:
9K3NLQ10	B1XHP5		MW6-SBB-A1	I09-005	W05567					11/24/2008 10:07

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8345298	SR-90	10098-97-2	-6.90E-02	pCi/L	5.6E-01	5.6E-01	U	1.20E+00	48.2	SRISO_SEP_PREC	9.997E-01	L	01/15/2009 04:14	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:
9K3NLR10	B1XJC9		MW6-SBB-A1	I09-005	W05567					11/24/2008 11:49

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8345301	H-3	10028-17-8	1.52E+03	pCi/L	1.8E+02	1.9E+02		3.04E+02	100.0	906.0_H3_LSC	5.00E-03	L	01/03/2009 19:39	I
8345295	ALPHA	12587-46-1	2.36E-01	pCi/L	5.2E-01	5.2E-01	U	1.20E+00	100.0	9310_ALPHABETA	2.00E-01	L	01/14/2009 17:05	I
8345296	BETA	12587-47-2	4.11E+00	pCi/L	1.6E+00	1.7E+00		2.87E+00	100.0	9310_ALPHABETA	2.00E-01	L	01/14/2009 11:53	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9K3NP210	B1XKY8		MW6-SBB-A1	I09-007	W05567					11/23/2008 08:32

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8345292	I-129L	15046-84-1	3.05E-01	pCi/L	2.0E-01	2.0E-01	U	3.48E-01	100.5	I129LL_SEP_LEPS	3.8835E+00	L	01/08/2009 20:12	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9K3NP310	B1XKX1		MW6-SBB-A1	I09-007	W05567					11/23/2008 07:35

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8345292	I-129L	15046-84-1	1.22E-02	pCi/L	1.3E-01	1.3E-01	U	2.41E-01	89.2	I129LL_SEP_LEPS	3.8917E+00	L	01/08/2009 22:27	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9K3NP510	B1XKW0		MW6-SBB-A1	I09-007	W05567					11/23/2008 11:51

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8345292	I-129L	15046-84-1	4.68E+00	pCi/L	7.2E-01	7.2E-01		3.50E-01	88.6	I129LL_SEP_LEPS	3.9038E+00	L	01/09/2009 02:14	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:
9K3NP610	B1XKY0		MW6-SBB-A1	I09-007	W05567					11/23/2008 09:58

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8345292	I-129L	15046-84-1	4.57E+00	pCi/L	7.1E-01	7.1E-01		3.41E-01	90.8	I129LL_SEP_LEPS	3.9038E+00	L	01/09/2009 02:14	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:
9K3NP810	B1XKX0		MW6-SBB-A1	I09-007	W05567					11/23/2008 11:01

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: 40642 File Name: h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8345292	I-129L	15046-84-1	6.99E+00	pCi/L	9.5E-01	9.5E-01		4.40E-01	87.0	I129LL_SEP_LEPS	3.9007E+00	L	01/09/2009 03:56	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:
9K3NP910	B1XKX6		MW6-SBB-A1	I09-007	W05567					11/23/2008 09:58

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8345292	I-129L	15046-84-1	3.70E+00	pCi/L	6.1E-01	6.1E-01		3.41E-01	94.1	I129LL_SEP_LEPS	3.903E+00	L	01/09/2009 05:39	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9K3NPX10	B1XL79		MW6-SBB-A1	I09-008	W05567					11/23/2008 12:50

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8345292	I-129L	15046-84-1	1.91E-02	pCi/L	1.4E-01	1.4E-01	U	2.48E-01	104.9	I129LL_SEP_LEPS	3.8806E+00	L	01/08/2009 16:39	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9K3NQN10	B1XLN3		MW6-SBB-A1	I09-009	W05567					11/24/2008 10:07

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
8345287	Uranium	7440-61-1	1.77E+00	ug/L	1.9E-01	1.9E-01		8.35E-02		UTOT_KPA	2.51E-02	ML	01/16/2009 13:22	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.

Monday, January 19, 2009

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id:	K4EP01AB	**Sdg/Rept Nbr:**	W05567	40642	**Collection Date:** 11/24/2008 10:07
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 11/24/2008

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
8345287	Uranium	0.00E+00	ug/L	0.0E+00	U	8.35E-02			UTOT_KPA	2.51E-02	01/16/2009				D
BLK	7440-61-1			0.0E+00						ML	13:13				

TestAmerica

rptFeadRadEdd v3.68

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

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Monday, January 19, 2009

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id:	K4EP11AB	**Sdg/Rept Nbr:**	W05567 40642	**Collection Date:**	11/25/2008 09:30
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	11/25/2008

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
8345289	TC-99	-2.13E+00	pCi/L	5.8E+00	U	9.65E+00	100.0		TC99_SEP_LS	1.251E-01	01/09/2009				D
BLK	14133-76-7			4.1E+00						L	22:11				

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, January 19, 2009

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id:	K4EP41AB	**Sdg/Rept Nbr:**	W05567 40642	**Collection Date:**	11/23/2008 12:50
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	11/24/2008

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
8345292	I-129L	-8.52E-02	pCi/L	1.5E-01	U	2.57E-01	80.8		I129LL_SEP_L	3.9854E+00	01/09/2009				D
BLK	15046-84-1			1.5E-01						L	07:23				

TestAmerica
rptFeadRadEdd v3.68

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

Monday, January 19, 2009

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id:	K4EP81AB	**Sdg/Rept Nbr:**	W05567 40642	**Collection Date:**	11/24/2008 11:49
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	11/24/2008

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
8345295	ALPHA	1.70E-01	pCi/L	4.4E-01	U	1.06E+00	100.0		9310_ALPHAB	2.00E-01	01/14/2009				D
BLK	12587-46-1			4.4E-01						L	19:26				

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, January 19, 2009

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id:	K4EQD1AB	**Sdg/Rept Nbr:**	W05567 40642	**Collection Date:**	11/24/2008 11:49
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	11/24/2008

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
8345296	BETA	1.15E+00	pCi/L	1.2E+00	U	2.37E+00	100.0		9310_ALPHAB	2.00E-01	01/14/2009				D
BLK	12587-47-2			1.2E+00						L	11:53				

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

Monday, January 19, 2009

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id:	K4EQH1AB	**Sdg/Rept Nbr:**	W05567 40642	**Collection Date:**	11/24/2008 10:07
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	11/24/2008

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
8345298	SR-90	4.07E-01	pCi/L	5.4E-01	U	1.12E+00	53.4		SRISO_SEP_P	1.0004E+00	01/15/2009				D
BLK	10098-97-2			5.2E-01						L	04:14				

TestAmerica
rptFeadRadEdd v3.68

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

Monday, January 19, 2009

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id:	K4EQK1AB	**Sdg/Rept Nbr:**	W05567	40642	**Collection Date:** 11/21/2008 09:11
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 11/21/2008

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
8345299	BE-7	-7.21E+00	pCi/L	1.8E+01	U	3.06E+01			GAMMALL_GS	2.0001E+00	01/08/2009				D
BLK	13966-02-4			1.8E+01						L	19:25				
8345299	CO-60	-2.30E-01	pCi/L	1.3E+00	U	2.34E+00			GAMMALL_GS	2.0001E+00	01/08/2009				D
BLK	10198-40-0			1.3E+00						L	19:25				
8345299	CS-134	5.93E-02	pCi/L	1.3E+00	U	2.44E+00			GAMMALL_GS	2.0001E+00	01/08/2009				D
BLK	13967-70-9			1.3E+00						L	19:25				
8345299	CS-137	9.00E-02	pCi/L	1.3E+00	U	2.44E+00			GAMMALL_GS	2.0001E+00	01/08/2009				D
BLK	10045-97-3			1.3E+00						L	19:25				
8345299	EU-152	1.21E+00	pCi/L	3.7E+00	U	6.55E+00			GAMMALL_GS	2.0001E+00	01/08/2009				D
BLK	14683-23-9			3.7E+00						L	19:25				
8345299	EU-154	2.59E-01	pCi/L	3.1E+00	U	6.07E+00			GAMMALL_GS	2.0001E+00	01/08/2009				D
BLK	15585-10-1			3.1E+00						L	19:25				
8345299	EU-155	-2.16E+00	pCi/L	2.5E+00	U	4.02E+00			GAMMALL_GS	2.0001E+00	01/08/2009				D
BLK	14391-16-3			2.5E+00						L	19:25				
8345299	K-40	8.07E-01	pCi/L	2.3E+01	U	4.36E+01			GAMMALL_GS	2.0001E+00	01/08/2009				D
BLK	13966-00-2			2.3E+01						L	19:25				
8345299	RU-106	-2.34E+00	pCi/L	1.3E+01	U	2.23E+01			GAMMALL_GS	2.0001E+00	01/08/2009				D
BLK	13967-48-1			1.3E+01						L	19:25				
8345299	SB-125	7.94E-01	pCi/L	3.3E+00	U	6.14E+00			GAMMALL_GS	2.0001E+00	01/08/2009				D
BLK	14234-35-6			3.3E+00						L	19:25				

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, January 19, 2009

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id:	K4EQN1AB	**Sdg/Rept Nbr:**	W05567	40642	**Collection Date:** 11/24/2008 11:49
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 11/24/2008

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
8345301	H-3	5.97E+01	pCi/L	1.4E+02	U	3.03E+02	100.0		906.0_H3_LSC	5.00E-03	01/03/2009				D
BLK	10028-17-8			1.3E+02						L	14:12				

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, January 19, 2009

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id:	K4EQN1DX	**Sdg/Rept Nbr:**	W05567	40642	**Collection Date:** 11/24/2008 11:49
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 11/24/2008

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
8345301	H-3	-5.57E+01	pCi/L	1.3E+02	U	3.16E+02	100.0		906.0_H3_LSC	5.00E-03	01/03/2009				D
BLK	10028-17-8			1.2E+02						L	16:56				

TestAmerica

rptFeadRadEdd v3.68

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

Monday, January 19, 2009

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id:	K4EP01CS	**Sdg/Rept Nbr:**	W05567	40642	**Collection Date:** 11/24/2008 10:07
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 11/24/2008

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
8345287	Uranium	3.67E+01	ug/L	4.4E+00		8.35E-02		3.66E+01	UTOT_KPA	2.51E-02	01/16/2009			70	D
BS	7440-61-1			4.4E+00				100.2		ML	13:18			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, January 19, 2009

TestAmerica QC Control Sample Report

Lab Code: IARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id:	K4EP01DS	**Sdg/Rept Nbr:**	W05567	40642	**Collection Date:** 11/24/2008 10:07
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 11/24/2008

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
8345287	Uranium	3.69E+00	ug/L	3.8E-01		8.38E-02		3.63E+00	UTOT_KPA	2.50E-02	01/16/2009			70	D
BS	7440-61-1			3.8E-01				101.6		ML	13:20			130	

TestAmerica

rptFeadRadEdd v3.68

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

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Monday, January 19, 2009

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id:	K4EP11CS	**Sdg/Rept Nbr:**	W05567	40642	**Collection Date:** 11/25/2008 09:30
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 11/25/2008

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
8345289	TC-99	4.92E+02	pCi/L	3.4E+01		9.60E+00	100.0	5.48E+02	TC99_SEP_LS	1.25E-01	01/09/2009			70	D
BS	14133-76-7			1.3E+01				89.8		L	22:11			130	

TestAmerica
rptFeadRadEdd v3.68

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

Monday, January 19, 2009

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id: K4EP41CS **Sdg/Rept Nbr:** W05567 40642 **Collection Date:** 11/23/2008 12:50

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 11/24/2008

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
8345292	I-129L	9.66E+00	pCi/L	1.2E+00		3.78E-01	93.4	9.65E+00	I129LL_SEP_L	3.9894E+00	01/09/2009			70	D
BS	15046-84-1			1.2E+00				100.1		L	07:25			130	

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

Monday, January 19, 2009

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id:	K4EP82CS	**Sdg/Rept Nbr:**	W05567	40642	**Collection Date:** 11/24/2008 11:49
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 11/24/2008

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
8345295	ALPHA	2.62E+01	pCi/L	6.3E+00		1.09E+00	100.0	2.30E+01	9310_ALPHAB	2.00E-01	01/15/2009			70	D
BS	12587-46-1			3.3E+00				114.2		L	13:31			130	

TestAmerica

rptFeadRadEdd v3.68

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

Monday, January 19, 2009

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id:	K4EQD1CS	**Sdg/Rept Nbr:**	W05567	40642	**Collection Date:** 11/24/2008 11:49
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 11/24/2008

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
8345296	BETA	2.69E+01	pCi/L	4.9E+00		3.09E+00	100.0	2.32E+01	9310_ALPHAB	2.00E-01	01/14/2009			70	D
BS	12587-47-2			2.8E+00				115.7		L	11:53			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, January 19, 2009

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id: K4EQH1CS **Sdg/Rept Nbr:** W05567 40642 **Collection Date:** 11/24/2008 10:07

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 11/24/2008

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
8345298	SR-90	1.33E+01	pCi/L	2.1E+00		1.01E+00	49.5	1.36E+01	SRISO_SEP_P	1.0008E+00	01/15/2009			70	D
BS	10098-97-2			9.3E-01				98.0		L	04:14			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, January 19, 2009

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id:	K4EQK1CS	**Sdg/Rept Nbr:**	W05567	40642	**Collection Date:** 11/21/2008 09:11
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 11/21/2008

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
8345299	CO-60	3.93E+01	pCi/L	7.2E+00		2.92E+00		3.67E+01	GAMMALL_GS	2.00E+00	01/08/2009			70	D
BS	10198-40-0			7.2E+00				107.2		L	19:31			130	
8345299	CS-137	5.35E+01	pCi/L	9.2E+00		3.56E+00		4.96E+01	GAMMALL_GS	2.00E+00	01/08/2009			70	D
BS	10045-97-3			9.2E+00				107.8		L	19:31			130	
8345299	EU-152	7.76E+01	pCi/L	1.4E+01		8.62E+00		7.58E+01	GAMMALL_GS	2.00E+00	01/08/2009			70	D
BS	14683-23-9			1.4E+01				102.4		L	19:31			130	

TestAmerica
rptFeadRadEdd v3.68

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

Monday, January 19, 2009

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id: K4EQN1CS **Sdg/Rept Nbr:** W05567 40642 **Collection Date:** 11/24/2008 11:49

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 11/24/2008

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
8345301	H-3	2.47E+03	pCi/L	2.2E+02		3.03E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	01/03/2009			70	D
BS	10028-17-8			2.0E+02				90.7		L	15:34			130	

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

Monday, January 19, 2009

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id:	K4EQN1EM	**Sdg/Rept Nbr:**	W05567	40642	**Collection Date:** 11/24/2008 11:49
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 11/24/2008

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8345301	H-3	2.57E+03	pCi/L	2.2E+02		3.13E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	01/03/2009			70	D
BS	10028-17-8			2.1E+02				94.5		L	18:18			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, January 19, 2009

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id:	K3LVJ1CR	**Sdg/Rept Nbr:**	W05567	40642	**Collection Date:** 11/21/2008 09:11
Client Id:	B1XMJ2	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 11/21/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S09-011	MW6-SBB-A19981								AS	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8345299	BE-7	-3.72E+00	pCi/L	3.0E+01	U	5.18E+01			GAMMALL_GS	2.00E+00	01/08/2009	0.0	0.1		D
DUP	13966-02-4	-4.80E+00		3.0E+01						L	22:28	20.0	3		
8345299	CO-60	3.88E-01	pCi/L	2.0E+00	U	3.84E+00			GAMMALL_GS	2.00E+00	01/08/2009	19.6	0.1		D
DUP	10198-40-0	4.72E-01		2.0E+00						L	22:28	20.0	3		
8345299	CS-134	9.38E-01	pCi/L	2.2E+00	U	4.06E+00			GAMMALL_GS	2.00E+00	01/08/2009	115.9	0.4		D
DUP	13967-70-9	2.50E-01		2.2E+00						L	22:28	20.0	3		
8345299	CS-137	2.59E-01	pCi/L	2.1E+00	U	3.72E+00			GAMMALL_GS	2.00E+00	01/08/2009	133.5	0.1		D
DUP	10045-97-3	5.15E-02		2.1E+00						L	22:28	20.0	3		
8345299	EU-152	3.51E+00	pCi/L	5.6E+00	U	9.81E+00			GAMMALL_GS	2.00E+00	01/08/2009	1103.4	1.5		D
DUP	14683-23-9	-2.43E+00		5.6E+00						L	22:28	20.0	3		
8345299	EU-154	2.43E-01	pCi/L	4.7E+00	U	8.78E+00			GAMMALL_GS	2.00E+00	01/08/2009	0.0	0.5		D
DUP	15585-10-1	-1.48E+00		4.7E+00						L	22:28	20.0	3		
8345299	EU-155	9.83E-01	pCi/L	4.2E+00	U	7.14E+00			GAMMALL_GS	2.00E+00	01/08/2009	0.0	0.7		D
DUP	14391-16-3	-1.08E+00		4.2E+00						L	22:28	20.0	3		
8345299	K-40	-3.21E+01	pCi/L	4.8E+01	U	9.86E+01			GAMMALL_GS	2.00E+00	01/08/2009	0.0	0.8		D
DUP	13966-00-2	-6.04E+00		4.8E+01						L	22:28	20.0	3		
8345299	RU-106	-5.42E+00	pCi/L	2.0E+01	U	3.49E+01			GAMMALL_GS	2.00E+00	01/08/2009	0.0	0.3		D
DUP	13967-48-1	-9.35E-01		2.0E+01						L	22:28	20.0	3		
8345299	SB-125	-9.84E-01	pCi/L	5.1E+00	U	8.76E+00			GAMMALL_GS	2.00E+00	01/08/2009	0.0	0.1		D
DUP	14234-35-6	-1.49E+00		5.1E+00						L	22:28	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, January 19, 2009

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id:	K3N0L1CR	**Sdg/Rept Nbr:**	W05567	40642	**Collection Date:** 11/25/2008 09:30
Client Id:	B1XTK7	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 11/25/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W09-011	MW6-SBB-A19981								AT	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
8345289	TC-99	4.03E+01	pCi/L	8.2E+00		9.64E+00	100.0		TC99_SEP_LS	1.251E-01	01/09/2009	3.0	0.2		D
DUP	14133-76-7	3.91E+01		5.4E+00						L	22:11	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, January 19, 2009

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id:	K3NLQ1CR	**Sdg/Rept Nbr:**	W05567	40642	**Collection Date:** 11/24/2008 10:07
Client Id:	B1XHP5	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 11/24/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I09-005	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
8345298	SR-90	1.28E-01	pCi/L	3.5E-01	U	7.32E-01	66.1		SRISO_SEP_P	9.847E-01	01/15/2009	665.5	0.8		D
DUP	10098-97-2	-6.90E-02		3.5E-01						L	04:14	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.

Monday, January 19, 2009

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id: K3NLR1FR
Client Id: B1XJC9
Moisture/Solids%*:

Sdg/Rept Nbr: W05567 40642
Matrix: WATER WATER
QC Type: DUP

Collection Date: 11/24/2008 11:49
Sample On Date:
Received Date: 11/24/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I09-005	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
8345295	ALPHA	5.54E-01	pCi/L	6.9E-01	U	1.11E+00	100.0		9310_ALPHAB	2.00E-01	01/14/2009	80.7	0.7		D
DUP	12587-46-1	2.36E-01		6.8E-01						L	19:26	20.0	3		

TestAmerica
rptFeadRadEdd v3.68

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

Monday, January 19, 2009

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id: K3NLR1GR **Sdg/Rept Nbr:** W05567 40642 **Collection Date:** 11/24/2008 11:49

Client Id: B1XJC9 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 11/24/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I09-005	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
8345296	BETA	3.71E+00	pCi/L	1.7E+00		2.93E+00	100.0		9310_ALPHAB	2.00E-01	01/14/2009	10.3	0.3		D
DUP	12587-47-2	4.11E+00		1.6E+00						L	11:53	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, January 19, 2009

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id:	K3NLR1HR	**Sdg/Rept Nbr:**	W05567	40642	**Collection Date:** 11/24/2008 11:49
Client Id:	B1XJC9	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 11/24/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I09-005	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
8345301	H-3	1.54E+03	pCi/L	1.9E+02		3.04E+02	100.0		906.0_H3_LSC	5.00E-03	01/03/2009	1.2	0.1		D
DUP	10028-17-8	1.52E+03		1.8E+02						L	21:01	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, January 19, 2009

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id:	K3NPX1CR	**Sdg/Rept Nbr:**	W05567	40642	**Collection Date:** 11/23/2008 12:50
Client Id:	B1XL79	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 11/24/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I09-008	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
8345292	I-129L	3.28E-02	pCi/L	1.3E-01	U	2.47E-01	97.0		I129LL_SEP_L	3.876E+00	01/08/2009	52.7	0.1		D
DUP	15046-84-1	1.91E-02		1.3E-01						L	18:27	20.0	3		

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

Monday, January 19, 2009

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id:	K3NQN1ER	**Sdg/Rept Nbr:**	W05567	40642	**Collection Date:** 11/24/2008 10:07
Client Id:	B1XLN3	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 11/24/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I09-009	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
8345287	Uranium	1.88E+00	ug/L	2.0E-01		8.35E-02			UTOT_KPA	2.51E-02	01/16/2009	6.3	0.8		D
DUP	7440-61-1	1.77E+00		2.0E-01						ML	13:30	20.0	3		

TestAmerica

rptFeadRadEdd v3.68

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

Monday, January 19, 2009

TestAmerica Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id: K3N0N1CW **Sdg/Rept Nbr:** W05567 40642 **Collection Date:** 11/25/2008 07:50

Client Id: B1XTK9 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** MS **Received Date:** 11/25/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W09-011	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
8345289	TC-99	3.24E+03	pCi/L	2.0E+02		9.83E+00	100.0	3.61E+03	TC99_SEP_LS	1.25E-01	01/09/2009			60	D
MS	14133-76-7			3.2E+01				89.8		L	22:11			140	

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

Monday, January 19, 2009

TestAmerica Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05567.Edd, h:\Reportdb\edd\FeadIV\Rad\40642.Edd

Lab Sample Id:	K3NQN1DW	**Sdg/Rept Nbr:**	W05567	40642	**Collection Date:** 11/24/2008 10:07
Client Id:	B1XLN3	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	MS		**Received Date:** 11/24/2008

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I09-009	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
8345287	Uranium	3.31E+01	ug/L	4.3E+00		8.35E-02		3.65E+01	UTOT_KPA	2.51E-02	01/16/2009			60	D
MS	7440-61-1			4.3E+00				90.7		ML	13:26			140	

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

TestAmerica

TA Richland
Hexavalent Chromium - Water

Analyst:	L. Dinh	Calibration Curve Information				SOP Information		BATCH #	8331280
Start Date:	11/24/2008		Amount	Conc.(mg/L)	ABS.	RL-WC-003		SDG #	W05567
Start Time:		Blank	0.000	0.000	0.000	Revision 0		Matrix	Water
End Date:	11/24/2008	Std. 1	0.100	0.050	0.088				
End Time		Std. 2	0.500	0.250	0.466			Instrument Information	
		Std. 3	0.750	0.375	0.706	MDL (mg/L)	0.0037	Instrument:	Hach DR2010
Analyst Signature:		Std. 4	1.500	0.750	1.396			Wavelength:	540
		Std 5	2.000	1.000	1.864			R Squared	0.99997
Date:	11/26/08	Standard Volume (mL):			100.000			Slope:	1.86520
		Date of Curve:			11/24/2008			Intercept:	-0.00052

	Calibration Information:	ICV Information:		LCS Information:		Matrix Spike Information:	
Dilution ID #	Cr-08-00263	Cr-08-00264		Cr-08-00263		Cr-08-00263	
Prep Date:	11/24/08	11/24/08		11/24/08		11/24/08	
Concentration (mg/L)	50	50		50		50	
Expiration Date:	11/25/08	11/25/08		11/25/08		11/25/08	
Pipettor(s)	70,190	190		190		190	
Volume Used (Expected Value		1.000	0.50000	1.00	0.50000	0.50	0.26316

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

Sample ID	Client ID	Type	Sample Volume (mL)	Sample ABS.	Blank ABS.	Corrected ABS.	Dilution Factor	Curve Conc. (mg/L)	Final Conc. (mg/L)	% Rec.
n/a	n/a	ICV	100.000	0.932	0.000	0.932	1	0.5000	0.500	99.99%
n/a	n/a	ICB	100.000	0.000	0.000	0.000	1	<MDL	<MDL	
K3PHQ1AA	n/a	Prep Blank	100.000	-0.006		-0.006	1	<MDL	<MDL	
K3PHQ1AC	n/a	LCS	100.000	0.951		0.951	1	0.5101	0.510	102.03%
K3NLE1AA	B1XKH1'	Sample	100.000	0.311		0.311	1	0.1670	0.167	SCS 12/27/08
K3NLE1AC-S	B1XKH1'-MS	MS	100.000	0.808		0.808	1	0.4335	~~0.433~~ 0.266	101.25%
K3NLE1AD-D	B1XKH1'-MSD	MSD	100.000	0.810		0.810	1	0.4345	~~0.435~~ 0.268	101.66%
K3NLE1AE-X	B1XKH1'-DUP	Duplicate	100.000	0.310		0.310	1	0.1665	0.166	
K3NQN1AA	B1XLN3'	Sample	100.000	0.121		0.121	1	0.0652	0.065	
K3NLR1AA	B1XJC9'	Sample	100.000	0.040		0.040	1	0.0217	0.022	
			100.000				1			
			100.000				1			
n/a	n/a	CCV	100.000	0.931		0.931	1	0.4994	0.499	99.88%
n/a	n/a	CCB	100.000	-0.002		-0.002	1	<MDL	<MDL	
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			

TESTAMERICA 47 AMENDED REPORT

TESTAMERICA

TestAmerica

TA Richland
Hexavalent Chromium - Water

Analyst:	D. Petty	Calibration Curve Information				SOP Information		BATCH #	8338511
Start Date:	12/3/2008		Amount	Conc.(mg/L)	ABS.	RL-WC-003		SDG #	W05567
Start Time:		Blank	0.000	0.000	0.000	Revision 0		Matrix	Water
End Date:	12/3/2008	Std. 1	0.100	0.050	0.095				
End Time		Std. 2	0.500	0.250	0.474			Instrument Information	
		Std. 3	0.750	0.375	0.7	MDL (mg/L)	0.0037	Instrument:	Hach DR2010
Analyst Signature:		Std. 4	1.500	0.750	1.326			Wavelength:	540
		Std 5	2.000	1.000	1.817			R Squared	0.99933
Date:	12/18/08	Standard Volume (mL):			100.000			Slope:	1.79445
		Date of Curve:			12/3/2008			Intercept:	0.01008

	Calibration Information:	ICV Information:		LCS Information:		Matrix Spike Information:	
Dilution ID #	Cr-08-00269	Cr-08-00270		Cr-08-00269		Cr-08-00269	
Prep Date:	12/03/08	12/03/08		12/03/08		12/03/08	
Concentration (mg/L)	50	50		50		50	
Expiration Date:	12/04/08	12/04/08		12/04/08		12/04/08	
Pipettor(s)	70,190	190		190		190	
Volume Used / Expected Value		1.000	0.50000	1.00	0.50000	0.50	0.26316

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

Sample ID	Client ID	Type	Sample Volume (mL)	Sample ABS.	Blank ABS.	Corrected ABS.	Dilution Factor	Curve Conc. (mg/L)	Final Conc. (mg/L)	% Rec.
n/a	n/a	ICV	100.000	0.936	0.000	0.936	1	0.5160	0.516	103.20%
n/a	n/a	ICB	100.000	0.000	0.000	0.000	1	<MDL	<MDL	
K31WM1AA	n/a	Prep Blank	100.000	0.000		0.000	1	<MDL	<MDL	
K31WM1AC	n/a	LCS	100.000	0.931		0.931	1	0.5132	0.513	102.64%
K3086 IAA	B1XX32	Sample	100.000	0.017		0.017	1	0.0039	0.004	SKS 12/27/08
~~K308C-S~~ *	B1XX32-MS	MS	100.000	0.517		0.517	1	0.2825	~~0.282~~ 0.278	105.88%
~~K308D-D~~ **	B1XX32-MSD	MSD	100.000	0.517		0.517	1	0.2825	~~0.282~~ 0.278	105.88%
~~K308E-X~~ ***	B1XX32-DUP	Duplicate	100.000	0.016		0.016	1	0.0033	<MDL	
SKS 12/27/08			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
n/a	n/a	CCV	100.000	0.932		0.932	1	0.5138	0.514	102.75%
n/a	n/a	CCB	100.000	0.000		0.000	1	<MDL	<MDL	
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			

* K3086IAC
** K3086IAD
*** K3086IAE
SKS 12/27/08

Lot No., Due Date: J8K250357; 01/19/2009

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8345295; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05567; 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=> K3NLR1AF ALPHA 81.0 (RPD)		✓	
8.14 LCS within Control Limits. LCS Exceeds Control Limit => K4EP81AC ALPHA 45 L:70|130 Q:S0		✓	
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK	✓		
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => ALPHA OK; No Callin Level Found => ALPHA	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

8.26 Instruments have Current Calibrations. Yes No N/A

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

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

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

8.3 Comments:
NCM 10-13676

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

First Level Review Lisa Anderson Date 11/6/09

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8345295

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: 1/19/09

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-13676**
NCM Initiated By: Lisa Antonson
Date Opened: 01/16/2009
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Alpha by GPC-Am
Lot #'s (Sample #'s): J8K250357 (2), J8L100000 (295),
QC Batches: 8345295,

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

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	01/16/2009	The LCS was recovered low in the original count. The sample was flamed and recounted with good results.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	01/16/2009	None at this time.

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: 1/16/2009

Lot No., Due Date: J8K250357; 01/19/2009

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8345296; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05567; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	✓		
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used OK	✓		
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!			✓
8.17 Tracer within Control Limits. OK	✓		
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	✓		
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => K3NLR1AE BETA 4.1E+00 L:2.9E+00		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => BETA OK; No Callin Level Found => BETA	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. 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 1/15/09

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8345296

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 Co Date: 1/15/09

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

1/15/2009 9:56:54 AM

Lot No., Due Date: J8K250357; 01/19/2009

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8345298; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05567; 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:
NCM 10-13660

First Level Review [signature] **Date** 1/15/09

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8345298

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: 1/15/09

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-13660**
NCM Initiated By: Lisa Antonson
Date Opened: 01/15/2009
Date Closed:

Classification: **Deficiency**
Status: **GLREVIEW**
Production Area: Environmental - Sep
Tests: Sr-85/90 by GPC-7
Lot #'s (Sample #'s): J8K250357 (1), J8L100000 (298),
QC Batches: 8345298,

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

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	01/15/2009	There was an obvious blank/LCS switch in this batch. The switch was verified by checking planchets in the count room. The data was corrected in rad calc with good results.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	01/15/2009	will monitor for additional switches.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

TestAmerica

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

1/9/2009 12:50:58 PM

Lot No., Due Date: J8K250157; 01/19/2009

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8345299; RGAMMA Gamma by GER

SDG, Matrix: W05567; 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** 1/9/09

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8345299

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: 1/12/09

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

TestAmerica

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

1/9/2009 3:38:37 PM

Lot No., Due Date: J8K250362,J8K250360; 01/19/2009

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8345292; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05567; 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** 1/9/09

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THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8345292

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: 1/12/09

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

1/13/2009 12:51:04 PM

Lot No., Due Date: J8K250169,J8K260105; 01/19/2009

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8345289; RTC99 Tc-99 by LSC

SDG, Matrix: W05567; WATER

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

8.26 Instruments have Current Calibrations. Yes No N/A

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

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

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

8.3 Comments:

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

First Level Review [signature] Date 1/13/09

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 8345289

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: 1/14/09

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

TestAmerica

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

1/5/2009 2:40:43 PM

Lot No., Due Date: J8K250357; 01/19/2009

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 8345301; RTRITIUM H-3 by LSC

SDG, Matrix: W05567; 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** 1-5-9

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8345301

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 Co Date: 1/10/09

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

Lot No., Due Date: J8K250365; 01/19/2009
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 8345287; RUNAT UNat by KPA
SDG, Matrix: W05567; 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 Incorrect Tracer/Vial => K4EP01AD UNSC<>UNSF Q:V9		✓	
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used No Count Analysis Size found in Batch Data!			✓
8.07 The Correct Count Geometry was Used. No Count Geometry found in Batch Data!			✓
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. No Count Duration Field Found in Batch Data!			✓
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. 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. Batch Positive Result => K3NQN1AC Uranium 1.8E+00 L:8.3E-02		✓	
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => Uranium OK; No Callin Level Found => Uranium	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

8.26 Instruments have Current Calibrations. Yes No N/A

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

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

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

8.3 Comments:

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

First Level Review Lisa Anderson **Date** 1/19/09

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 8345287

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: 1/19/09

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Richland Laboratory
Data Review Check List
Hexavalent Chromium

ENTERED SKS 1/15/09

Batch Number(s): **8331280**

Lab Sample Numbers or SDG: **W05567** J8K250355, J8K250357, Due 1/14

Method/Test/Parameter: **Cr+6 in Water / RL-WC-003** J8K250365

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: 11/26/08

Second-Level Review: SSeyer Date: 12/27/08

TestAmerica

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): **8338511**

Lab Sample Numbers or SDG: **W05567** J8L030233

Method/Test/Parameter: **Cr+6 in Water / RL-WC-003**

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

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

Comments on any "No" response:

Analyst: _____ Date: 12/18/08

Second-Level Review: SSegu Date: 12/27/08

TESTAMERICA

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S09-011-182
		Page 1 of 1

Collector: Scott E. Hamaker	Contact/Requester: Mike Neely	Telephone No.: 509-373-0654 MSIN FAX
SAF No.: S09-011	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV. NOVEMBER 2008	HNF-N-506-78/48	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
FY08 and FY09 samples cannot be in the same SDG.
Site-Wide Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B1XM89 ✓		W	11/21/08	1115	1x20-mL P	Activity Scan	6 Months	None
B1XM89 ✓		W	11/21/08	1115	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
						K3LV3		
								J8K250157
								W05567
								Due 01 05 09

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Scott E. Hamaker	Scott Hamaker	Scott Hamaker	11/21/08 1330	S. Smith	S. Smith	S. Smith	11/21/08 1330
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

AMENDED REPORT

TESTAMERICA

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S09-011-281
		Page 1 of 1

Collector Scott E. Hamaker	Contact/Requester Mike Neely	Telephone No. 509-373-0654 MSIN FAX
SAF No. S09-011	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV NOVEMBER 2008	HNF-N-506-18/48	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
FY08 and FY09 samples cannot be in the same SDG.
Site-Wide Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B1XMJ3	✓	W	11/21/08	0730	1x20-mL P	Activity Scan	6 Months	None
B1XMJ3	✓	W	11/21/08	0730	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
						K3LVV		
								J8R250157
								WD5567
								Due 010509

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Scott E. Hamaker / Scott Hamaker	11/21/08 1330	[illegible]	11/21/08 1330
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *

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

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

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AMENDED REPORT

TESTAMERICA

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST J8K250 W05567	C.O.C. # S09-011-280 Page 1 of 1

Collector: Scott E. Hamaker	Contact/Requester: Mike Neely	Telephone No.: 509-373-0654 MSIN FAX
SAF No.: S09-011	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV NOVEMBER 2008	HNF-W-506-18/48	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 ☐
FY08 and FY09 samples cannot be in the same SDG.
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B1XMJ2 ✓		W	11/21/08	0911	1x20-mL P	Activity Scan	6 Months	None
B1XMJ2 ✓		W	11/21/08	0911	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
						K3LVJ		
								157 J8K250 ~~158~~ W05567 Due 010509

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Scott E. Hamaker	Scott Hamaker	Scott Hamaker	11/21/08 1330	[illegible]	[illegible]	[illegible]	11/21/08 1330
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

AMENDED REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 11-21-08 1330 GM Screen Result .07

Client: CHPRC SDG #: W05567 NA[ ] SAF #: 509-011 NA [ ]

Work Order Number: J8K250157 Chain of Custody # 509-011-280 281 182

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

1 Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]

2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]

3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]

4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]

6. Number of samples in shipping container: 3

7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]

8 Samples have:
- ___ Tape
- ✓ Custody Seals SRS 11/21/09
- ___ 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: 11-21-08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

AMENDED REPORT

TESTAMERICA

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W09-011-168 Page 1 of 1

Collector Scott E. Hamaker	Contact/Requester Mike Neely	Telephone No. 509-373-0654 MSIN FAX
SAF No. W09-011	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA NOVEMBER 2008	HNF-N-506-18/48	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 ☐
FY08 and FY09 samples cannot be in the same SDG.
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B1XN99 ✓		W	11/21/08	0730	1x20-mL P	Activity Scan	6 Months	None
B1XN99 ✓		W	11/21/08	0730	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	6 Months	HCl to pH <2
						K3L09		
								J8K250169
								W05567
								Due 010508

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
Scott E. Hamaker	Scott Hamaker	11/21/08 1320	Yuyen Stair Neyra Rodan		11/21/08 1320
Relinquished By		Date/Time	Received By		Date/Time
Relinquished By		Date/Time	Received By		Date/Time
Relinquished By		Date/Time	Received By		Date/Time

Matrix *

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

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

AMENDED REPORT

TESTAMERICA

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W09-011-167
		Page 1 of 1

Collector: Scott E. Hamaker	Contact/Requester: Mike Neely	Telephone No.: 509-373-0654 MSIN FAX
SAF No.: W09-011	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA NOVEMBER 2008	HNF-N-506-18/48	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 ☐
FY08 and FY09 samples cannot be in the same SDG.
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B1XN98 ✓		W	11/21/08	0911	1x20-mL P	Activity Scan	6 Months	None
B1XN98 ✓		W	11/21/08	0911	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	6 Months	HCl to pH <2
						K3L04		
								NK
								J8K250157 68
								W05567

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Scott E. Hamaker / Scott Hamaker	11/21/08 1330	Megan Ridout / Megan Ridout	11/21/08 1330
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 Liquid
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wine
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

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

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AMENDED REPORT

TESTAMERICA

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W09-011-165
		Page 1 of 1

Collector Scott E. Hamaker	Contact/Requester	Telephone No. MSIN FAX
SAF No. W09-011	Sampling Origin	Purchase Order/Charge Code
Project Title RCRA NOVEMBER 2008	HNF-N-506-18/48	Ice Chest No. Temp.
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment	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 ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B1XN96 ✓		W	11/21/08	1003	1x20-mL P	Activity Scan	6 Months	None
B1XN96 ✓		W	11/21/08	1003	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	6 Months	HCl to pH <2
						K3LOV		
								N
								J8K250159 69
								W05567
								Due 01 05 09

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Scott E. Hamaker	Scott Hamaker		11/21/08 1330	S. Smith	S Smith		11/21/08 1330
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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AMENDED REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 11-21-08 1330 GM Screen Result .07

Client: CHPRC SDG #: W05567 NA[ ] SAF #: W09-011 NA[ ]

Work Order Number: J8K250169 Chain of Custody # W09-011-1165 167 168

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

1 Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]

2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]

3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]

4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]

6. Number of samples in shipping container: 3

7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]

8 Samples have:
- ✓ Tape
- ✓ Custody Seals
- NR Hazard Lables
- ✓ Appropriate Sample Lables

9. Samples are: SKS 11/21/09
- ✓ 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: Nuyen Kinkari Date: 11-21-08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

AMENDED REPORT

TESTAMERICA

CHPRC

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I09-006-167

Page 1 of 1

Collector R. A. Shepard	Contact/Requester Mike Neely	Telephone No. 509-373-0654 MSIN FAX
SAF No. I09-006	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 100KR4IAM(1/2), NOVEMBER 2008	HNF-N-506-18	Ice Chest No. Temp.
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol CERCLA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time
FY08 and FY09 samples cannot be in the same SDG.
100 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B1XKH1 ✓		W	11/24/08	1006	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	24 Hours	Cool~4C
B1XKH1 ✓		W	↓	↓	1x20-mL P	Activity Scan	6 Months	None
						K3NLE		
								J8K250355
								W0556678
			11/24/08					Due 01 08 09

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. A. Shepard			11-24-08 1240				11-24-08 1240
Relinquished By			Date/Time	Received By			Date/Time
			11-24-08 1400				11-24-08 1400
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

AMENDED REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 11-24-08 1400 GM Screen Result .01

Client: CHPRC SDG #: W05567 NA[ ] SAF #: I09-006 NA[ ]

Work Order Number: J8K250355 Chain of Custody # I09-006-167

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

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: 4°C SKS 5/21/09 NA [✓] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   - ___ Tape
   - ✓ Custody Seals
   - ___ Hazard Lables
   - 1 Appropriate Sample Lables

   SKS 5/21/09
9. Samples are:
   - 1 In Good Condition
   - ___ Broken
   - ___ Leaking
   - ___ Have Air Bubbles

   (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ] Amount HNO_3 Added ___
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: Renee Kitari Date: 11-24-08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on ___ by ___ Person Contacted ___

[ ] No action necessary; process as is.

Project Manager ___ Date ___

AMENDED REPORT

TESTAMERICA

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C.# I09-005-464
		Page 1 of 1

Collector R. A. Shepard	Contact/Requester Mike Neely	Telephone No. 509-373-0654 MSIN FAX
SAF No. 109-005	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 100HR3IAM(1/2) NOVEMBER 2008	HNF-U-506-18	Ice Chest No. Temp.
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol CERCLA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time
FY08 and FY09 samples cannot be in the same SDG.
100 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B1XJC9 ✓		W	11/24/08	1149	1x20-mL P	Activity Scan	6 Months	None
B1XJC9 ✓		W	↓	↓	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	24 Hours	Cool~4C
B1XJC9 ✓		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	6 Months	None
B1XJC9 ✓		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	6 Months	HNO3 to pH <2
						K3NLR		
								J8K250357
								WO5567
								Due 01 08 09
			11/24/08					

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. A. Shepard			11/24/08 1240	Fun Hall			11-24-08 1240
Fun Hall			11-24-08 1400	Rhonda Wagner			11-24-08 1400

Matrix *

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

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

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AMENDED REPORT

TESTAMERICA

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I09-005-162 Page 1 of 1

Collector D. Woehle	Contact/Requester Mike Neely	Telephone No. 509-373-0654 MSIN FAX
SAF No. I09-005	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 100HR3IAM(1/2), NOVEMBER 2008	HWF-N-506/6	Ice Chest No. Temp.
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol CERCLA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time
FY08 and FY09 samples cannot be in the same SDG.
100 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B1XHP5 ✓		W	11/24/08	1005	1x20-mL P	Activity Scan	6 Months	None
B1XHP5 ✓		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	6 Months	HNO3 to pH <2
						K3NLG		
								J8K250357
								W05567
								Due 010809

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. Woehle			11-24-08 1300	FM Hall			NOV 24 2008 1300
FM Hall			NOV 24 2008 1400	EED			11-24-08 NOV 24 2008 1400 11-24-08

Matrix *

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

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

AMENDED REPORT

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 11-24-08 1400 GM Screen Result .01

Client: CHPRC SDG #: WC5567 NA[ ] SAF #: I09-005 NA[ ]

Work Order Number: J8K25CB57 Chain of Custody # I09-005-1602 464

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

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? SKS 5/21/09 NA [ ] Yes [✓] No [ ]
4. Cooler Temperature: 4°C ~~NA [✓]~~ 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 8
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   - ✓ Tape
   - ✓ Custody Seals
   - ✓ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are: SKS 5/21/09
   - ✓ In Good Condition
   - ✓ Broken
   - Leaking
   - Have Air Bubbles (Only for samples requiring no head space.)

SKS 5/21/09

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: 11-24-08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TESTAMERICA

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C.# I09-008-108
		Page 1 of 1

Collector: D. Woehle	Contact/Requester: Mike Neely	Telephone No.: 509-373-0654 MSIN FAX
SAF No.: 109-008	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 22PL NOVEMBER 2008	HNF-N-506 16 pg 70	Ice Chest No. Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt Vehicle	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
FY08 and FY09 samples cannot be in the same SDG.
200 Area Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B1XL79 ✓		W	11/23/08	1250	1x20-mL P	Activity Scan	6 Months	None
B1XL79 ✓		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
						K3NPX		
								J8K250360
								W05567
								Due 070809

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. Woehle	D. Woehle		11-24-08 0730	FM	HALL		11-24-08 0730
FM	HALL		11-24-08 1400	Rhonda Wyer			11-24-08 1400

Matrix *

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

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

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AMENDED REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 11-24-08 1400 GM Screen Result 101

Client: CHPRC SDG #: W05567 NA[ ] SAF #: E09-008 NA[ ]

Work Order Number: J8K250360 Chain of Custody # E09-008-108

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

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

   SCS 5/21/09
9. Samples are:
   - 1 In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles

   (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [ ] pH>9 [✓] Amount HNO_3 Added _____
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: 11-24-08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

AMENDED REPORT

TESTAMERICA

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I09-007-92 Page 1 of 1

Collector JP Herrick	Contact/Requester Mike Neely	Telephone No. 509-373-0654 MSIN FAX
SAF No. I09-007	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 2UPL NOVEMBER 2008	HNF-N-506-18/49	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 ☐
FY08 and FY09 samples cannot be in the same SDG.
200 Area Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B1XKX6		W	11/23/08	0958	1x20-mL P	Activity Scan	6 Months	None
B1XKX6		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
						K3NP9		
								J8K250362
								W05567
								Due 01 08 09

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
JP Herrick		0930 11-24-08	FM	HALL	0930 11-24-08
FM HALL		1400 11-24-08	Rhonda Wagner		1400 11-24-08
Relinquished By		Date/Time	Received By		Date/Time
Relinquished By		Date/Time	Received By		Date/Time

Matrix *

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

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

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AMENDED REPORT

TESTAMERICA

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I09-007-86
		Page 1 of 1

Collector: JP Herrick	Contact/Requester: Mike Neely	Telephone No.: 509-373-0654 MSIN FAX
SAF No.: 109-007	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2UP1 NOVEMBER 2008	HNF-N-506-18/49	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
** **

SPECIAL INSTRUCTIONS Hold Time — Total Activity Exemption: Yes ☑ No ☐
FY08 and FY09 samples cannot be in the same SDG.
200 Area Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B1XKX0 ✓		W	11/23/08	1101	1x20-mL P	Activity Scan	6 Months	None
B1XKX0 ✓		W	6	6	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
						K3NP8		
								J8K250362
								W05567
								Due 010809

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
JP Herrick	11-24-08 0930	FM Hall	11-24-08 0930
FM Hall	11-24-08 1400	Rhonda Wagner	11-24-08 1400

Matrix *

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

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

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AMENDED REPORT

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I09-007-100 Page 1 of 1

Collector JP Herrick	Contact/Requester Mike Neely	Telephone No. 509-373-0654 MSIN FAX
SAF No. 109-007	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 2UP1, NOVEMBER 2008	HNF-N-506-18/49	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 ☐
FY08 and FY09 samples cannot be in the same SDG.
200 Area Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B1XKY0 ✓		W	11/23/05	0958	1x20-mL P	Activity Scan	6 Months	None
B1XKY0 ✓		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
						K3NP6		
								J8K250362
								W05567
								Due 010509

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
JP Herrick			0930 11-24-08	FM	Hall		0930 11-24-08
FM Hall			1400 11-24-08	Rhonda Wagar			1400 11-24-08

Matrix *

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

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

TESTAMERICA

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I09-007-68 Page 1 of 1

Collector JP Herrick	Contact/Requester Mike Neely	Telephone No. 509-373-0654 MSIN FAX
SAF No. 109-007	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 2UPL NOVEMBER 2008	HNF-N-506-18/49	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
** **

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
FY08 and FY09 samples cannot be in the same SDG.
200 Area Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B1XKW0 ✓		W	11/23/08	1151	1x20-mL P	Activity Scan	6 Months	None
B1XKW0 ✓		W	✓	✓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
						K3NP5		
								J8K250362
								W05567
								Due 01 08 09

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
JP Herrick	A. Herrick	11-24-08 0930	FM HALL	[signature]	11-24-08 0930
FM HALL	[signature]	11-24-08 1400	Rhonda Wagar	[signature]	11-24-08 1400

Matrix *

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

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

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AMENDED REPORT

TESTAMERICA

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I09-007-87
		Page 1 of 1

Collector JP Herrick	Contact/Requester Mike Neely	Telephone No. 509-373-0654 MSIN FAX
SAF No. I09-007	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 2UP1 NOVEMBER 2008	HNF-N-506-18/49	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 ☐
FY08 and FY09 samples cannot be in the same SDG.
200 Area Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B1XKX1 ✓		W	11/23/08	0735	1x20-mL P	Activity Scan	6 Months	None
B1XKX1 ✓		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
						K3NP3		
								J8K250362
								W05567
								Due 01 08 09

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
JP Herrick			11-24-08 0930	FM	HALL		11-24-08 0930
FM	HALL		11-24-08 1400	Phonk Wagai			11-24-08 1400
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

AMENDED REPORT

TESTAMERICA

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I09-007-116 Page 1 of 1

Collector: JP Herrick	Contact/Requester: Mike Neely	Telephone No.: 509-373-0654 MSIN FAX
SAF No.: I09-007	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2UP1, NOVEMBER 2008	HNF-N-506-18/49	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 ☐
FY08 and FY09 samples cannot be in the same SDG.
200 Area Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B1XKY8 ✓		W	11/23/08	0832	1x20-mL P	Activity Scan	6 Months	None
B1XKY8 ✓		W	"	0832	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
						K3NP2		
								J8K250362
								W05567
								Due 01.08.09

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
JP Herrick			11-24-08 0930		FM Hall		11-24-08 0930
FM Hall			11-24-08 1400	Rhonda Wagg			11-24-08 1400

Matrix *

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

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

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AMENDED REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 11-24-08 1400 GM Screen Result 01

Client: CHPRC SDG #: W05567 NA[ ] SAF #: ~~W05~~ I09-007 NA[ ]

Work Order Number: J8K250362 Chain of Custody # I09-007-116 -87 -68 -100 -86 -92

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

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

   SKS 5/21/09
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: 11-24-08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

TESTAMERICA

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I09-009-136
		Page 1 of 1

Collector D. Woehle	Contact/Requester Mike Neely	Telephone No. 509-373-0654 MSIN FAX
SAF No. I09-009	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title ISRM NOVEMBER 2008	HNF-N-505-K	Ice Chest No. Temp.
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol CERCLA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time
FY08 and FY09 samples cannot be in the same SDG.
200 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B1XLN3 ✓		W	11/24/08	1007	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	24 Hours	Cool~4C
B1XLN3 ✓		W	↓	↓	1x20-mL P	Activity Scan	6 Months	None
B1XLN3 ✓		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	6 Months	HNO3 to pH <2
						K3NQN		
								J8K250365
								W05567
								Due 01 08 09

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. Woehle			NOV 24 2008	FM	HALL		NOV 24 2008
FM	HALL		11-24-08 1400	FED EX			11-24-08 1400

Matrix *

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

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

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AMENDED REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 11-24-08 1400 GM Screen Result .01

Client: CHPRC SDG #: W05567 NA[ ] SAF #: I09-009 NA[ ]

Work Order Number: J8K250365 Chain of Custody # I09-009-136

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

1 Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]

2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]

3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]

4. Cooler Temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]

6. Number of samples in shipping container: 1

7 Sample holding times exceeded? NA [ ] Yes [ ] No [✓]

8 Samples have:
_____ Tape
✓ Custody Seals SKS 5/21/09
_____ 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: _____

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

AMENDED REPORT

TESTAMERICA

TESTAMERICA

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W09-011-179
		Page 1 of 1

Collector: D. J. Sparks	Contact/Requester: Mike Neely	Telephone No.: 509-373-0654 MSIN FAX
SAF No.: W09-011	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA NOVEMBER 2008	HNF-N 526-16	Ice Chest No. C4-22-267 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**
FY08 and FY09 samples cannot be in the same SDG.
Site-Wide Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B1XTK9 ✓		W	11/25/08	0750	1x20-mL P	Activity Scan	6 Months	None
B1XTK9 ✓		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	6 Months	HCl to pH <2
						K3 NON		
								JSK260105
								W05567
								Due 010909

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	D. J. Sparks		NOV 25 2008 0745		Nagarajan		NOV 25 2008 1045
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

AMENDED REPORT

TESTAMERICA

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W09-011-178
		Page 1 of 1

Collector D. J. Sparks	Contact/Requester Mike Neely	Telephone No. 509-373-0654 MSIN FAX
SAF No. W09-011	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA NOVEMBER 2008	HWF-N-5614	Ice Chest No. CLUS-267 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 ☐
FY08 and FY09 samples cannot be in the same SDG.
Site-Wide Generator Knowledge Information Form applies.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B1XTK7 ✓		W	11/25/08	0930	1x20-mL P	Activity Scan	6 Months	None
B1XTK7 ✓		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	6 Months	HCl to pH <2
						K3NOL		
								J8K260105
								W05567
								01-09-09

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. J. Sparks			NOV 25 2008				NOV 25 2008 1045
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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AMENDED REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 11-25-08 1045 GM Screen Result .01

Client: CHPRC SDG #: W05567 NA( ) SAF #: W09-011 NA ( )

Work Order Number: J8K260105 Chain of Custody # W09.011-179

Shipping Container ID: 14/17 Air Bill # N/A

178
~~351~~
SKS ~~350~~
11/28/08

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: ~~4~~ 2

7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]

8 Samples have:
- ___ Tape
- ✓ Custody Seals
- SKS 11/21/09
- ___ 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: Mike Rubare Date: 11-25-08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

( ) No action necessary; process as is.

Project Manager _____ Date _____

TESTAMERICA

CHPRC

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I09-010-2

Page 1 of 1

Collector R. A. Shepard	Contact/Requester Dana Widrig	Telephone No. 509-376-2858 MSIN N/A FAX N/A
SAF No. I09-010	Sampling Origin Hanford Site	Purchase Order/Charge Code N/A
Project Title 100HR3IAM(1/2), DECEMBER 2008	HNF-N-506-18 Rg 54	Ice Chest No. Temp. N/A
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No. N/A
Protocol CERCLA	Priority: 45 Days	Offsite Property No. N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS Hold Time
FY08 and FY09 samples cannot be in the same SDG.
100 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B1XX32		W	12-3-08	0957	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	24 Hours	Cool~4C
B1XX32		W	12-3-08	0957	1x20-mL P	Activity Scan	6 Months	None
						K3086		
								J8L030233
								W05567
								Due 01.16.09
						JRC 12-3-08		

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. A. Shepard			DEC 03 2008 1020	R. Ellingsworth			DEC 03 2008 1020
R Ellingsworth			DEC 03 2008 1220				DEC 03 2008 1220

Matrix *

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

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

AMENDED REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 12·03·08 1320 GM Screen Result .01

Client: PGW SDG #: W05567 NA[ ] SAF #: I09-010 NA[ ]

Work Order Number: J8L030233 Chain of Custody # I09-010-2

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

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

   SCS 5/21/09
9. Samples are:
   - 1 In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles
   (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ] Amount HNO_3 Added ____
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: S. Ambuk Date: 12·03·08

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on ____ by ____ Person Contacted ____

[ ] No action necessary; process as is.

Project Manager ____ Date ____

AMENDED REPORT

TESTAMERICA

12/29/2008 8:22:14 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: 245

AnalyDueDate: 01/19/2009 W05567

Sep1 DT/Tm Tech:

Batch: 8345295 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,LaneL | Back 2

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 K3NLR-1-AD J8K250357-2-SAMP 11/24/2008 11:49		200.00g,in AmtRec: 20ML,500MLP,2XLP	#Containers: 4	1.5	37.5	50	12B	1731	1/14/09	Scr: Alpha: 1.86E-04 uCi/Sa Beta: -1.05E-04 uCi/Sa
2 K3NLR-1-AF-X J8K250357-2-DUP 11/24/2008 11:49		200.00g,in AmtRec: 20ML,500MLP,2XLP	#Containers: 4		37.4		12A	1951		Scr: Alpha: 1.86E-04 uCi/Sa Beta: -1.05E-04 uCi/Sa
3 K4EP8-1-AA-B J8L100000-295-BLK 11/24/2008 11:49		200.00g,in AmtRec:	#Containers: 1		0.5		12C			Scr: Alpha: Beta:
4 K4EP8-1-AC-C J8L100000-295-LCS 11/24/2008 11:49		200.00g,in AmtRec:	ASD4672 11/13/08,pd 03/26/03 r #Containers: 1		0.9		12B			Scr: Alpha: Beta:

Comments: pH<2.0. RJK 122908

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

K3NLR1AD-SAMP Constituent List:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
K4EP81AA-BLK:					
ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
K4EP81AC-LCS:					
Am-241	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

K3NLR1AD-SAMP Calc Info:

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AMENDED REPORT

12/29/2008 8:22:15 AM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 01/19/2009

Sep1 DT/Tm Tech:

Batch: 8345295 pCi/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,LaneL

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
K4EP81AA-BLK:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
K4EP81AC-LCS:
    Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RE-COUNT REQUEST

DUE DATE 1/19/09

CUSTOMER PGW

ANALAYSIS Alpha

MATRIX water

LOT NUMBER J8L250257

SAMPLE DELIVERY GROUP WO55E7

OLD BATCH NUMBER 83U5295

NEW BATCH NUMBER _____ - _____

LAB SAMPLE ID	CLIENT ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1) KL9P81AC		45% LCS
2)		
3)		
4)		
5)		
6)		
7)		
8)		
9)		
10)		
11)		
12)		
13)		
14)		
15)		
16)		
17)		
18)		
19)		
20)		

RC-126, 12/07, Rev 5

TESTAMERICA

1/15/2009 9:40:05 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 01/19/2009

Sep1 DT/Tm Tech:

Batch: 8345295 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 8331280 88EA, 8345295 AZS7, 8345296 BCS8, 8345298 CLTL, 8345301 ARS6,

Prep Tech: ,LaneL

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 K3NLR-1-AD J8K250357-2-SAMP 11/24/2008 11:49		200.00g,in AmtRec: 20ML,500MLP,2XLP	#Containers: 4					Scr:	Alpha: 1.86E-04 uCi/Sa	Beta: -1.05E-04 uCi/Sa
2 K3NLR-1-AF-X J8K250357-2-DUP 11/24/2008 11:49		200.00g,in AmtRec: 20ML,500MLP,2XLP	#Containers: 4					Scr:	Alpha: 1.86E-04 uCi/Sa	Beta: -1.05E-04 uCi/Sa
3 K4EP8-1-AA-B J8L100000-295-BLK 11/24/2008 11:49		200.00g,in AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:
4 K4EP8-1-AC-C J8L100000-295-LCS 11/24/2008 11:49		200.00g,in AmtRec:	ASD4672 11/13/08,pd 03/26/03,r #Containers: 1					Scr:	Alpha:	Beta:
5 K4EP8-2-AC-C J8L100000-295-LCS 11/24/2008 11:49		200.00g AmtRec:	ASD U672 #Containers: 1	1.5	0.9 1.4 GB 1-15-09	50	1.4	1357	1/15/09 m Scr:	Alpha:	Beta:

Comments:

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

J8NLR1AD-SAMP Constituent List:
ALPHA RDL:3 pCi/L LCL: UCL: RPD:

AMENDED REPORT

Sample Preparation/Analysis

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

AnalyDueDate: 01/19/2009

Batch: 8345295 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:

```
K4EP81AA-BLK:
  ALPHA        RDL:3          pCi/L    LCL:      UCL:      RPD:
K4EP81AC-LCS:
  Am-241       RDL:           pCi/L    LCL:70    UCL:130   RPD:20
K4EP82AC-LCS:

K3NLR1AD-SAMP Calc Info:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
K4EP81AA-BLK:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
K4EP81AC-LCS:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
K4EP82AC-LCS:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

Approved By _____ Date: _____

TESTAMERICA

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AMENDED REPORT

1/16/2009 2:01:57 PM

ICOC Fraction Transfer/Status Report

ByDate: 1/17/2008, 1/21/2009, Batch: '8345295', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8345295						
AC		Rev1C	LaneL	12/29/2008 8:16:40		
SC			wagarr	IsBatched	12/10/2008 2:35:48 PM	ICOC_RADCALC v4.8.35
SC			LaneL	InPrep	12/29/2008 8:16:40 AM	RL-PRP-004 REVISION 0
SC			LaneL	Prep1C	12/29/2008 8:22:33 AM	RL-PRP-004 REVISION 0
SC			BockJ	InPrep2	1/12/2009 5:26:37 PM	RL-GPC-001 REVISION 0
SC			BockJ	Prep2C	1/14/2009 9:57:45 AM	RL-GPC-001 REVISION 0
SC			ClarkR	InCnt1	1/14/2009 10:06:09 AM	RL-CI-006 REVISION 0
SC			BlackCL	CalcC	1/15/2009 12:21:00 AM	RL-CI-006 REVISION 0
SC			ClarkR	InCnt1	1/15/2009 10:02:26 AM	RL-CI-006 REVISION 0
SC			DAWKINSO	CalcC	1/15/2009 10:15:17 PM	RL-CI-006 REVISION 0
SC			antonsonl	Rev1C	1/16/2009 2:01:50 PM	RL-DR-001 REV 0
AC			LaneL	12/29/2008 8:22:33		
AC			BockJ	1/12/2009 5:26:37 PM		
AC			BockJ	1/14/2009 9:57:45		
AC			ClarkR	1/14/2009 10:06:09		
AC			BlackCL	1/15/2009 12:21:00		
AC			ClarkR	1/15/2009 10:02:26		
AC			DAWKINSO	1/15/2009 10:15:17		
AC			antonsonl	1/16/2009 2:01:50 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 9

ICOCFractions v4.8.35

TESTAMERICA

12/29/2008 8:28:12 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: 245

AnalyDueDate: 01/19/2009 W05567

Sep1 DT/Tm Tech:

Batch: 8345296 WATER pCi/L **PM, Quote: SS , 57671**
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,LaneL | Back 9

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 K3NLR-1-AE J8K250357-2-SAMP 11/24/2008 11:49		200.00g,in AmtRec: 20ML,500MLP,2XLP #Containers: 4		1.5	77.7	100	72A Scr:	1244 Alpha: 1.86E-04 uCi/Sa	1/14/08 pd Beta: -1.05E-04 uCi/Sa	
2 K3NLR-1-AG-X J8K250357-2-DUP 11/24/2008 11:49		200.00g,in AmtRec: 20ML,500MLP,2XLP #Containers: 4			77.3		72B Scr:	Alpha: 1.86E-04 uCi/Sa	Beta: -1.05E-04 uCi/Sa	
3 K4EQD-1-AA-B J8L100000-296-BLK 11/24/2008 11:49		200.00g,in AmtRec: #Containers: 1			0.2		72C Scr:	Alpha:	Beta:	
4 K4EQD-1-AC-C J8L100000-296-LCS 11/24/2008 11:49		200.00g,in AmtRec: #Containers: 1	BESB3382 10/22/08,pd 07/14/06 r		0.4		72D Scr:	Alpha:	Beta:	

Comments: PH < 2.0, RJR 122908

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

K3NLR1AE-SAMP Constituent List:

BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
K4EQD1AA-BLK:					
BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
K4EQD1AC-LCS:					
Sr-90	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

K3NLR1AE-SAMP Calc Info:

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AMENDED REPORT

12/29/2008 8:28:12 AM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 01/19/2009

Sep1 DT/Tm Tech:

Batch: 8345296 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,LaneL

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

K4EQD1AA-BLK:

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

K4EQD1AC-LCS:

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

Approved By _____ Date: _____

1/15/2009 9:13:40 AM

ICOC Fraction Transfer/Status Report

ByDate: 1/16/2008, 1/20/2009, Batch: '8345296', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8345296						
AC		**Rev1C**	**LaneL**	12/29/2008 8:24:02		
SC			wagarr	IsBatched	12/10/2008 2:35:48 PM	ICOC_RADCALC v4.8.35
SC			LaneL	InPrep	12/29/2008 8:24:02 AM	RL-PRP-004 REVISION 0
SC			LaneL	Prep1C	12/29/2008 8:29:07 AM	RL-PRP-004 REVISION 0
SC			BockJ	InPrep2	1/12/2009 5:26:42 PM	RL-GPC-001 REVISION 0
SC			BockJ	Prep2C	1/14/2009 9:58:17 AM	RL-GPC-001 REVISION 0
SC			ClarkR	InCnt1	1/14/2009 10:07:16 AM	RL-CI-006 REVISION 0
SC			BlackCL	CalcC	1/15/2009 12:20:27 AM	RL-CI-006 REVISION 0
SC			antonsonl	Rev1C	1/15/2009 9:13:33 AM	RL-DR-001 REV 0
AC			**LaneL**	12/29/2008 8:29:07		
AC			**BockJ**	1/12/2009 5:26:42 PM		
AC			**BockJ**	1/14/2009 9:58:17		
AC			**ClarkR**	1/14/2009 10:07:16		
AC			**BlackCL**	1/15/2009 12:20:27		
AC			**antonsonl**	1/15/2009 9:13:33		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.35

TESTAMERICA

1/5/2009 9:32:41 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 01/19/2009

Balance Id: 1117411003
Pipet #:
Sep1 DT/Tm Tech: 1-6-09 1043 am
Sep2 DT/Tm Tech: 1-13-09 1015 am
Prep Tech: ,McDowellD

Batch: 8345298 **WATER** **pCi/L** **PM, Quote: SS , 57671**
SEQ Batch, Test: None All Tests: 8331280 88EA, 8345295 AZS7, 8345296 BCS8, 8345298 CLTL, 8345301 ARS6,

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 K3NLQ-1-AA J8K250357-1-SAMP 11/24/2008 10:07	YTA19200 Ex:4/29/2009	999.70g,in	SRTB16478 12/12/08,pd 10/29/08 r		1.5	013.3	100	3" SD SD	1243 0514 0524	1/6/09 RC 1/14/09 1/15/09	
1922 / 2089.6 = .9198 AmtRec: 20ML,3XLP #Containers: 4								Scr:	Alpha: 4.50E-04 uCi/Sa	Beta: -3.25E-04 uCi/Sa	
2 K3NLQ-1-AC-X J8K250357-1-DUP 11/24/2008 10:07	YTA19201 Ex:4/29/2009	984.70g,in	SRTB16479 12/12/08,pd 10/29/08 r			018.4		3" SD SD	1317 0514 0524	1/6/09 RC 1/14/09 1/15/09	
1901 / 2082.6 = .9128 AmtRec: 20ML,3XLP #Containers: 4								Scr:	Alpha: 4.50E-04 uCi/Sa	Beta: -3.25E-04 uCi/Sa	
3 K4EQH-1-AA-B J8L100000-298-BLK 11/24/2008 10:07	YTA19202 Ex:4/29/2009	1000.40g,in	SRTB16480 12/12/08,pd 10/29/08 r			015.3		3" SD SD	1349 0514 0524	1/6/09 RC 1/14/09 1/15/09	
1847 / 2082.6 = .8869 AmtRec: #Containers: 1								Scr:	Alpha:	Beta:	
4 K4EQH-1-AC-C J8L100000-298-LCS 11/24/2008 10:07	YTA19203 Ex:4/29/2009	1000.80g,in	SRSG1514 12/12/08,pd 10/29/08 r			015.3		3" SD SD	1427 0514 0524	1/6/09 RC 1/14/09 1/15/09	
1710 / 2069 = .8265 AmtRec: #Containers: 1								Scr:	Alpha:	Beta:	

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AMENDED REPORT

TestAmerica Richland Wa. Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 4 Prep. SamplePrep v4.8.34

1/15/2009 9:55:59 AM

ICOC Fraction Transfer/Status Report

ByDate: 1/16/2008, 1/20/2009, Batch: '8345298', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8345298						
AC		Rev1C	McDowellD	1/5/2009 9:13:13 AM		
SC			wagarr	IsBatched	12/10/2008 2:35:48 PM	ICOC_RADCALC v4.8.35
SC			McDowellD	InPrep	1/5/2009 9:13:13 AM	RL-GPC-003 REV 0
SC			McDowellD	Sep1C	1/6/2009 11:53:05 AM	RL-GPC-003 REV 0
SC			ClarkR	InCnt1	1/6/2009 12:11:53 PM	RL-CI-007 REVISION 0
SC			ClarkR	Cnt1C	1/6/2009 2:34:34 PM	RL-CI-007 REVISION 0
SC			McDowellD	Sep2C	1/13/2009 2:04:25 PM	RL-GPC-004 REV 0
SC			BlackCL	CalcC	1/15/2009 5:43:31 AM	RL-CI-006 REVISION 0
SC			antonsonl	Rev1C	1/15/2009 9:55:50 AM	RL-DR-001 REV 0
AC			McDowellD	1/6/2009 11:53:05		
AC			ClarkR	1/6/2009 12:11:53 PM		
AC			ClarkR	1/6/2009 2:34:34 PM		
AC			McDowellD	1/13/2009 2:04:25 PM		
AC			BlackCL	1/15/2009 5:43:31		
AC			antonsonl	1/15/2009 9:55:50		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.35

TESTAMERICA

12/22/2008 11:01:35 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #:

AnalyDueDate: 01/19/2009 W05567

Sep1 DT/Tm Tech:

Batch: 8345299 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

Prep Tech: LaneL Back

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 K3LVJ-1-AA J8K250157-1-SAMP 11/21/2008 09:11		2000.00g,in AmtRec: 20ML,4LP #Containers: 2			100mls	200	G11	2155	1/8/09	Scr: Alpha: 4.32E-04 uCi/Sa Beta: -1.69E-04 uCi/Sa
2 K3LVJ-1-AC-X J8K250157-1-DUP 11/21/2008 09:11		AmtRec: 20ML,4LP #Containers: 2					G14	0148		Scr: Alpha: 4.32E-04 uCi/Sa Beta: -1.69E-04 uCi/Sa
3 K3LVV-1-AA J8K250157-2-SAMP 11/21/2008 07:30		2000.10g,in AmtRec: 20ML,4LP #Containers: 2					G14	2156		Scr: Alpha: -5.23E-04 uCi/Sa Beta: 6.28E-04 uCi/Sa
4 K3LV3-1-AA J8K250157-3-SAMP 11/21/2008 11:15		2000.10g,in AmtRec: 20ML,4LP #Containers: 2					G7 ~~G15~~ 1/8/09	2156		Scr: Alpha: 3.08E-03 uCi/Sa 2.3E-01L Beta: 9.51E-06 uCi/Sa
5 K4EQK-1-AA-B J8L100000-299-BLK 11/21/2008 09:11		2000.10g,in AmtRec: #Containers: 1					G8	2245		Scr: Alpha: Beta:
6 K4EQK-1-AC-C J8L100000-299-LCS 11/21/2008 09:11		2000.00g,in AmtRec: #Containers: 1	QCAG1521 08/26/08,pd 07/15/09 r				G5	2251		Scr: Alpha: Beta:

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AMENDED REPORT

TESTAMERICA

12/22/2008 11:01:36 AM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

AnalyDueDate: 01/19/2009

Sep1 DT/Tm Tech:

Batch: 8345299 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,LaneL

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: K3LVJ-SAMP "Comments No dup d/t ISV. LJL 122208"

PH<2.0. RJR 122208

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

K3LVJ1AA-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:

K4EQK1AA-BLK:

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

K4EQK1AC-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						

K3LVJ1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

K4EQK1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

K4EQK1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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AMENDED REPORT

1/9/2009 12:50:28 PM

ICOC Fraction Transfer/Status Report

ByDate: 1/10/2008, 1/14/2009, Batch: '8345299', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8345299						
AC		Rev1C	LaneL	12/22/2008 10:52:59		
SC			wagarr	IsBatched	12/10/2008 2:35:48 PM	ICOC_RADCALC v4.8.35
SC			LaneL	InPrep	12/22/2008 10:52:59 AM	RL-PRP-004 REVISION 0
SC			LaneL	Prep1C	12/22/2008 11:02:30 AM	RL-PRP-004 REVISION 0
SC			BockJ	InPrep2	1/2/2009 12:19:06 PM	RL-GAM-001 REVISION 0
SC			BockJ	Prep2C	1/6/2009 1:59:58 PM	RL-GAM-001 REVISION 0
SC			ClarkR	InCnt1	1/6/2009 2:05:19 PM	RL-CI-007 REVISION 0
SC			BlackCL	CalcC	1/9/2009 2:01:43 AM	RL-CI-007 REVISION 0
SC			whelands	Rev1C	1/9/2009 12:50:21 PM	RL-DR-001 REV 0
AC			LaneL	12/22/2008 11:02:30		
AC			BockJ	1/2/2009 12:19:06 PM		
AC			BockJ	1/6/2009 1:59:58 PM		
AC			ClarkR	1/6/2009 2:05:19 PM		
AC			BlackCL	1/9/2009 2:01:43 AM		
AC			whelands	1/9/2009 12:50:21 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.35

TESTAMERICA

12/24/2008 6:21:03 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #:

AnalyDueDate: 01/19/2009 WJ05567

Sep1 DT/Tm Tech:

Batch: 8345292 **WATER** **pCi/L**
SEQ Batch, Test: None All Tests: 8345292 BNTB,

PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

Prep Tech: ,LaneL

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 K3NPX-1-AA J8K250360-1-SAMP 11/23/2008 12:50		3880.60g,in AmtRec: 20ML,2X4LP	ITA7896 12/15/08 #Containers: 3		38.8	100	L2	1819	1/8/09	
								Scr:	Alpha: -2.29E-03 uCi/Sa	Beta: 1.80E-03 uCi/Sa
2 K3NPX-1-AC-X J8K250360-1-DUP 11/23/2008 12:50		3876.00g,in AmtRec: 20ML,2X4LP	ITA7897 12/15/08 #Containers: 3		35.9		L2	2007	1/8/09	
								Scr:	Alpha: -2.29E-03 uCi/Sa	Beta: 1.80E-03 uCi/Sa
3 K3NP2-1-AA J8K250362-1-SAMP 11/23/2008 08:32		3883.50g,in AmtRec: 20ML,2X4LP	ITA7898 12/15/08 #Containers: 3		37.2		L2	2152	1/8/09	
								Scr:	Alpha: -6.19E-04 uCi/Sa	Beta: 1.10E-03 uCi/Sa
4 K3NP3-1-AA J8K250362-2-SAMP 11/23/2008 07:35		3891.70g,in AmtRec: 20ML,2X4LP	ITA7899 12/15/08 #Containers: 3		33.0		L2	0007	1/8/09	
								Scr:	Alpha: 5.09E-04 uCi/Sa	Beta: -2.47E-04 uCi/Sa
5 K3NP5-1-AA J8K250362-3-SAMP 11/23/2008 11:51		3896.00g,in AmtRec: 20ML,2X4LP	ITA7900 12/15/08 #Containers: 3		32.8		L2	0212		
								Scr:	Alpha: -6.33E-04 uCi/Sa	Beta: 5.58E-04 uCi/Sa
6 K3NP6-1-AA J8K250362-4-SAMP 11/23/2008 09:58		3903.80g,in AmtRec: 20ML,2X4LP	ITA7901 12/15/08 #Containers: 3		33.6		L2	0354	1/9/09	
								Scr:	Alpha: 1.37E-03 uCi/Sa	Beta: -1.49E-03 uCi/Sa
7 K3NP8-1-AA J8K250362-5-SAMP 11/23/2008 11:01		3900.70g,in AmtRec: 20ML,2X4LP	ITA7902 12/15/08 #Containers: 3		32.2		L2	0536		
								Scr:	Alpha: 1.29E-03 uCi/Sa	Beta: -6.00E-04 uCi/Sa

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AMENDED REPORT

TESTAMERICA

12/24/2008 6:21:04 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 01/19/2009

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

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

Batch: 8345292 **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 K3NP9-1-AA J8K250362-6-SAMP 11/23/2008 09:58		3903.00g,in AmtRec: 20ML,2X4LP	ITA7903 12/15/08 #Containers: 3		34.8	100	L2	0719	1/9/09 B	
								Scr:	Alpha: 6.07E-05 uCi/Sa	Beta: -3.37E-04 uCi/Sa
9 K4EP4-1-AA-B J8L100000-292-BLK 11/23/2008 12:50		3985.40g,in AmtRec:	ITA7904 12/15/08 #Containers: 1		29.9		L2	0903	1/9/09 K	
								Scr:	Alpha:	Beta:
10 K4EP4-1-AC-C J8L100000-292-LCS 11/23/2008 12:50		3989.40g,in AmtRec:	ISD0894 10/08/08 #Containers: 1		35.4		L5	0905		
								Scr:	Alpha:	Beta:

Comments: REDUCED VOLS D/T ISV. RJK 122408

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

K3NPX1AA-SAMP Constituent List:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
K4EP41AA-BLK:
I-129 RDL:1.00E+00 pCi/L LCL: UCL: RPD:
K4EP41AC-LCS:
I-129 RDL:5 pCi/L LCL:70 UCL:130 RPD:20

K3NPX1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
K4EP41AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
K4EP41AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

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AMENDED REPORT

12/24/2008 6:21:05 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #:

AnalyDueDate: 01/19/2009

Sep1 DT/Tm Tech:

Batch: 8345292 pCi/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,LaneL

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

Approved By _____ Date: _____

TestAmerica Richland Wa.

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

Page 3

ISV - Insufficient Volume for Analysis

WO Cnt: 10

Prep_SamplePrep v4.8.34

1/9/2009 3:36:01 PM

ICOC Fraction Transfer/Status Report

ByDate: 1/10/2008, 1/14/2009, Batch: '8345292', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8345292						
AC		**Rev1C**	**LaneL**	12/24/2008 5:52:52		
SC			wagarr	IsBatched	12/10/2008 2:35:48 PM	ICOC_RADCALC v4.8.35
SC			LaneL	InPrep	12/24/2008 5:52:52 AM	RL-PRP-004 REVISION 0
SC			LaneL	Prep1C	12/24/2008 6:21:36 AM	RL-PRP-004 REVISION 0
SC			BostedD	Prep2C	1/8/2009 3:50:32 PM	RL-GAM-002 REVISION 0
SC			ClarkR	CalcC	1/9/2009 2:39:28 PM	RL-CI-007 REVISION 0
SC			whelands	Rev1C	1/9/2009 3:35:55 PM	RL-DR-001 REV 0
AC			**LaneL**	12/24/2008 6:21:36		
AC			**BostedD**	1/8/2009 3:50:32 PM		
AC			**ClarkR**	1/9/2009 2:39:28 PM		
AC			**whelands**	1/9/2009 3:35:55 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.35

TESTAMERICA

12/23/2008 2:58:11 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #:

AnalyDueDate: 01/05/2009 WP5567

Sep1 DT/Tm Tech:

Batch: 8345289 WATER pCi/L

PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,LaneL

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 K3L0V-1-AA J8K250169-1-SAMP 11/21/2008 10:03		125.00g,in AmtRec: 20ML,3XLP #Containers: 4		60			Scr: Alpha: -2.96E-04 uCi/Sa	Beta: 4.41E-04 uCi/Sa
2 K3L04-1-AA J8K250169-2-SAMP 11/21/2008 09:11		125.00g,in AmtRec: 20ML,3XLP #Containers: 4					Scr: Alpha: -2.64E-04 uCi/Sa	Beta: 3.73E-04 uCi/Sa
3 K3L09-1-AA J8K250169-3-SAMP 11/21/2008 07:30		124.90g,in AmtRec: 20ML,3XLP #Containers: 4					Scr: Alpha: 1.58E-04 uCi/Sa	Beta: -5.95E-05 uCi/Sa
4 K3N0L-1-AA J8K260105-1-SAMP 11/25/2008 09:30		125.10g,in AmtRec: 20ML,3XLP #Containers: 4					Scr: Alpha: -8.22E-04 uCi/Sa	Beta: 8.10E-04 uCi/Sa
5 K3N0L-1-AC-X J8K260105-1-DUP 11/25/2008 09:30		125.10g,in AmtRec: 20ML,3XLP #Containers: 4					Scr: Alpha: -8.22E-04 uCi/Sa	Beta: 8.10E-04 uCi/Sa
6 K3N0N-1-AA J8K260105-2-SAMP 11/25/2008 07:50		125.10g,in AmtRec: 20ML,3XLP #Containers: 4					Scr: Alpha: 5.56E-04 uCi/Sa	Beta: -1.60E-04 uCi/Sa
7 K3N0N-1-AC-S J8K260105-2-MS 11/25/2008 07:50		125.00g,in AmtRec: 20ML,3XLP #Containers: 4	TCSG2276 10/10/08,pd 07/01/05				Scr: Alpha: 5.56E-04 uCi/Sa	Beta: -1.60E-04 uCi/Sa

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AMENDED REPORT

TESTAMERICA

12/23/2008 2:58:12 PM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #:

AnalyDueDate: 01/05/2009

Sep1 DT/Tm Tech:

Batch: 8345289 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,LaneL

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 K4EP1-1-AA-B J8L100000-289-BLK 11/25/2008 09:30		125.10g,in AmtRec:	#Containers: 1	60		Scr:	Alpha:	Beta:
9 K4EP1-1-AC-C J8L100000-289-LCS 11/25/2008 09:30		125.00g,in AmtRec:	TCSE2273 09/30/08,pd 07/01/05,r #Containers: 1			Scr:	Alpha:	Beta:
10 K4EP1-1-AD-BN J8L100000-289-IBLK 11/25/2008 09:30		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments: PH<2.0. [illegible] 122308

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

K3L0V1AA-SAMP Constituent List:

Tc-99	RDL:1.50E+01	pCi/L	LCL:70	UCL:130	RPD:20

K3N0N1AC-MS:

K4EP11AA-BLK:

Tc-99	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:

K4EP11AC-LCS:

Tc-99	RDL:15	pCi/L	LCL:70	UCL:130	RPD:20

K4EP11AD-IBLK:

Tc-99	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:

K3L0V1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

K3N0N1AC-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

12/23/2008 2:58:12 PM

Sample Preparation/Analysis

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

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

AnalyDueDate: 01/05/2009

Batch: 8345289 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:

K4EP11AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
K4EP11AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
K4EP11AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ _____ Date: _____

1/13/2009 12:50:37 PM

ICOC Fraction Transfer/Status Report

ByDate: 1/14/2008, 1/18/2009, Batch: '8345289', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8345289						
AC		Rev1C	LaneL	12/23/2008 2:47:58		
SC			wagarr	IsBatched	12/10/2008 2:35:48 PM	ICOC_RADCALC v4.8.35
SC			LaneL	InPrep	12/23/2008 2:47:58 PM	RL-PRP-004 REVISION 0
SC			LaneL	Prep1C	12/23/2008 2:58:54 PM	RL-PRP-004 REVISION 0
SC			Barcotl	InSep1	1/8/2009 9:36:46 PM	RL-LSC-013 REVISION 0
SC			Barcotl	Sep1C	1/8/2009 9:36:57 PM	RL-LSC-013 REVISION 0
SC			DAWKINSO	InCnt1	1/8/2009 11:22:12 PM	RL-CI-005 REVISION 0
SC			DAWKINSO	CalcC	1/12/2009 7:43:14 PM	RL-CI-005 REVISION 0
SC			antonsonl	Rev1C	1/13/2009 12:50:28 PM	RL-DR-001 REV 0
AC			LaneL	12/23/2008 2:58:54		
AC			Barcotl	1/8/2009 9:36:46 PM		
AC			Barcotl	1/8/2009 9:36:57 PM		
AC			DAWKINSO	1/8/2009 11:22:12 PM		
AC			DAWKINSO	1/12/2009 7:43:14 PM		
AC			antonsonl	1/13/2009 12:50:28		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Page 1

Grp Rec Cnt: 7

ICOCFractions v4.8.35

TESTAMERICA

12/10/2008 2:26:48 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 01/19/2009 WO5507

Batch: 8345301 WATER pCi/L PM, Quote: SS , 57671
SEQ Batch, Test: None

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 1-3-09 2:00
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 K3NLR-1-AC J8K250357-2-SAMP 11/24/2008 11:49		AmtRec: 20ML,500MLP,2XLP	#Containers: 4			Scr:	Alpha: 1.86E-04 uCi/Sa	Beta: -1.05E-04 uCi/Sa
2 K3NLR-1-AH-X J8K250357-2-DUP 11/24/2008 11:49		AmtRec: 20ML,500MLP,2XLP	#Containers: 4			Scr:	Alpha: 1.86E-04 uCi/Sa	Beta: -1.05E-04 uCi/Sa
3 K4EQN-1-AA-B J8L100000-301-BLK 11/24/2008 11:49		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
4 K4EQN-1-AC-C J8L100000-301-LCS 11/24/2008 11:49		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
5 K4EQN-1-AD-BX J8L100000-301-MBLK 11/24/2008 11:49		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 K4EQN-1-AE-CM J8L100000-301-MLCS 11/24/2008 11:49		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
7 K4EQN-1-AF-BN J8L100000-301-IBLK 11/24/2008 11:49		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

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AMENDED REPORT

TESTAMERICA

12/10/2008 2:26:49 PM

Sample Preparation/Analysis

AR H-3 Prp/ScpRC5007
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

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

AnalyDueDate: 01/19/2009

Batch: 8345301 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 K4EQN-1-AG-BN								
J8L100000-301-IBLK								
11/24/2008 11:49		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

K3NLR1AC-SAMP Constituent List:
  H-3          RDL:400          pCi/L      LCL:70      UCL:130      RPD:20
K4EQN1AA-BLK:

K4EQN1AC-LCS:

K4EQN1AD-MBLK:

K4EQN1AE-MLCS:

K4EQN1AF-IBLK:

K4EQN1AG-IBLK:

K3NLR1AC-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
K4EQN1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
K4EQN1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
K4EQN1AD-MBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
K4EQN1AE-MLCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
K4EQN1AF-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

TESTAMERICA

12/10/2008 2:26:49 PM

Sample Preparation/Analysis

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

Balance Id:

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

AnalyDueDate: 01/19/2009

Batch: 8345301 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:

K4EQN1AG-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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AMENDED REPORT

1/5/2009 2:39:31 PM

ICOC Fraction Transfer/Status Report

ByDate: 1/6/2008, 1/10/2009, Batch: '8345301', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8345301						
AC		**Rev1C**	**McDowellD**	1/2/2009 9:10:02 AM		
SC			wagarr	IsBatched	12/10/2008 2:35:48 PM	ICOC_RADCALC v4.8.35
SC			McDowellD	InSep1	1/2/2009 9:10:02 AM	RL-LSC-005 REVISION 0
SC			McDowellD	Sep1C	1/2/2009 2:18:09 PM	RL-LSC-005 REVISION 0
SC			DAWKINSO	InCnt1	1/2/2009 2:33:50 PM	RL-CI-005 REVISION 0
SC			BlackCL	CalcC	1/4/2009 7:10:13 AM	RL-CI-005 REVISION 0
SC			nortonj	Rev1C	1/5/2009 2:39:23 PM	RL-DR-C01 REV 0
AC			**McDowellD**	1/2/2009 2:18:09 PM		
AC			**DAWKINSO**	1/2/2009 2:33:50 PM		
AC			**BlackCL**	1/4/2009 7:10:13 AM		
AC			**nortonj**	1/5/2009 2:39:23 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.35

TESTAMERICA

1/7/2009 6:26:21 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: 01/19/2009 W05567

Sep1 DT/Tm Tech:

Batch: 8345287 WATER ug/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 8331280 88EA, 8345287 DHSS,

Prep Tech: ,LaneL 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 K3NQN-1-AC J8K250365-1-SAMP 11/24/2008 10:07		25.10g,in AmtRec: 20ML,500G,500MLP	#Containers: 3			Scr:	Alpha: 1.08E-04 uCi/Sa	Beta: -4.20E-05 uCi/Sa
2 K3NQN-1-AD-S J8K250365-1-MS 11/24/2008 10:07		25.10g,in AmtRec: 20ML,500G,500MLP	UNSF4513 12/22/08,pd 08/01/57,r #Containers: 3			Scr:	Alpha: 1.08E-04 uCi/Sa	Beta: -4.20E-05 uCi/Sa
3 K3NQN-1-AE-X J8K250365-1-DUP 11/24/2008 10:07		25.10g,in AmtRec: 20ML,500G,500MLP	#Containers: 3			Scr:	Alpha: 1.08E-04 uCi/Sa	Beta: -4.20E-05 uCi/Sa
4 K4EP0-1-AA-B J8L100000-287-BLK 11/24/2008 10:07		25.10g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
5 K4EP0-1-AC-C J8L100000-287-LCS 11/24/2008 10:07		25.10g,in AmtRec:	UNSF4514 12/22/08,pd 08/01/57,r #Containers: 1			Scr:	Alpha:	Beta:
6 K4EP0-1-AD-C J8L100000-287-LCS 11/24/2008 10:07		25.00g,in AmtRec:	UNSC2788 12/09/08,pd 08/01/57,r #Containers: 1			Scr:	Alpha:	Beta:

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AMENDED REPORT

TESTAMERICA

1/7/2009 6:26:23 AM

Sample Preparation/Analysis

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

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 01/19/2009

Sep1 DT/Tm Tech:

Batch: 8345287 ug/L

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,LaneL

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

Comments: pH < 2.0, SJR 1 7 09

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

K3NQN1AC-SAMP Constituent List:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
K3NQN1AD-MS Constituent List:

K4EP01AA-BLK:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
K4EP01AC-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20
K4EP01AD-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20

K3NQN1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
K3NQN1AD-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
K4EP01AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
K4EP01AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
K4EP01AD-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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AMENDED REPORT

1/19/2009 9:29:10 AM

ICOC Fraction Transfer/Status Report

ByDate: 1/20/2008, 1/24/2009, Batch: '8345287', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
8345287						
AC		Rev1C	LaneL	1/7/2009 6:20:43 AM		
SC			wagarr	IsBatched	12/10/2008 2:35:48 PM	ICOC_RADCALC v4.8.35
SC			LaneL	InPrep	1/7/2009 6:20:43 AM	RL-PRP-004 REVISION 0
SC			LaneL	Prep1C	1/7/2009 6:26:58 AM	RL-PRP-004 REVISION 0
SC			BockJ	InPrep2	1/13/2009 11:06:35 AM	RL-KPA-001 REVISION 0
SC			BockJ	Prep2C	1/14/2009 12:24:29 PM	RL-KPA-001 REVISION 0
SC			NelsonT	Cnt1C	1/16/2009 1:14:41 PM	RL-KPA-003 REVISION 0
SC			antonsonl	Rev1C	1/19/2009 9:29:03 AM	RL-DR-001 REV 0
AC			LaneL	1/7/2009 6:26:58 AM		
AC			BockJ	1/13/2009 11:06:35		
AC			BockJ	1/14/2009 12:24:29		
AC			NelsonT	1/16/2009 1:14:41 PM		
AC			antonsonl	1/19/2009 9:29:03		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.35

TESTAMERICA

11/26/2008 11:01:18 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 01/08/2009

Batch: 8331280 WATER mg/L
SEQ Batch, Test: None All Tests: 8331280 88EA,

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 K3NLE-1-AA								
J8K250355-1-SAMP								
11/24/2008 10:06		AmtRec: 20ML,500G	#Containers: 2			Scr:	Alpha:	Beta:
2 K3NLE-1-AC-S								
J8K250355-1-MS								
11/24/2008 10:06		AmtRec: 20ML,500G	#Containers: 2			Scr:	Alpha:	Beta:
3 K3NLE-1-AD-D								
J8K250355-1-MSD								
11/24/2008 10:06		AmtRec: 20ML,500G	#Containers: 2			Scr:	Alpha:	Beta:
4 K3NLE-1-AE-X								
J8K250355-1-DUP								
11/24/2008 10:06		AmtRec: 20ML,500G	#Containers: 2			Scr:	Alpha:	Beta:
5 K3NLR-1-AA								
J8K250357-2-SAMP								
11/24/2008 11:49		AmtRec: 20ML,500MLP,2XLP	#Containers: 4			Scr:	Alpha:	Beta:
6 K3NQN-1-AA								
J8K250365-1-SAMP								
11/24/2008 10:07		AmtRec: 20ML,500G,500MLP	#Containers: 3			Scr:	Alpha:	Beta:
7 K3PHQ-1-AA-B								
J8K260000-280-BLK								
11/24/2008 10:06		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

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AMENDED REPORT

TESTAMERICA

11/26/2008 11:01:18 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 01/08/2009

Batch: 8331280 mg/L
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 K3PHQ-1-AC-C								
J8K260000-280-LCS								
11/24/2008 10:06		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

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

K3NLE1AA-SAMP Constituent List:
HEXCHROME RDL:0.002 mg/L LCL:85 UCL:115 RPD:20
K3NLE1AC-MS Constituent List:

K3NLE1AD-MSD:

K3PHQ1AA-BLK:

K3PHQ1AC-LCS:

K3NLE1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
K3NLE1AC-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
K3NLE1AD-MSD:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
K3PHQ1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
K3PHQ1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By Date:

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AMENDED REPORT

TESTAMERICA

12/3/2008 4:57:14 PM

Sample Preparation/Analysis

Balance Id:

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #:

AnalyDueDate: 01/16/2009

5I CLIENT: HANFORD

Sep1 DT/Tm Tech:

Batch: 8338511 WATER mg/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 K3086-1-AA								
J8L030233-1-SAMP								
12/03/2008 09:57		AmtRec: 20ML,500G	#Containers: 2			Scr:	Alpha:	Beta:
2 K3086-1-AC-S								
J8L030233-1-MS								
12/03/2008 09:57		AmtRec: 20ML,500G	#Containers: 2			Scr:	Alpha:	Beta:
3 K3086-1-AD-D								
J8L030233-1-MSD								
12/03/2008 09:57		AmtRec: 20ML,500G	#Containers: 2			Scr:	Alpha:	Beta:
4 K3086-1-AE-X								
J8L030233-1-DUP								
12/03/2008 09:57		AmtRec: 20ML,500G	#Containers: 2			Scr:	Alpha:	Beta:
5 K31WM-1-AA-B								
J8L030000-511-BLK								
12/03/2008 09:57		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 K31WM-1-AC-C								
J8L030000-511-LCS								
12/03/2008 09:57		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

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AMENDED REPORT

TESTAMERICA

12/3/2008 4:57:14 PM

Sample Preparation/Analysis

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

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

AnalyDueDate: 01/16/2009

Batch: 8338511 mg/L
SEQ Batch, Test: None

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

Comments:

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

K30861AA-SAMP Constituent List:

K30861AC-MS Constituent List:

K30861AD-MSD:

K31WM1AA-BLK:

K31WM1AC-LCS:

K30861AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
K30861AC-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
K30861AD-MSD:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
K31WM1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
K31WM1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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AMENDED REPORT