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: 41821

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05646	I09-033	B202N4	J9D270148-1	LAVA01AA	9LAVA010	9131509
		B202N8	J9D270148-2	LAVA41AA	9LAVA410	9131510
	A09-004	B20050	J9D270152-1	LAVCF1AA	9LAVCF10	9131509
		B20066	J9D270152-2	LAVCM1AA	9LAVCM10	9131509
	W09-004	B205J4	J9D270162-1	LAVFJ1AA	9LAVFJ10	9131511
		B205J4	J9D270162-1	LAVFJ1AC	9LAVFJ10	9131509
		B205J8	J9D270162-2	LAVFL1AA	9LAVFL10	9131511
		B205J8	J9D270162-2	LAVFL1AC	9LAVFL10	9131509
		B205J8	J9D270162-2	LAVFL1AD	9LAVFL10	9131520
		B205K5	J9D270162-3	LAVFP1AA	9LAVFP10	9131509
		B205L2	J9D270162-4	LAVF81AA	9LAVF810	9131509
		B205F2	J9D270162-5	LAVGD1AA	9LAVGD10	9131511
		B205D5	J9D270162-6	LAVGE1AA	9LAVGE10	9131511
	I09-033	B209K1	J9D300187-1	LA4GX1AA	9LA4GX10	9131517
		B209K1	J9D300187-1	LA4GX1AC	9LA4GX10	9131512

Comments:

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RECEIVED JUNE 30, 2009

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SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05646	I09-033	B209K1	J9D300187-1	LA4GX1AD	9LA4GX10	9131509
		B209K1	J9D300187-1	LA4GX1AE	9LA4GX10	9131513
		B209K1	J9D300187-1	LA4GX1AF	9LA4GX10	9131515
		B209K1	J9D300187-1	LA4GX1AH	9LA4GX10	9131518
		B209K1	J9D300187-1	LA4GX2AG	9LA4GX20	9131514
		B209K5	J9D300188-1	LA4H81AA	9LA4H810	9120541
	W09-004	B205M8	J9D300192-1	LA4J21AA	9LA4J210	9131509
		B205L6	J9D300192-2	LA4KL1AA	9LA4KL10	9131509
		B205F4	J9D300192-3	LA4KP1AA	9LA4KP10	9131511
	S09-004	B20371	J9D300195-1	LA4K41AA	9LA4K410	9131521
	I09-032	B202K1	J9D300244-1	LA43C1AA	9LA43C10	9120540
		B202K1	J9D300244-1	LA43C1AC	9LA43C10	9131516
	I09-033	B202X7	J9E010173-1	LA6QX1AA	9LA6QX10	9131509
		B202X6	J9E010173-2	LA6Q41AA	9LA6Q410	9131509

Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

CH2M Hill Plateau Remediation Company
P.O. Box 1600
Mail Stop – R3-60
Richland, WA 99352

June 29, 2009

Attention: Mike Neely

SAF Number	:	I09-033, A09-004, W09-004, S09-004, I09-032
Date SDG Closed	:	May 5, 2009
Number of Samples	:	Nineteen (19)
Sample Type	:	Water
SDG Number	:	W05646
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between April 23, 2009 and April 30, 2009 nineteen 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 CH2M specific IDs:

CH2M ID#	TARL ID#	DATE OF RECEIPT	MATRIX
B202N4	LAVA0	04/23/09	WATER
B202N8	LAVA4	04/23/09	WATER
B20050	LAVCF	04/23/09	WATER
B20066	LAVCM	04/23/09	WATER
B205J4	LAVFJ	04/23/09	WATER
B205J8	LAVFL	04/23/09	WATER
B205K5	LAVFP	04/23/09	WATER
B205L2	LAVF8	04/23/09	WATER
B205F2	LAVGD	04/23/09	WATER
B205D5	LAVGE	04/23/09	WATER
B200K1	LA4GX	04/28/09	WATER
B209K5	LA4H8	04/28/09	WATER
B205M8	LA4J2	04/28/09	WATER
B205L6	LA4KL	04/28/09	WATER

B205F4	LA4KP	04/28/09	WATER
B20371	LA4K4	04/28/09	WATER
B202K1	LA43C	04/28/09	WATER
B202X7	LA6QX	04/28/09	WATER
B202X6	LA6Q4	04/30/09	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:

Alpha Spectroscopy
Plutonium-238, -239/240 by method RL-ALP-002 (RICH-RC-5010)*
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)*
Gamma Spec (10) by method RL-GAM-001 (RICH-RC-5017)*
Iodine-129 (LL) by method RL-GAM-002 (RICH-RC-5025)*
Iodine-129 by method RL-GAM-002 (RICH-RC-5025)*
Liquid Scintillation Counting
Technetium-99 by TEVA method RL-LSC-014 (RICH-RC-5065)*
Carbon-14 by method RL-LSC-008 (RICH-RC-5022)*
Nickel-63 by method RL-LCS-017 (RICH-RC-5069)*
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

Alpha Spectroscopy

Plutonium-238, -239/240 by method RL-ALP-002 (RICH-RC-5010):
The LCS, batch blank, sample and sample duplicate (B209K1) results are within contractual requirements.

Gas Proportional Counting

Gross Alpha by method RL-GPC-001 (RICH-RC-5014):
Sample B209K1 and B209K1 DUP were analyzed with reduced aliquots based on weight screen results. Except as noted, the LCS, batch blank, samples and sample duplicate (B209K1) results are within contractual requirements.

Gross Beta by method RL-GPC-001 (RICH-RC-5014):
The LCS, batch blank, samples and sample duplicate (B209K1) results are within contractual requirements.

Strontium-90 by method RL-GPC-003 (RICH-RC-5006):
The LCS, batch blank, samples and sample duplicate (B202K1) 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 B205J4 was recounted on a different detector for the duplicate (B205J4 DUP). Except as noted, the LCS, batch blank, samples and sample duplicate (B205J4) results are within contractual requirements.

Gamma Spec (10) by method RL-GAM-001 (RICH-RC-5017):
There was insufficient volume for a duplicate. Sample B209K1 was recounted on a different detector for the duplicate (B209K1 DUP). Except as noted, the LCS, batch blank, samples and sample duplicate (B209K1) results are within contractual requirements.

Iodine-129 (LL) by method RL-GAM-002 (RICH-RC-5025):
The samples and QC were counted using the improved method. The LCS, batch blank, samples and sample duplicate (B202X7) results are within contractual requirements.

Iodine-129 by method RL-GAM-002 (RICH-RC-5025):
The LCS, batch blank, samples and sample duplicate (B202N8) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by TEVA method RL-LSC-014 (RICH-RC-5065):
The LCS, batch blank, samples, sample duplicate (B209K1), and sample matrix spike (B209K1) results are within contractual requirements.

Carbon-14 by method RL-LSC-008 (RICH-RC-5022):
The LCS, batch blank, samples and sample duplicate (B20371) results are within contractual requirements.

Nickel-63 by method RL-LCS-017 (RICH-RC-5069):
Except as noted, the LCS, batch blank, sample and sample duplicate (B205J8) results are within contractual requirements.

Total Uranium
Total Uranium by method RL-KPA-003 (RICH-RC-5058):
When first counted the samples provided a low reference ratio. Then entire batch was re-counted and the results were acceptable. Except as noted, the LCS, batch blank, samples, sample duplicate (B209K1), and sample matrix spike (B209K1) results are within contractual requirements.

Chemical Analysis
Hexavalent Chromium by EPA method 7196A

BATCH 9120541
The LCS, batch blank, samples, sample duplicate (B209K5), sample matrix spike (B209K5), and matrix spike duplicate (B209K5) results are within contractual requirements.

BATCH 9120540
The LCS, batch blank, samples, sample duplicate (B202K1), sample matrix spike (B202K1), and matrix spike duplicate (B1FVX8) results are within contractual requirements.

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

Reviewed and approved:

Sandra Seger
Project Manager

Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	**Isotope(s)**	**TestAmerica Richland's SOP No.**
EPA 901.1	Cs-134, I-131	RL-GAM-001
EPA 900.0	Alpha & Beta	RL-GPC-001
EPA 00-02	Gross Alpha (Coprecipitation)	RL-GPC-002
EPA 903.0	Total Alpha Radium (Ra-226)	RL-RA-002
EPA 903.1	Ra-226	RL-RA-001
EPA 904.0	Ra-228	RL-RA-001
EPA 905.0	Sr-89/90	RL-GPC-003
ASTM D5174	Uranium	RL-KPA-003
EPA 906.0	Tritium	RL-LSC-005

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 6190,6601 / 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, Lundell, 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 Actn 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

6/30/2009 9:59:04 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 41821 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.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:
9LA43C10	B202K1		MW6-SBB-A1	I09-032	W05646					04/28/2009 09:23

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9131516	SR-90	10098-97-2	1.45E-01	pCi/L	4.1E-01	4.1E-01	U	8.69E-01	48.4	SRISO_SEP_PREC	9.901E-01	L	06/18/2009 05:00	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9LA4GX10	B209K1		MW6-SBB-A1	I09-033	W05646					04/28/2009 09:41

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9131517	ALPHA	12587-46-1	1.24E+00	pCi/L	1.4E+00	1.4E+00	U	2.57E+00	100.0	9310_ALPHABETA	1.923E-01	L	05/19/2009 04:18	I
9131518	BETA	12587-47-2	9.35E+00	pCi/L	1.9E+00	2.2E+00		2.70E+00	100.0	9310_ALPHABETA	2.001E-01	L	05/20/2009 07:41	I
9131512	BE-7	13966-02-4	-3.34E+00	pCi/L	1.3E+01	1.3E+01	U	2.21E+01		GAMMA_GS	2.50E+00	L	06/01/2009 13:00	I
9131512	CO-60	10198-40-0	3.00E-01	pCi/L	1.4E+00	1.4E+00	U	2.78E+00		GAMMA_GS	2.50E+00	L	06/01/2009 13:00	I
9131512	CS-134	13967-70-9	4.97E-01	pCi/L	1.4E+00	1.4E+00	U	2.58E+00		GAMMA_GS	2.50E+00	L	06/01/2009 13:00	I
9131512	CS-137	10045-97-3	1.51E-03	pCi/L	1.2E+00	1.2E+00	U	2.15E+00		GAMMA_GS	2.50E+00	L	06/01/2009 13:00	I
9131512	EU-152	14683-23-9	-1.70E+00	pCi/L	2.8E+00	2.8E+00	U	4.65E+00		GAMMA_GS	2.50E+00	L	06/01/2009 13:00	I
9131512	EU-154	15585-10-1	3.07E+00	pCi/L	4.0E+00	4.0E+00	U	8.16E+00		GAMMA_GS	2.50E+00	L	06/01/2009 13:00	I
9131512	EU-155	14391-16-3	2.00E-01	pCi/L	2.4E+00	2.4E+00	U	4.27E+00		GAMMA_GS	2.50E+00	L	06/01/2009 13:00	I
9131512	K-40	13966-00-2	-1.88E+01	pCi/L	2.6E+01	2.6E+01	U	5.43E+01		GAMMA_GS	2.50E+00	L	06/01/2009 13:00	I
9131512	RU-106	13967-48-1	5.69E+00	pCi/L	1.1E+01	1.1E+01	U	2.13E+01		GAMMA_GS	2.50E+00	L	06/01/2009 13:00	I
9131512	SB-125	14234-35-6	-8.50E-01	pCi/L	2.9E+00	2.9E+00	U	4.97E+00		GAMMA_GS	2.50E+00	L	06/01/2009 13:00	I
9131509	I-129	15046-84-1	1.35E-01	pCi/L	9.6E-02	9.6E-02	U	1.54E-01	95.7	I129LL_SEP_LEPS	3.8901E+00	L	06/16/2009 08:19	I
9131513	PU-238	13981-16-3	4.56E-02	pCi/L	9.3E-02	9.3E-02	U	2.18E-01	93.7	PUISO_PLATE_AE	1.999E-01	L	06/17/2009 17:04	I
9131513	PU-239	PU-239/240	-9.11E-03	pCi/L	9.3E-02	9.3E-02	U	2.18E-01	93.7	PUISO_PLATE_AE	1.999E-01	L	06/17/2009 17:04	I
9131515	TC-99	14133-76-7	-7.97E+00	pCi/L	4.3E+00	6.4E+00	U	1.05E+01	100.0	TC99_ETVDSK_LS	1.25E-01	L	06/11/2009 00:55	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:
9LA4GX20	B209K1		MW6-SBB-A1	I09-033	W05646					04/28/2009 09:41

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9131514	Uranium	7440-61-1	2.17E+00	ug/L	2.2E-01	2.2E-01		8.42E-02		UTOT_KPA	2.49E-02	ML	06/05/2009 09:32	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:
9LA4J210	B205M8		MW6-SBB-A1	W09-004	W05646					04/27/2009 12:03

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

6/30/2009 9:59:04 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 41821 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9131509	I-129	15046-84-1	9.66E-02	pCi/L	1.2E-01	1.2E-01	U	2.16E-01	98.1	I129LL_SEP_LEPS	3.8345E+00	L	06/16/2009 11:44	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9LA4K410	B20371		MW6-SBB-A1	S09-004	W05646					04/28/2009 09:23

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9131521	C-14	14762-75-5	4.57E+03	pCi/L	3.4E+01	1.7E+02		8.39E+00	100.0	C14_LSC	2.00E-01	L	06/24/2009 23:30	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:
9LA4KL10	B205L6		MW6-SBB-A1	W09-004	W05646					04/27/2009 13:56

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9131509	I-129	15046-84-1	3.06E-01	pCi/L	1.4E-01	1.4E-01		1.36E-01	95.7	I129LL_SEP_LEPS	3.9092E+00	L	06/16/2009 11:46	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9LA4KP10	B205F4		MW6-SBB-A1	W09-004	W05646					04/27/2009 10:48

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9131511	BE-7	13966-02-4	7.07E+00	pCi/L	1.8E+01	1.8E+01	U	3.28E+01		GAMMALL_GS	2.00E+00	L	06/01/2009 18:31	I
9131511	CO-60	10198-40-0	1.07E+00	pCi/L	1.8E+00	1.8E+00	U	3.55E+00		GAMMALL_GS	2.00E+00	L	06/01/2009 18:31	I
9131511	CS-134	13967-70-9	-9.22E-02	pCi/L	1.9E+00	1.9E+00	U	3.35E+00		GAMMALL_GS	2.00E+00	L	06/01/2009 18:31	I
9131511	CS-137	10045-97-3	-4.18E-01	pCi/L	1.4E+00	1.4E+00	U	2.52E+00		GAMMALL_GS	2.00E+00	L	06/01/2009 18:31	I
9131511	EU-152	14683-23-9	3.58E-01	pCi/L	4.4E+00	4.4E+00	U	7.79E+00		GAMMALL_GS	2.00E+00	L	06/01/2009 18:31	I
9131511	EU-154	15585-10-1	-9.21E-01	pCi/L	4.1E+00	4.1E+00	U	7.45E+00		GAMMALL_GS	2.00E+00	L	06/01/2009 18:31	I
9131511	EU-155	14391-16-3	-6.22E-01	pCi/L	3.1E+00	3.1E+00	U	5.31E+00		GAMMALL_GS	2.00E+00	L	06/01/2009 18:31	I
9131511	K-40	13966-00-2	-2.61E+01	pCi/L	3.7E+01	3.7E+01	U	7.61E+01		GAMMALL_GS	2.00E+00	L	06/01/2009 18:31	I
9131511	RU-106	13967-48-1	6.45E-01	pCi/L	1.5E+01	1.5E+01	U	2.69E+01		GAMMALL_GS	2.00E+00	L	06/01/2009 18:31	I
9131511	SB-125	14234-35-6	-1.69E+00	pCi/L	4.3E+00	4.3E+00	U	7.32E+00		GAMMALL_GS	2.00E+00	L	06/01/2009 18:31	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:
9LA6Q410	B202X6		MW6-SBB-A1	I09-033	W05646					04/29/2009 10:50

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9131509	I-129	15046-84-1	5.64E-01	pCi/L	2.3E-01	2.3E-01		2.10E-01	95.7	I129LL_SEP_LEPS	3.9045E+00	L	06/16/2009 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:
9LA6QX10	B202X7		MW6-SBB-A1	I09-033	W05646					04/29/2009 07:30

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

6/30/2009 9:59:04 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 41821 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9131509	I-129	15046-84-1	-2.21E-02	pCi/L	1.2E-01	1.2E-01	U	2.11E-01	83.0	I129LL_SEP_LEPS	3.8882E+00	L	06/16/2009 15:10	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:
9LAVA010	B202N4		MW6-SBB-A1	I09-033	W05646					04/22/2009 12:08

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9131509	I-129	15046-84-1	-7.47E-02	pCi/L	9.5E-02	9.5E-02	U	1.58E-01	115.9	I129LL_SEP_LEPS	3.9388E+00	L	06/15/2009 04:25	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:
9LAVA410	B202N8		MW6-SBB-A1	I09-033	W05646					04/22/2009 14:16

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9131510	I-129L	15046-84-1	-3.92E-02	pCi/L	8.8E-01	8.8E-01	U	1.67E+00	97.0	I129_SEP_LEPS_G	5.00E-01	L	06/10/2009 18:54	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9LAVCF10	B20050		MW6-SBB-A1	A09-004	W05646					04/22/2009 09:27

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9131509	I-129	15046-84-1	1.59E+00	pCi/L	2.7E-01	2.7E-01		1.85E-01	91.6	I129LL_SEP_LEPS	3.8167E+00	L	06/15/2009 04:25	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:
9LAVCM10	B20066		MW6-SBB-A1	A09-004	W05646					04/22/2009 11:49

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9131509	I-129	15046-84-1	1.33E-01	pCi/L	1.6E-01	1.6E-01	U	2.55E-01	92.4	I129LL_SEP_LEPS	3.8913E+00	L	06/15/2009 16:25	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:
9LAVF810	B205L2		MW6-SBB-A1	W09-004	W05646					04/22/2009 13:57

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9131509	I-129	15046-84-1	5.24E-01	pCi/L	2.0E-01	2.0E-01		1.98E-01	94.3	I129LL_SEP_LEPS	3.8881E+00	L	06/16/2009 08:19	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:
9LAVFJ10	B205J4		MW6-SBB-A1	W09-004	W05646					04/22/2009 14:31

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9131511	BE-7	13966-02-4	8.19E+00	pCi/L	1.6E+01	1.6E+01	U	2.94E+01		GAMMALL_GS	2.00E+00	L	06/01/2009 20:18	I
9131511	CO-60	10198-40-0	1.59E+00	pCi/L	1.6E+00	1.6E+00	U	3.45E+00		GAMMALL_GS	2.00E+00	L	06/01/2009 20:18	I
9131511	CS-134	13967-70-9	8.67E-01	pCi/L	1.5E+00	1.5E+00	U	2.93E+00		GAMMALL_GS	2.00E+00	L	06/01/2009 20:18	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.

9131511	CS-137	10045-97-3	1.10E-02	pCi/L	1.3E+00	1.3E+00	U	2.38E+00		GAMMALL_GS	2.00E+00	L	06/01/2009 20:18	I
9131511	EU-152	14683-23-9	4.42E-01	pCi/L	3.4E+00	3.4E+00	U	6.11E+00		GAMMALL_GS	2.00E+00	L	06/01/2009 20:18	I
9131511	EU-154	15585-10-1	-1.16E+00	pCi/L	3.5E+00	3.5E+00	U	6.34E+00		GAMMALL_GS	2.00E+00	L	06/01/2009 20:18	I
9131511	EU-155	14391-16-3	1.59E-01	pCi/L	2.7E+00	2.7E+00	U	4.65E+00		GAMMALL_GS	2.00E+00	L	06/01/2009 20:18	I
9131511	K-40	13966-00-2	9.94E+00	pCi/L	2.3E+01	2.3E+01	U	4.42E+01		GAMMALL_GS	2.00E+00	L	06/01/2009 20:18	I
9131511	RU-106	13967-48-1	-5.14E+00	pCi/L	1.1E+01	1.1E+01	U	1.92E+01		GAMMALL_GS	2.00E+00	L	06/01/2009 20:18	I
9131511	SB-125	14234-35-6	-1.20E+00	pCi/L	3.3E+00	3.3E+00	U	5.67E+00		GAMMALL_GS	2.00E+00	L	06/01/2009 20:18	I
9131509	I-129	15046-84-1	8.19E+00	pCi/L	9.6E-01	9.6E-01		1.73E-01	99.5	I129LL_SEP_LEPS	3.7928E+00	L	06/15/2009 16:27	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:
9LAVFL10	B205J8		MW6-SBB-A1	W09-004	W05646					04/22/2009 13:10

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9131511	BE-7	13966-02-4	6.32E+00	pCi/L	1.6E+01	1.6E+01	U	2.85E+01		GAMMALL_GS	2.00E+00	L	06/01/2009 18:29	I
9131511	CO-60	10198-40-0	8.53E-01	pCi/L	1.5E+00	1.5E+00	U	2.86E+00		GAMMALL_GS	2.00E+00	L	06/01/2009 18:29	I
9131511	CS-134	13967-70-9	2.34E-01	pCi/L	1.5E+00	1.5E+00	U	2.64E+00		GAMMALL_GS	2.00E+00	L	06/01/2009 18:29	I
9131511	CS-137	10045-97-3	7.83E-01	pCi/L	1.4E+00	1.4E+00	U	2.49E+00		GAMMALL_GS	2.00E+00	L	06/01/2009 18:29	I
9131511	EU-152	14683-23-9	-7.14E-01	pCi/L	3.5E+00	3.5E+00	U	6.02E+00		GAMMALL_GS	2.00E+00	L	06/01/2009 18:29	I
9131511	EU-154	15585-10-1	1.79E+00	pCi/L	3.4E+00	3.4E+00	U	6.75E+00		GAMMALL_GS	2.00E+00	L	06/01/2009 18:29	I
9131511	EU-155	14391-16-3	-2.78E+00	pCi/L	3.2E+00	3.2E+00	U	5.32E+00		GAMMALL_GS	2.00E+00	L	06/01/2009 18:29	I
9131511	K-40	13966-00-2	2.06E+01	pCi/L	2.1E+01	2.1E+01	U	4.41E+01		GAMMALL_GS	2.00E+00	L	06/01/2009 18:29	I
9131511	RU-106	13967-48-1	-2.01E+00	pCi/L	1.2E+01	1.2E+01	U	2.12E+01		GAMMALL_GS	2.00E+00	L	06/01/2009 18:29	I
9131511	SB-125	14234-35-6	-1.41E+00	pCi/L	3.4E+00	3.4E+00	U	5.68E+00		GAMMALL_GS	2.00E+00	L	06/01/2009 18:29	I
9131509	I-129	15046-84-1	3.10E+01	pCi/L	3.3E+00	3.3E+00		3.30E-01	93.5	I129LL_SEP_LEPS	3.8887E+00	L	06/16/2009 04:54	I
9131520	NI-63	13981-37-8	4.22E+02	pCi/L	6.0E+00	2.6E+01		3.68E+00	94.6	NI63_LSC	4.00E-01	L	06/10/2009 18:02	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:
9LAVFP10	B205K5		MW6-SBB-A1	W09-004	W05646					04/22/2009 09:15

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9131509	I-129	15046-84-1	2.79E+00	pCi/L	5.4E-01	5.4E-01		3.69E-01	93.0	I129LL_SEP_LEPS	3.8136E+00	L	06/16/2009 04:54	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9LAVGD10	B205F2		MW6-SBB-A1	W09-004	W05646					04/22/2009 13:13

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
9131511	BE-7	13966-02-4	7.31E+00	pCi/L	2.0E+01	2.0E+01	U	3.66E+01		GAMMALL_GS	2.00E+00	L	06/01/2009 18:30	I

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

6/30/2009 9:59:04 AM

TestAmerica Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **Version:** 05 **Rpt Nbr:** 41821 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

9131511	CO-60	10198-40-0	2.02E+00	pCi/L	1.8E+00	1.8E+00	U	3.83E+00		GAMMALL_GS	2.00E+00	L	06/01/2009	18:30	I
9131511	CS-134	13967-70-9	-6.06E-01	pCi/L	1.8E+00	1.8E+00	U	3.17E+00		GAMMALL_GS	2.00E+00	L	06/01/2009	18:30	I
9131511	CS-137	10045-97-3	-9.83E-01	pCi/L	1.6E+00	1.6E+00	U	2.70E+00		GAMMALL_GS	2.00E+00	L	06/01/2009	18:30	I
9131511	EU-152	14683-23-9	1.35E+00	pCi/L	4.2E+00	4.2E+00	U	7.59E+00		GAMMALL_GS	2.00E+00	L	06/01/2009	18:30	I
9131511	EU-154	15585-10-1	-7.44E-01	pCi/L	5.2E+00	5.2E+00	U	9.36E+00		GAMMALL_GS	2.00E+00	L	06/01/2009	18:30	I
9131511	EU-155	14391-16-3	-4.42E-01	pCi/L	3.4E+00	3.4E+00	U	5.72E+00		GAMMALL_GS	2.00E+00	L	06/01/2009	18:30	I
9131511	K-40	13966-00-2	-1.81E+01	pCi/L	3.8E+01	3.8E+01	U	7.82E+01		GAMMALL_GS	2.00E+00	L	06/01/2009	18:30	I
9131511	RU-106	13967-48-1	-3.43E+00	pCi/L	1.6E+01	1.6E+01	U	2.73E+01		GAMMALL_GS	2.00E+00	L	06/01/2009	18:30	I
9131511	SB-125	14234-35-6	-3.27E+00	pCi/L	4.5E+00	4.5E+00	U	7.39E+00		GAMMALL_GS	2.00E+00	L	06/01/2009	18:30	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:
9LAVGE10	B205D5		MW6-SBB-A1	W09-004	W05646					04/22/2009 14:16

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Aiq Size	Unit	Analy Date/Time		Act
9131511	BE-7	13966-02-4	1.89E+01	pCi/L	1.9E+01	1.9E+01	U	3.49E+01		GAMMALL_GS	2.00E+00	L	06/01/2009	18:32	I
9131511	CO-60	10198-40-0	1.03E+00	pCi/L	1.7E+00	1.7E+00	U	3.20E+00		GAMMALL_GS	2.00E+00	L	06/01/2009	18:32	I
9131511	CS-134	13967-70-9	-4.96E-01	pCi/L	1.7E+00	1.7E+00	U	2.91E+00		GAMMALL_GS	2.00E+00	L	06/01/2009	18:32	I
9131511	CS-137	10045-97-3	-8.36E-01	pCi/L	1.5E+00	1.5E+00	U	2.53E+00		GAMMALL_GS	2.00E+00	L	06/01/2009	18:32	I
9131511	EU-152	14683-23-9	-1.39E+00	pCi/L	3.9E+00	3.9E+00	U	6.57E+00		GAMMALL_GS	2.00E+00	L	06/01/2009	18:32	I
9131511	EU-154	15585-10-1	-2.06E+00	pCi/L	5.1E+00	5.1E+00	U	8.71E+00		GAMMALL_GS	2.00E+00	L	06/01/2009	18:32	I
9131511	EU-155	14391-16-3	8.39E-01	pCi/L	4.2E+00	4.2E+00	U	7.24E+00		GAMMALL_GS	2.00E+00	L	06/01/2009	18:32	I
9131511	K-40	13966-00-2	-1.73E+01	pCi/L	4.7E+01	4.7E+01	U	9.86E+01		GAMMALL_GS	2.00E+00	L	06/01/2009	18:32	I
9131511	RU-106	13967-48-1	1.15E+01	pCi/L	1.5E+01	1.5E+01	U	2.72E+01		GAMMALL_GS	2.00E+00	L	06/01/2009	18:32	I
9131511	SB-125	14234-35-6	9.55E-01	pCi/L	3.9E+00	3.9E+00	U	6.94E+00		GAMMALL_GS	2.00E+00	L	06/01/2009	18:32	I

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

Tuesday, June 30, 2009

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LCRL21AB	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:** 04/28/2009 09:41
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 04/28/2009

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
9131512	BE-7	-1.22E+00	pCi/L	2.0E+01	U	3.48E+01			GAMMA_GS	2.5001E+00	06/01/2009				D
BLK	13966-02-4			2.0E+01						L	13:01				
9131512	CO-60	2.86E-01	pCi/L	1.8E+00	U	3.27E+00			GAMMA_GS	2.5001E+00	06/01/2009				D
BLK	10198-40-0			1.8E+00						L	13:01				
9131512	CS-134	1.42E+00	pCi/L	1.8E+00	U	3.44E+00			GAMMA_GS	2.5001E+00	06/01/2009				D
BLK	13967-70-9			1.8E+00						L	13:01				
9131512	CS-137	1.36E+00	pCi/L	1.7E+00	U	3.16E+00			GAMMA_GS	2.5001E+00	06/01/2009				D
BLK	10045-97-3			1.7E+00						L	13:01				
9131512	EU-152	5.82E-01	pCi/L	4.4E+00	U	7.65E+00			GAMMA_GS	2.5001E+00	06/01/2009				D
BLK	14683-23-9			4.4E+00						L	13:01				
9131512	EU-154	2.75E-01	pCi/L	5.0E+00	U	9.11E+00			GAMMA_GS	2.5001E+00	06/01/2009				D
BLK	15585-10-1			5.0E+00						L	13:01				
9131512	EU-155	1.13E+00	pCi/L	3.2E+00	U	5.58E+00			GAMMA_GS	2.5001E+00	06/01/2009				D
BLK	14391-16-3			3.2E+00						L	13:01				
9131512	K-40	-3.46E+01	pCi/L	3.8E+01	U	7.54E+01			GAMMA_GS	2.5001E+00	06/01/2009				D
BLK	13966-00-2			3.8E+01						L	13:01				
9131512	RU-106	3.39E+00	pCi/L	1.7E+01	U	2.97E+01			GAMMA_GS	2.5001E+00	06/01/2009				D
BLK	13967-48-1			1.7E+01						L	13:01				
9131512	SB-125	1.15E-02	pCi/L	4.4E+00	U	7.59E+00			GAMMA_GS	2.5001E+00	06/01/2009				D
BLK	14234-35-6			4.4E+00						L	13:01				

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.

Tuesday, June 30, 2009

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LCRL71AB	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:** 04/28/2009 09:41
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 04/28/2009

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
9131513	PU-238	0.00E+00	pCi/L	8.7E-02	U	2.05E-01	93.6		PUISO_PLATE	2.00E-01	06/17/2009				D
BLK	13981-16-3			8.7E-02						L	20:46				
9131513	PU-239	0.00E+00	pCi/L	8.7E-02	U	2.04E-01	93.6		PUISO_PLATE	2.00E-01	06/17/2009				D
BLK	PU-239/240			8.7E-02						L	20:46				

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

Tuesday, June 30, 2009

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LCRLP1AB	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:** 04/29/2009 07:30
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 04/30/2009

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
9131509	I-129	-1.24E-03	pCi/L	8.9E-02	U	1.62E-01	86.2		I129LL_SEP_L	3.9848E+00	06/16/2009				D
BLK	15046-84-1			8.9E-02						L	18:36				

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

Tuesday, June 30, 2009

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LCRLR1AB	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:** 04/22/2009 14:16
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 04/23/2009

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
9131510	I-129L	4.68E-01	pCi/L	9.5E-01	U	1.91E+00	96.5		I129_SEP_LEP	4.999E-01	06/10/2009				D
BLK	15046-84-1			9.5E-01						L	20:51				

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

Tuesday, June 30, 2009

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LCRLV1AB	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:** 04/22/2009 14:31
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 04/23/2009

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
9131511	BE-7	2.38E+00	pCi/L	1.2E+01	U	2.14E+01			GAMMALL_GS	2.00E+00	06/01/2009				D
BLK	13966-02-4			1.2E+01						L	18:33				
9131511	CO-60	7.06E-02	pCi/L	9.7E-01	U	1.86E+00			GAMMALL_GS	2.00E+00	06/01/2009				D
BLK	10198-40-0			9.7E-01						L	18:33				
9131511	CS-134	3.24E-01	pCi/L	1.1E+00	U	2.00E+00			GAMMALL_GS	2.00E+00	06/01/2009				D
BLK	13967-70-9			1.1E+00						L	18:33				
9131511	CS-137	1.08E+00	pCi/L	1.0E+00	U	2.02E+00			GAMMALL_GS	2.00E+00	06/01/2009				D
BLK	10045-97-3			1.0E+00						L	18:33				
9131511	EU-152	-1.86E+00	pCi/L	2.5E+00	U	4.09E+00			GAMMALL_GS	2.00E+00	06/01/2009				D
BLK	14683-23-9			2.5E+00						L	18:33				
9131511	EU-154	9.94E-01	pCi/L	3.0E+00	U	5.85E+00			GAMMALL_GS	2.00E+00	06/01/2009				D
BLK	15585-10-1			3.0E+00						L	18:33				
9131511	EU-155	-1.14E+00	pCi/L	2.1E+00	U	3.52E+00			GAMMALL_GS	2.00E+00	06/01/2009				D
BLK	14391-16-3			2.1E+00						L	18:33				
9131511	K-40	-1.86E+01	pCi/L	2.1E+01	U	4.12E+01			GAMMALL_GS	2.00E+00	06/01/2009				D
BLK	13966-00-2			2.1E+01						L	18:33				
9131511	RU-106	-1.11E+01	pCi/L	9.7E+00	U	1.51E+01			GAMMALL_GS	2.00E+00	06/01/2009				D
BLK	13967-48-1			9.7E+00						L	18:33				
9131511	SB-125	-9.66E-01	pCi/L	2.5E+00	U	4.29E+00			GAMMALL_GS	2.00E+00	06/01/2009				D
BLK	14234-35-6			2.5E+00						L	18:33				

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

Tuesday, June 30, 2009

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LCRM11AB	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:** 04/28/2009 09:23
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 04/28/2009

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
9131521	C-14	-9.01E-01	pCi/L	4.1E+00	U	8.40E+00	100.0		C14_LSC	2.00E-01	06/24/2009				D
BLK	14762-75-5			3.4E+00						L	22:05				

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

Tuesday, June 30, 2009

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LCRMA2AB	**Sdg/Rept Nbr:**	W05646 41821	**Collection Date:**	04/28/2009 09:41
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	04/28/2009

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
9131514	Uranium	-1.48E-02	ug/L	4.0E-03	U	8.38E-02			UTOT_KPA	2.50E-02	06/05/2009				D
BLK	7440-61-1			4.0E-03						ML	09:22				

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

Tuesday, June 30, 2009

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LCRMF1AB	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:** 04/28/2009 09:41
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 04/28/2009

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
9131515	TC-99	-1.40E+01	pCi/L	6.0E+00	U	1.05E+01	100.0		TC99_ETVDSK	1.251E-01	06/11/2009				D
BLK	14133-76-7			4.1E+00						L	00:55				

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

Tuesday, June 30, 2009

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LCRMJ1AB	**Sdg/Rept Nbr:**	W05646 41821	**Collection Date:**	04/28/2009 09:23
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	04/28/2009

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
9131516	SR-90	-3.14E-02	pCi/L	3.5E-01	U	7.73E-01	55.2		SRISO_SEP_P	1.0007E+00	06/18/2009				D
BLK	10098-97-2			3.5E-01						L	05:00				

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

Tuesday, June 30, 2009

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LCRML1AB	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:** 04/28/2009 09:41
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 04/28/2009

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
9131517	ALPHA	5.09E-02	pCi/L	3.9E-01	U	1.02E+00	100.0		9310_ALPHAB	2.001E-01	05/19/2009				D
BLK	12587-46-1			3.9E-01						L	05:20				

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

Tuesday, June 30, 2009

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LCRMN1AB	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:** 04/28/2009 09:41
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 04/28/2009

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
9131518	BETA	-2.19E-01	pCi/L	1.2E+00	U	2.64E+00	100.0		9310_ALPHAB	2.00E-01	05/20/2009				D
BLK	12587-47-2			1.2E+00						L	07:41				

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

Tuesday, June 30, 2009

TestAmerica QC Blank Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LCRMV1AB	**Sdg/Rept Nbr:**	W05646 41821	**Collection Date:**	04/22/2009 13:10
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	04/23/2009

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
9131520	NI-63	-8.59E-01	pCi/L	2.4E+00	U	3.69E+00	93.0		NI63_LSC	4.00E-01	06/10/2009				D
BLK	13981-37-8			1.5E+00						L	21:27				

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

Tuesday, June 30, 2009

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LCRL21CS	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:** 04/28/2009 09:41
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 04/28/2009

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
9131512	CO-60	3.28E+01	pCi/L	5.5E+00		1.59E+00		3.07E+01	GAMMA_GS	2.5001E+00	06/01/2009			70	D
BS	10198-40-0			5.5E+00				107.1		L	13:02			130	
9131512	CS-137	4.33E+01	pCi/L	6.3E+00		2.10E+00		4.08E+01	GAMMA_GS	2.5001E+00	06/01/2009			70	D
BS	10045-97-3			6.3E+00				106.3		L	13:02			130	
9131512	EU-152	6.56E+01	pCi/L	1.1E+01		4.57E+00		6.16E+01	GAMMA_GS	2.5001E+00	06/01/2009			70	D
BS	14683-23-9			1.1E+01				106.6		L	13:02			130	

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

Tuesday, June 30, 2009

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LCRL71CS	**Sdg/Rept Nbr:**	W05646 41821	**Collection Date:**	04/28/2009 09:41
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	04/28/2009

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
9131513	PU-239	4.86E+00	pCi/L	1.2E+00		2.36E-01	75.6	4.52E+00	PUISO_PLATE	2.00E-01	06/17/2009			70	D
BS	PU-239/240			9.8E-01				107.5		L	20:47			130	

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

Tuesday, June 30, 2009

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LCRLP1CS	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:**	04/29/2009 07:30
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:**	04/30/2009

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
9131509	I-129	1.02E+01	pCi/L	1.1E+00		2.23E-01	93.3	9.58E+00	I129LL_SEP_L	4.0001E+00	06/17/2009			70	D
BS	15046-84-1			1.1E+00				106.3		L	06:51			130	

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

Tuesday, June 30, 2009

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LCRLR1CS	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:** 04/22/2009 14:16
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 04/23/2009

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
9131510	I-129L	4.63E+01	pCi/L	7.1E+00		2.78E+00	95.9	4.51E+01	I129_SEP_LEP	5.00E-01	06/10/2009			70	D
BS	15046-84-1			7.1E+00				102.6		L	22:35			130	

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

Tuesday, June 30, 2009

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LCRLV1CS	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:** 04/22/2009 14:31
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 04/23/2009

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
9131511	CO-60	3.80E+01	pCi/L	6.8E+00		3.33E+00		3.84E+01	GAMMALL_GS	2.0001E+00	06/01/2009			70	D
BS	10198-40-0			6.8E+00				99.0		L	18:33			130	
9131511	CS-137	5.12E+01	pCi/L	7.9E+00		3.42E+00		4.94E+01	GAMMALL_GS	2.0001E+00	06/01/2009			70	D
BS	10045-97-3			7.9E+00				103.6		L	18:33			130	
9131511	EU-152	7.67E+01	pCi/L	1.5E+01		8.05E+00		7.68E+01	GAMMALL_GS	2.0001E+00	06/01/2009			70	D
BS	14683-23-9			1.5E+01				99.9		L	18:33			130	

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

Tuesday, June 30, 2009

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LCRM11CS	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:**	04/28/2009 09:23
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:**	04/28/2009

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
9131521	C-14	4.01E+01	pCi/L	5.7E+00		8.39E+00	100.0	4.68E+01	C14_LSC	2.00E-01	06/24/2009			70	D
BS	14762-75-5			4.7E+00				85.6		L	22:48			130	

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

Tuesday, June 30, 2009

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LCRMA2CS	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:** 04/28/2009 09:41
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 04/28/2009

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
9131514	Uranium	3.57E+01	ug/L	4.2E+00		8.38E-02		3.73E+01	UTOT_KPA	2.50E-02	06/05/2009			70	D
BS	7440-61-1			4.2E+00				95.8		ML	09:28			130	

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

Tuesday, June 30, 2009

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LCRMA2DS	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:** 04/28/2009 09:41
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 04/28/2009

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
9131514	Uranium	3.62E+00	ug/L	3.7E-01		8.35E-02		3.60E+00	UTOT_KPA	2.51E-02	06/05/2009			70	D
BS	7440-61-1			3.7E-01				100.5		ML	09:30			130	

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

Tuesday, June 30, 2009

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LCRMF1CS	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:** 04/28/2009 09:41
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 04/28/2009

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
9131515	TC-99	5.40E+02	pCi/L	4.0E+01		1.08E+01	100.0	5.54E+02	TC99_ETVDSK	1.25E-01	06/11/2009			70	D
BS	14133-76-7			1.4E+01				97.4		L	00:55			130	

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

Tuesday, June 30, 2009

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LCRMJ1CS	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:** 04/28/2009 09:23
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 04/28/2009

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
9131516	SR-90	1.33E+01	pCi/L	2.2E+00		7.33E-01	62.1	1.36E+01	SRISO_SEP_P	1.0001E+00	06/18/2009			70	D
BS	10098-97-2			8.6E-01				98.1		L	05:00			130	

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

Tuesday, June 30, 2009

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LCRML1CS	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:** 04/28/2009 09:41
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 04/28/2009

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
9131517	ALPHA	1.82E+01	pCi/L	4.6E+00		8.76E-01	100.0	2.28E+01	9310_ALPHAB	2.001E-01	05/19/2009			70	D
BS	12587-46-1			2.8E+00				79.7		L	05:20			130	

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

Tuesday, June 30, 2009

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LCRMN1CS	**Sdg/Rept Nbr:**	W05646 41821	**Collection Date:**	04/28/2009 09:41
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	04/28/2009

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
9131518	BETA	2.34E+01	pCi/L	3.8E+00		2.70E+00	100.0	2.27E+01	9310_ALPHAB	2.001E-01	05/20/2009			70	D
BS	12587-47-2			2.4E+00				103.0		L	07:41			130	

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

Tuesday, June 30, 2009

TestAmerica QC Control Sample Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id: LCRMV1CS **Sdg/Rept Nbr:** W05646 41821 **Collection Date:** 04/22/2009 13:10

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 04/23/2009

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
9131520	NI-63	3.33E+02	pCi/L	2.1E+01		3.64E+00	94.8	3.81E+02	NI63_LSC	4.00E-01	06/10/2009			70	D
BS	13981-37-8			5.3E+00				87.3		L	23:10			130	

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

Tuesday, June 30, 2009

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LA43C1GR	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:** 04/28/2009 09:23
Client Id:	B202K1	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 04/28/2009

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I09-032	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
9131516	SR-90	3.56E-02	pCi/L	3.6E-01	U	7.85E-01	50.1		SRISO_SEP_P	1.0003E+00	06/18/2009	121.0	0.4		D
DUP	10098-97-2	1.45E-01		3.6E-01						L	05:00	20.0	3		

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

Tuesday, June 30, 2009

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id: LA4GX1JR **Sdg/Rept Nbr:** W05646 41821 **Collection Date:** 04/28/2009 09:41

Client Id: B209K1 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 04/28/2009

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I09-033	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
9131512	BE-7	-2.67E+00	pCi/L	1.1E+01	U	1.93E+01			GAMMA_GS	2.50E+00	06/01/2009	0.0	0.1		D
DUP	13966-02-4	-3.34E+00		1.1E+01						L	16:35	20.0	3		
9131512	CO-60	3.53E-01	pCi/L	1.1E+00	U	2.21E+00			GAMMA_GS	2.50E+00	06/01/2009	16.2	0.1		D
DUP	10198-40-0	3.00E-01		1.1E+00						L	16:35	20.0	3		
9131512	CS-134	7.10E-01	pCi/L	1.1E+00	U	2.20E+00			GAMMA_GS	2.50E+00	06/01/2009	35.3	0.3		D
DUP	13967-70-9	4.97E-01		1.1E+00						L	16:35	20.0	3		
9131512	CS-137	-1.03E-01	pCi/L	1.0E+00	U	1.89E+00			GAMMA_GS	2.50E+00	06/01/2009	0.0	0.1		D
DUP	10045-97-3	1.51E-03		1.0E+00						L	16:35	20.0	3		
9131512	EU-152	5.58E-01	pCi/L	2.9E+00	U	5.28E+00			GAMMA_GS	2.50E+00	06/01/2009	0.0	1.1		D
DUP	14683-23-9	-1.70E+00		2.9E+00						L	16:35	20.0	3		
9131512	EU-154	-1.36E+00	pCi/L	3.0E+00	U	5.18E+00			GAMMA_GS	2.50E+00	06/01/2009	517.5	2.1		D
DUP	15585-10-1	3.07E+00		3.0E+00						L	16:35	20.0	3		
9131512	EU-155	-6.78E-01	pCi/L	2.1E+00	U	3.50E+00			GAMMA_GS	2.50E+00	06/01/2009	0.0	0.6		D
DUP	14391-16-3	2.00E-01		2.1E+00						L	16:35	20.0	3		
9131512	K-40	2.05E+01	pCi/L	2.1E+01	U	1.78E+01			GAMMA_GS	2.50E+00	06/01/2009	4527.9	2.6		D
DUP	13966-00-2	-1.88E+01		2.1E+01						L	16:35	20.0	3		
9131512	RU-106	4.01E-01	pCi/L	1.0E+01	U	1.88E+01			GAMMA_GS	2.50E+00	06/01/2009	173.7	0.7		D
DUP	13967-48-1	5.69E+00		1.0E+01						L	16:35	20.0	3		
9131512	SB-125	5.15E-01	pCi/L	2.6E+00	U	4.74E+00			GAMMA_GS	2.50E+00	06/01/2009	0.0	0.7		D
DUP	14234-35-6	-8.50E-01		2.6E+00						L	16:35	20.0	3		

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

Tuesday, June 30, 2009

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LA4GX1KR	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:** 04/28/2009 09:41
Client Id:	B209K1	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 04/28/2009

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I09-033	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
9131513	PU-238	0.00E+00	pCi/L	8.4E-02	U	1.98E-01	84.6		PUISO_PLATE	2.00E-01	06/17/2009	200.0	0.8		D
DUP	13981-16-3	4.56E-02		8.4E-02						L	20:46	20.0	3		
9131513	PU-239	-2.48E-02	pCi/L	8.7E-02	U	2.61E-01	84.6		PUISO_PLATE	2.00E-01	06/17/2009	0.0	0.3		D
DUP	PU-239/240	-9.11E-03		8.7E-02						L	20:46	20.0	3		

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

Tuesday, June 30, 2009

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LA4GX1PR	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:** 04/28/2009 09:41
Client Id:	B209K1	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 04/28/2009

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I09-033	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
9131515	TC-99	-5.70E+00	pCi/L	6.6E+00	U	1.12E+01	100.0		TC99_ETVDSK	1.25E-01	06/11/2009	0.0	0.5		D
DUP	14133-76-7	-7.97E+00		4.5E+00						L	00:55	20.0	3		

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

Tuesday, June 30, 2009

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id: LA4GX1QR **Sdg/Rept Nbr:** W05646 41821 **Collection Date:** 04/28/2009 09:41

Client Id: B209K1 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 04/28/2009

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I09-033	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
9131517	ALPHA	1.04E+00	pCi/L	1.3E+00	U	2.17E+00	100.0		9310_ALPHAB	1.923E-01	05/19/2009	17.6	0.2		D
DUP	12587-46-1	1.24E+00		1.2E+00						L	04:18	20.0	3		

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

Tuesday, June 30, 2009

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LA4GX1RR	**Sdg/Rept Nbr:**	W05646 41821	**Collection Date:**	04/28/2009 09:41
Client Id:	B209K1	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	04/28/2009

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I09-033	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
9131518	BETA	5.65E+00	pCi/L	1.9E+00		2.94E+00	100.0		9310_ALPHAB	2.00E-01	05/20/2009	49.4	2.8		D
DUP	12587-47-2	9.35E+00		1.7E+00						L	07:41	20.0	3		

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

Tuesday, June 30, 2009

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LA4GX2MR	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:**	04/28/2009 09:41
Client Id:	B209K1	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:**	04/28/2009

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I09-033	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
9131514	Uranium	2.18E+00	ug/L	2.2E-01		8.38E-02			UTOT_KPA	2.50E-02	06/05/2009	.0	0.		D
DUP	7440-61-1	2.17E+00		2.2E-01						ML	09:36	20.0	3		

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

Tuesday, June 30, 2009

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LA4K41CR	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:**	04/28/2009 09:23
Client Id:	B20371	**Matrix:**	WATER	WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:**	04/28/2009

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S09-004	MW6-SBB-A19981								BC	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
9131521	C-14	4.91E+03	pCi/L	1.8E+02		8.40E+00	100.0		C14_LSC	2.00E-01	06/25/2009	7.2	2.6		D
DUP	14762-75-5	4.57E+03		3.5E+01						L	00:13	20.0	3		

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

Tuesday, June 30, 2009

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LA6QX1CR	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:** 04/29/2009 07:30
Client Id:	B202X7	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 04/30/2009

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I09-033	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
9131509	I-129	-2.41E-02	pCi/L	8.2E-02	U	1.45E-01	91.1		I129LL_SEP_L	3.8862E+00	06/16/2009	0.0	0.		D
DUP	15046-84-1	-2.21E-02		8.2E-02						L	15:12	20.0	3		

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

Tuesday, June 30, 2009

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id: LAVA41CR **Sdg/Rept Nbr:** W05646 41821 **Collection Date:** 04/22/2009 14:16

Client Id: B202N8 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 04/23/2009

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I09-033	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
9131510	I-129L	-2.55E-02	pCi/L	1.1E+00	U	2.01E+00	99.2		I129_SEP_LEP	5.001E-01	06/10/2009	0.0	0.		D
DUP	15046-84-1	-3.92E-02		1.1E+00						L	22:27	20.0	3		

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

Tuesday, June 30, 2009

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LAVFJ1DR	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:** 04/22/2009 14:31
Client Id:	B205J4	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 04/23/2009

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W09-004	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
9131511	BE-7	7.00E+00	pCi/L	1.8E+01	U	3.32E+01			GAMMALL_GS	2.00E+00	06/01/2009	15.6	0.1		D
DUP	13966-02-4	8.19E+00		1.8E+01						L	16:34	20.0	3		
9131511	CO-60	1.63E+00	pCi/L	1.9E+00	U	3.74E+00			GAMMALL_GS	2.00E+00	06/01/2009	2.9	0.		D
DUP	10198-40-0	1.59E+00		1.9E+00						L	16:34	20.0	3		
9131511	CS-134	-9.13E-01	pCi/L	1.9E+00	U	3.19E+00			GAMMALL_GS	2.00E+00	06/01/2009	0.0	1.3		D
DUP	13967-70-9	8.67E-01		1.9E+00						L	16:34	20.0	3		
9131511	CS-137	1.15E+00	pCi/L	1.9E+00	U	3.43E+00			GAMMALL_GS	2.00E+00	06/01/2009	196.2	0.9		D
DUP	10045-97-3	1.10E-02		1.9E+00						L	16:34	20.0	3		
9131511	EU-152	5.26E-01	pCi/L	3.7E+00	U	6.53E+00			GAMMALL_GS	2.00E+00	06/01/2009	17.4	0.		D
DUP	14683-23-9	4.42E-01		3.7E+00						L	16:34	20.0	3		
9131511	EU-154	3.41E+00	pCi/L	5.5E+00	U	1.06E+01			GAMMALL_GS	2.00E+00	06/01/2009	405.0	1.2		D
DUP	15585-10-1	-1.16E+00		5.5E+00						L	16:34	20.0	3		
9131511	EU-155	-1.66E+00	pCi/L	2.9E+00	U	4.77E+00			GAMMALL_GS	2.00E+00	06/01/2009	0.0	0.9		D
DUP	14391-16-3	1.59E-01		2.9E+00						L	16:34	20.0	3		
9131511	K-40	-2.90E+01	pCi/L	3.7E+01	U	7.49E+01			GAMMALL_GS	2.00E+00	06/01/2009	0.0	1.5		D
DUP	13966-00-2	9.94E+00		3.7E+01						L	16:34	20.0	3		
9131511	RU-106	6.29E+00	pCi/L	1.5E+01	U	2.82E+01			GAMMALL_GS	2.00E+00	06/01/2009	1984.5	1.		D
DUP	13967-48-1	-5.14E+00		1.5E+01						L	16:34	20.0	3		
9131511	SB-125	-1.16E+00	pCi/L	3.8E+00	U	6.58E+00			GAMMALL_GS	2.00E+00	06/01/2009	0.0	0.		D
DUP	14234-35-6	-1.20E+00		3.8E+00						L	16:34	20.0	3		

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J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Tuesday, June 30, 2009

TestAmerica QC Duplicate Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LAVFL1ER	**Sdg/Rept Nbr:**	W05646 41821	**Collection Date:**	04/22/2009 13:10
Client Id:	B205J8	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	04/23/2009

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
W09-004	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
9131520	NI-63	4.26E+02	pCi/L	2.6E+01		3.81E+00	89.6		NI63_LSC	4.001E-01	06/10/2009	1.1	0.3		D
DUP	13981-37-8	4.22E+02		6.1E+00						L	19:45	20.0	3		

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

Tuesday, June 30, 2009

TestAmerica Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LA4GX1NW	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:** 04/28/2009 09:41
Client Id:	B209K1	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	MS		**Received Date:** 04/28/2009

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I09-033	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
9131515	TC-99	3.58E+03	pCi/L	2.3E+02		1.10E+01	100.0	3.62E+03	TC99_ETVDSK	1.25E-01	06/11/2009			60	D
MS	14133-76-7			3.4E+01				98.9		L	00:55			140	

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

Tuesday, June 30, 2009

TestAmerica Qc Matrix Spike Report

Lab Code: TARL

FormNbr: R FormatType: FEAD VersionNbr: 05 File Name: h:\Reportdb\edd\FeadIV\Rad\W05646.Edd, h:\Reportdb\edd\FeadIV\Rad\41821.Edd

Lab Sample Id:	LA4GX2LW	**Sdg/Rept Nbr:**	W05646	41821	**Collection Date:** 04/28/2009 09:41
Client Id:	B209K1	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	MS		**Received Date:** 04/28/2009

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I09-033	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
9131514	Uranium	3.45E+01	ug/L	4.3E+00		8.35E-02		3.63E+01	UTOT_KPA	2.51E-02	06/05/2009			60	D
MS	7440-61-1			4.3E+00				95.0		ML	09:34			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

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TA Richland
Hexavalent Chromium - Water

Analyst:	L. Dinh	Calibration Curve Information				SOP Information		BATCH #	9120541
Start Date:	4/28/2009		Amount	Conc.(mg/L)	ABS.	RL-WC-003		SDG #	WO5646
Start Time:		Blank	0.000	0.000	0.000	Revision 0		Matrix	Water
End Date:	4/28/2009	Std. 1	0.100	0.050	0.098				
End Time		Std. 2	0.500	0.250	0.485			Instrument Information	
		Std. 3	0.750	0.375	0.718	MDL (mg/L)	0.0037	Instrument:	Hach DR2010
Analyst Signature:		Std. 4	1.500	0.750	1.421			Wavelength:	540
		Std 5	2.000	1.000	1.875			R Squared	0.99989
Date:	05/11/09	Standard Volume (mL):			100.000			Slope:	1.87583
		Date of Curve:			4/28/2009			Intercept:	0.00802

	Calibration Information:	ICV Information:		LCS Information:		Matrix Spike Information:	
Dilution ID #	Cr-09-00139	Cr-09-00140		Cr-09-00139		Cr-09-00139	
Prep Date:	04/28/09	04/28/09		04/28/09		04/28/09	
Concentration (mg/L)	50	50		50		50	
Expiration Date:	04/29/09	04/29/09		04/29/09		04/29/09	
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	0.965	0.000	0.965	1	0.5102	0.510	102.03%
n/a	n/a	ICB	100.000	0.002	0.000	0.002	1	-0.0032	<MDL	
LA5J11AA	n/a	Prep Blank	100.000	0.003		0.003	1	-0.0027	<MDL	
LA5J11AC	n/a	LCS	100.000	0.970		0.970	1	0.5128	0.513	102.57%
LA4H81AA	B209K5'	Sample	100.000	0.006		0.006	1	-0.0011	<MDL	
LA4H81AC-S	B209K5'-MS	MS	100.000	0.508		0.508	1	0.2665	0.267	101.28%
LA4H81AD-D	B209K5'-MSD	MSD	100.000	0.510		0.510	1	0.2676	0.268	101.69%
LA4H81AE-X	B209K5'-DUP	Duplicate	100.000	0.005		0.005	1	-0.0016	<MDL	
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
n/a	n/a	CCV	100.000	0.966		0.966	1	0.5107	0.511	102.14%
n/a	n/a	CCB	100.000	0.004		0.004	1	-0.0021	<MDL	
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			

TESTAMERICA

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TA Richland
Hexavalent Chromium - Water

Analyst:	L. Dinh	Calibration Curve Information				SOP Information		BATCH #	9120540
Start Date:	4/28/2009		Amount	Conc.(mg/L)	ABS.	RL-WC-003		SDG #	WO5646
Start Time:		Blank	0.000	0.000	0.000	Revision 0		Matrix	Water
End Date:	4/28/2009	Std. 1	0.100	0.050	0.098				
End Time		Std. 2	0.500	0.250	0.485			Instrument Information	
		Std. 3	0.750	0.375	0.718	MDL (mg/L)	0.0037	Instrument:	Hach DR2010
Analyst Signature:		Std. 4	1.500	0.750	1.421			Wavelength:	540
		Std 5	2.000	1.000	1.875			R Squared	0.99989
Date:	05/11/09	Standard Volume (mL):			100.000			Slope:	1.87583
		Date of Curve:			4/28/2009			Intercept:	0.00802

		Calibration Information:	ICV Information:		LCS Information:		Matrix Spike Information:	
Dilution ID #		Cr-09-00139	Cr-09-00140		Cr-09-00139		Cr-09-00139	
Prep Date:		04/28/09	04/28/09		04/28/09		04/28/09	
Concentration (mg/L)		50	50		50		50	
Expiration Date:		04/29/09	04/29/09		04/29/09		04/29/09	
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	0.965	0.000	0.965	1	0.5102	0.510	102.03%
n/a	n/a	ICB	100.000	0.004	0.000	0.004	1	-0.0021	<MDL	
LA5JW1AA	n/a	Prep Blank	100.000	0.003		0.003	1	-0.0027	<MDL	
LA5JW1AC	n/a	LCS	100.000	0.966		0.966	1	0.5107	0.511	102.14%
LA43C1AA	B202K1'	Sample	100.000	0.011		0.011	1	0.0016	<MDL	
* LA43C1AC-S	B202K1'-MS	MS	100.000	0.511		0.511	1	0.2681	0.268	101.89%
** LA43C1AD-D	B202K1'-MSD	MSD	100.000	0.515		0.515	1	0.2708	0.270	102.70%
*** LA43C1AE-X	B202K1'-DUP	Duplicate	100.000	0.008		0.008	1	0.0000	<MDL	
F			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
n/a	n/a	CCV	100.000	0.964		0.964	1	0.5096	0.510	101.93%
n/a	n/a	CCB	100.000	0.002		0.002	1	-0.0032	<MDL	
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			
			100.000				1			

SKS 5/12/09

* ~~LA43C1AD~~ LA43C1AD
** LA43C1AE
*** LA43C1AF
SKS 5/12/09

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/18/2009 9:42:04 AM

Lot No., Due Date: J9D300187; 06/19/2009

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 9131513; RPUISO Pulso by ALP

SDG, Matrix: W05646; WATER

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

6.0 Comments on any No response:

First Level Review John Horton **Date** 6-18-9

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 9131513

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: 6/22/09

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

5/22/2009 10:08:57 AM

Lot No., Due Date: J9D300187; 06/19/2009

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 9131517; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W05646; WATER

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

6.0 Comments on any No response:

First Level Review John Norton **Date** 5-22-9

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 9131517

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

Comments on any "No" response: _____

Second Level Review: Erika [illegible] Date: 8/22/9

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

5/22/2009 10:10:17 AM

Lot No., Due Date: J9D300187; 06/19/2009

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 9131518; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W05646; WATER

1.0 COC

1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions? Yes ✓ No N/A

2.0 QC Batch

2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet? Yes ✓ No N/A

2.2 Are the QC appropriate for the analysis included in the batch? Yes ✓ No N/A

2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc? Yes ✓ No N/A

2.4 Does the Worksheets include a Tracer Vial label for each sample? Yes ✓ No N/A

3.0 QC & Samples

3.1 Is the blank results, yield, and MDA within contract limits? Yes ✓ No N/A

3.2 Is the LCS result, yield, and MDA within contract limits? Yes ✓ No N/A

3.3 Are the MS/MSD results, yields, and MDA within contract limits? Yes ✓ No N/A

3.4 Are the duplicate result, yields, and MDAs within contract limits? Yes ✓ No N/A

3.5 Are the sample yields and MDAs within contract limits? Yes ✓ No N/A

4.0 Raw Data

4.1 Were results calculated in the correct units? Yes ✓ No N/A

4.2 Were analysis volumes entered correctly? Yes ✓ No N/A

4.3 Were Yields entered correctly? Yes ✓ No N/A

4.4 Were spectra reviewed/meet contractual requirements? Yes ✓ No N/A

4.5 Were raw counts reviewed for anomalies? Yes ✓ No N/A

5.0 Other

5.1 Are all nonconformances included and noted? Yes ✓ No N/A

5.2 Are all required forms filled out? Yes ✓ No N/A

5.3 Was the correct methodology used? Yes ✓ No N/A

5.4 Was transcription checked? Yes ✓ No N/A

5.5 Were all calculations checked at a minimum frequency? Yes ✓ No N/A

5.6 Are worksheet entries complete and correct? Yes ✓ No N/A

6.0 Comments on any No response:

First Level Review John Norton **Date** 5-22-9

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 913518

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

Comments on any "No" response: _____

Second Level Review: Erika Ford Date: 6/22/19

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/18/2009 9:43:32 AM

Lot No., Due Date: J9D300244; 06/19/2009

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 9131516; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W05646; WATER

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 6-18-9

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 9131576

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 C. Date: 6/22/09

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/3/2009 10:49:14 AM

Lot No., Due Date: J9D300192,J9D270162; 06/19/2009

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 9131511; RGAMMA Gamma by GER

SDG, Matrix: W05646; 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:
The sample was re-counted in order to provide a duplicate.

First Level Review Jon Norton **Date** 6-3-9

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 913151

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: 6/16/09

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/3/2009 10:44:02 AM

Lot No., Due Date: J9D300187; 06/19/2009

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 9131512; RGAMMA Gamma by GER

SDG, Matrix: W05646; 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:

The sample was re-counted for the purposes of duplication.

First Level Review John Norton **Date** 6-3-9

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 9131512

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: 6/16/09

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/18/2009 10:12:52 AM

Lot No., Due Date: J9D300187,J9D300192,J9E010173,J9D270148,J9D270152,J9D270162; 06/19/2009

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 9131509; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05646; WATER

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

6.0 Comments on any No response:

First Level Review John Morton **Date** 6-18-9

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 9131509

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: 4/22/09

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/11/2009 12:11:36 PM

Lot No., Due Date: J9D270148; 06/19/2009

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 9131510; RGAMLEPS Gamma by LEPS

SDG, Matrix: W05646; WATER

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

6.0 Comments on any No response:

First Level Review John Westerman **Date** 6-11-9

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 9131510

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: 6/15/09

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/15/2009 1:16:46 PM

Lot No., Due Date: J9D300187; 06/19/2009

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 9131515; RTC99 Tc-99 by LSC

SDG, Matrix: W05646; WATER

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

6.0 Comments on any No response:

First Level Review John Horton **Date** 6-15-9

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 9131515

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: 6/16/09

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/25/2009 3:16:42 PM

Lot No., Due Date: J9D300195; 06/19/2009

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 9131521; RC14 C-14 by LSC

SDG, Matrix: W05646; WATER

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 6-25-9

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

Batch Number: 913521

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

Comments on any "No" response: _____

Second Level Review: Erika Ford Date: 6/26/9

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/11/2009 2:18:27 PM

Lot No., Due Date: J9D270162; 06/19/2009

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 9131520; RNI63 Ni-63 by LSC

SDG, Matrix: W05646; WATER

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

6.0 Comments on any No response:

First Level Review John Coston **Date** 6-11-9

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 9131520

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: 6/15/09

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

6/9/2009 8:16:13 AM

Lot No., Due Date: J9D300187; 06/19/2009

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 9131514; RUNAT UNat by KPA

SDG, Matrix: W05646; WATER

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

6.0 Comments on any No response:
Please see NCM # 10-14529

First Level Review [signature] **Date** 6-9-9

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Data Review Checklist

RADIOCHEMISTRY

Second Level Review

Batch Number: 9131514

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 C. Date: 6/16/09

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

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: 10-14529
NCM Initiated By: John Norton
Date Opened: 06/09/2009
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Counting
Tests: UNat by KPA
Lot #'s (Sample #'s): J9D300187 (1), J9E110000 (514),
QC Batches: 9131514,

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

Problem Description / Root Cause

Name	Date	Description
John Norton	06/09/2009	When first counted these samples provided a low reference ratio.

Corrective Action

Name	Date	Corrective Action
John Norton	06/09/2009	The samples were re-counted for acceptable results.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

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

Approval History

Date Approved	Approved By	Position

Date Printed: 6/9/2009

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): **9120541**

Lab Sample Numbers or SDG: **W05649-46** LWD 6/11/09 J9D300188 Due 6/19

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: [signature] Date: 5/11/09

Second-Level Review: SSeger Date: 5/12/09

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): **9120540**

Lab Sample Numbers or SDG: **W0564946** HND 5/11/09 J9D300244 Due 6/19

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: Leon Dil Date: 5/11/09

Second-Level Review: S Seger Date: 5/12/09

TESTAMERICA

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I09-033-11
		Page 1 of 1

Collector SE Hamaker CHPRC	Contact/Requester Dana Widrig	Telephone No. 509-376-2858 MSIN FAX
SAF No. I09-033	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 2ZP1, APRIL 2009	~~HNF-N-506~~ 21 / 39	Ice Chest No. 004 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 ** ** SOG WO 56646 JPD 270148 Due 6/8/09

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B202N4		W	4-22-09	1208	1x20-mL P	Activity Scan LAVAO	6 Months	None
B202N4		W	4-22-09	1208	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None

DRW 4-22-09

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
SE Hamaker CHPRC		Scott Hamaker	1500 APR 22 2009	SSU #1			1500 APR 22 2009
SSU #1			4/23/09 0800	Scott HAMAKER		Scott Hamaker	4/23/09 0800
Scott HAMAKER		Scott Hamaker	4/23/09 0905	DAVID HARBINSON			4/23/09 0905
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TESTAMERICA

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I09-033-17
		Page 1 of 1

Collector SE Hamaker CHPRC	Contact/Requester Dana Widrig	Telephone No. 509-376-2858 MSIN FAX
SAF No. I09-033	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 2ZP1 APRIL 2009	HNF-N-506-21 / 39	Ice Chest No. 004 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)

WG 5L4L6 JAN 270148 Rec 4/22/09

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

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B202N8		W	4-22-09	1416	1x20-mL P	Activity Scan LAVAL	6 Months	None
B202N8		W	4-22-09	1416	2x4000-mL G/P	I129_SEP_LEPS_GS: I-129 (1)	6 Months	None

DRW 4-22-09

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
SE Hamaker CHPRC			APR 22 2009 1500	SSU #1			1500 APR 22 2009
SSU #1			4/23/09 0800	Scott Hamaker			4/23/09 0800
Scott Hamaker			4/23/09 0905	David Hardinson			4/23/09 0905
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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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 4/23/09 23 LMA 4/27/09 GM Screen Results 0.2mR/hr

Client: Hanford SDG #: 56446 400 NA [ ] SAF #: I09-033 NA [ ]

Work Order Number: J9D270148 Chain of Custody # I09-033-11 I09-003-17

Shipping Container ID: 004 Air Bill # N/A

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

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

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

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

6. Number of samples in shipping container: 10

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

8. Samples have:
   - ✓ tape
   - ✓ custody seals
   - ____ hazard labels
   - ✓ appropriate samples labels

9. Samples are:
   - ✓ in good condition
   - ____ broken
   - ____ leaking
   - ____ have air bubbles (Only for samples requiring head space)

10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ] Amount of HNO3 Added _____

11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.

12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]

13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 4/25/09

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, Rev. 8, 3/09

TESTAMERICA

CHPRC

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # A09-004-1

Page 1 of 1

Collector: AR McIntyre	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No.: A09-004	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: LLWMA(2)-PA, APRIL 2009	~~HNF-N-506~~ 2317	Ice Chest No.: 004 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: Other	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS

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

WO Eleile 152 Due 6/18/09 LMA 4/27/09
J9D270HF8 LMA 4/27/09 6/18/09

SPECIAL INSTRUCTIONS Hold Time

200 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B20050		W	4-22-09	0927	1x20-mL P	Activity Scan LMA 4/27/09	6 Months	None
B20050		W	1	1	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1) LAVCF	6 Months	None

DS 4-22-09

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
AR McIntyre		APR 22 2009 1500	SSU1		APR 22 2009 1500
SSU #1		4/23/09 0800	Scott Hamaker	Scott Hamaker	4/23/09 0800
Scott Hamaker	Scott Hamaker	4/23/09 0905	David Harbinson		4/23/09 0905
Relinquished By		Date/Time	Received By		Date/Time

Matrix *

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

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

TESTAMERICA

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # A09-004-27
		Page 1 of 1

Collector: AR McIntyre	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No.: A09-004	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: LLWMA(2)-PA, APRIL 2009	~~HNF-N-506~~ 2317	Ice Chest No.: 004 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: Other	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)
J9D270152
WQ5646

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

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B20066		W	4-22-09	1149	1x20-mL P	Activity Scan LAWCM	6 Months	None
B20066		W	1	1	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None

4-22-09

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
AR McIntyre			APR 22 2009 1500	SSU			APR 22 2009 1500
SSU #1			4/23/09 0800	SCOTT HAMAKER			4/23/09 0800
SCOTT HAMAKER			4/23/09 0905	DAVID HARBINSON			4/23/09 0905

Matrix *

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

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 4/23/09 23 UMA 4/27/09 GM Screen Results 0.2 mR/hr

Client: Ha-Ford SDG #: WD56446 NA [ ] SAF #: A09-004 NA [ ]

Work Order Number: 9D270152 Chain of Custody # A09-004-27 A09-004-1

Shipping Container ID: 004 Air Bill # N/A

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

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

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

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

6. Number of samples in shipping container: 10

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

8. Samples have:
   - ✓ tape
   - ✓ custody seals
   - ___ hazard labels
   - ✓ appropriate samples labels

9. Samples are:
   - ✓ in good condition
   - ___ broken
   - ___ leaking
   - ___ have air bubbles (Only for samples requiring head space)

10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ] Amount of HNO3 Added _____

11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.

12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]

13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 4/25/09

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, Rev. 8, 3/09

TESTAMERICA

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W09-004-220
		Page 1 of 1

Collector: AR McIntyre	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No.: W09-004	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, APRIL 2009	HNF-N-506-231 I	Ice Chest No.: 00X Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time — Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.
WO 516416
J90270162
Due 6/8/09

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B205J4		W	4-22-09	1431	1x20-mL P	Activity Scan LAVFJ	6 Months	None
B205J4		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B205J4		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None

4-22-09

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
AR McIntyre		APR 22 2009 1500	SSU 1		APR 22 2009 1500
SSU #1		4/23/09 0800	SCOTT HAMAKER		4/23/09 0800
SCOTT HAMAKER		4/23/09 0905	DAVID HARBINSON		4/23/09 0905

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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TESTAMERICA

CHPRC AR McIntyre	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W09-004-226 Page 1 of 1

Collector: AR McIntyre PS 4/22/09	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No.: W09-004	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA APRIL 2009	HNF-N-508-2317	Ice Chest No.: 004 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.
WOSLEVLE
J9D270162
DLeLe 8/09

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B205J8		W	4-22-09	1310	1x20-mL P	Activity Scan LAVFL	6 Months	None
B205J8		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2
B205J8		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
B205J8		W			1x1000-mL G/P	NI63_LSC: Nickel-63 (1)	6 Months	HNO3 to pH <2

4-22-09

Relinquished By	Date/Time	Received By	Date/Time
AR McIntyre (Print) / (Sign)	APR 22 2009 1500	3541 (Print) / (Sign)	APR 22 2009 1500
SSU #7	4/23/09 0800	SCOTT HAMAKER	4/23/09 0800
SCOTT HAMAKER	4/23/09 0905	DAVID HARBINSON	4/23/09 0905

Matrix *

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

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

TESTAMERICA

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W09-004-236
		Page 1 of 1

Collector: KJ Young – CHPRC	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No.: W09-004	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA APRIL 2009	HNF-N-506-20 / 89	Ice Chest No.: GRF-03-004 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.
WO 51646
J9D270162
Due 6/8/09

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B205K5		W	4/22/09	0915	1x20-mL P	Activity Scan LA VFP	6 Months	None
B205K5		W	4/22/09	0915	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None

KRS 4/22/09

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
KJ Young	CHPRC		APR 22 2009 1520	SSU #1			APR 22 2009 1520
SSU #1			4/23/09 0800	SCOTT HAMAKER			4/23/09 0800
SCOTT HAMAKER			4/23/09 0905	DAVID HARBINSON			4/23/09 0905
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

TESTAMERICA

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W09-004-246
		Page 1 of 1

Collector: KJ Young – CHPRC	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No.: W09-004	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA APRIL 2009	HNF-N-506-20189	Ice Chest No.: GRP-03-004 Temp.
Shipped To (Lab): TestAmerica Incorporated Richland	Method of Shipment: Govt Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.
WO5leu6
J9D370162
Due 6/8/09

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B205L2		W	4/22/09	1357	1x20-mL P	Activity Scan LAVF8	6 Months	None
B205L2		W	4/22/09	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None

RAS 4/22/09

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
KJ Young	APR 2 2 2009 1520	SSU #1	APR 2 2 2009 1520
SSU #2	4/23/09 0800	SCOTT HAMAKER	4/23/09 0800
SCOTT HAMAKER	4/23/09 0905	DAVID HARBINSON	4/23/09 0905

Matrix *

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

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

TESTAMERICA

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W09-004-192
		Page 1 of 1

Collector SE Hamaker CHPRC	Contact/Requester Dana Widrig	Telephone No. 509-376-2858 MSIN FAX
SAF No. W09-004	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA, APRIL 2009	~~HNF N-506~~ 21 / 39	Ice Chest No. 00 ✓ Temp.
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.
WO 56446
J9D270162 Due Feb 09

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B205F2		W	4-22-09	1313	1x20-mL P	Activity Scan (A V G)	6 Months	None
B205F2		W	4-22-09	1313	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2

DRW
4-22-09

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
SE Hamaker CHPRC		Scott Hamaker	1500 APR 22 2009	SSU #1			1500 APR 22 2009
SSU #1			4/23/09 0800	SCOTT HAMAKER		Scott Hamaker	4/23/09 0800
SCOTT HAMAKER		Scott Hamaker	4/23/09 0905	DAVID HARBINSON			4/23/09 0905

Matrix *

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

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

TESTAMERICA

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W09-004-182
		Page 1 of 1

Collector SE Hamaker CHPRC	Contact/Requester Dana Widrig	Telephone No. 509-376-2858 MSIN FAX
SAF No. W09-004	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA APRIL 2009	HNF-N-506- 21 / 39	Ice Chest No. 004 Temp.
Shipped To (Lab) TestAmerica Incorporated Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Site-Wide Generator Knowledge Information Form applies.
WO 5646
J9T270162
Due 6/8/09

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B205D5		W	4-22-09	1416	1x20-mL P	Activity Scan LAV62	6 Months	None
B205D5		W	4-22-09	1416	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2

DHW 4-22-09

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
SE Hamaker CHPRC		Scott Hamaker	APR 22 2009 1500	SSU #1			1500 APR 22 2009
SSU #1			4/23/09 0800	SCOTT HAMAKER		Scott Hamaker	4/23/09 0800
SCOTT HAMAKER		Scott Hamaker	4/23/09 0905	DAVID HARBINSON			4/23/09 0905
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

23 CMA 4/27/09

Sample Check-in List

Date/Time Received: 4/23/09 GM Screen Results 0.2 mR/hr

Client: Hanford SDG #: W0560116 NA [ ] SAF #: W09-004 NA [ ]

Work Order Number: J90270162 Chain of Custody # W09-004-192, W09-004-220, W09-004-226, W09-004-236, W09-004-246, W09-004-182

Shipping Container ID: 004 Air Bill #

1. Custody Seals on shipping container intact? Yes [✓] No [ ]
2. Custody Seals dated and signed? Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 10
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ✓ tape
   - ✓ custody seals
   - ___ hazard labels
   - ✓ appropriate samples labels
9. Samples are:
   - ✓ in good condition
   - ___ broken
   - ___ leaking
   - ___ have air bubbles (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ] Amount of HNO3 Added _____
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 4/25/09

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, Rev. 8, 3/09

TESTAMERICA

CHPRC W056646 J903000187

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I09-033-174

Page 1 of 1

Collector: AR McIntyre	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No.: I09-033	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2ZP1, APRIL 2009	HNF-N-506-21 140	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
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
B209K1		W	4-28-09	0941	1x20-mL P	Activity Scan LA46X	6 Months	None
B209K1		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None
B209K1		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	6 Months	HNO3 to pH <2
B209K1		W			3x1000-mL G/P	GAMMA_GS: List-1 (10)	6 Months	HNO3 to pH <2
B209K1		W			1x1000-mL G/P	PUISO_PLATE_AEA: Pu-238 + 239/240 (2)	6 Months	HNO3 to pH <2
B209K1		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	6 Months	HCl to pH <2
B209K1		W	4-28-09	0941	1x500-mL G/P	UTOT_KPA: Uranium (1)	6 Months	HNO3 to pH <2

4-28-09

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
AR McIntyre			APR 28 2009 1450	DAVID HARBINSON			APR 28 2009 1450
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 4/28/2009 1450 GM Screen Results 0-2mR/hr

Client: Hanford SDG #: W0516116 NA [ ] SAF #: I09-033 NA [ ]

Work Order Number: J9D300187 Chain of Custody # I 09-033-174

Shipping Container ID:_____ Air Bill #_____

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

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

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

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

6. Number of samples in shipping container: 1

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

8. Samples have:
   ___ tape
   ✓ custody seals
   ✓ hazard labels
   ✓ appropriate samples labels

9. Samples are:
   ✓ in good condition
   ___ broken
   ___ leaking
   ___ have air bubbles
   (Only for samples requiring head space)

   d, pi d I-129

10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ] Amount of HNO3 Added_____

11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.

12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]

13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 4/29/09

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on_____ by_____ Person contacted_____

[ ] No action necessary; process as is.

Project Manager_____ Date_____

LS-023, Rev. 8, 3/09

TESTAMERICA

CHPRC W056116 JPD300188

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I09-033-178

Collector AR McIntyre	Contact/Requester Dana Widrig	Telephone No. 509-376-2858 MSIN FAX
SAF No. I09-033	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 2ZP1 APRIL 2009	HNF-N-506-21 140	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
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
B209K5	LA4H8	W	4-28-09	1236	1x20-mL P	Activity Scan	6 Months	None
B209K5		W	/	/	1x500-mL aG	7196_CR6: Hexavalent Chromium (1)	24 Hours	Cool~4C

4-28-09

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
AR McIntyre			APR 28 2009 1450	DAVID HARRISON			APR 28 2009 1450
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 4/28/09 1430 GM Screen Results 0.4mR/hr

Client: PGW SDG #: WD5LCL6 NA [ ] SAF #: I09-033 NA [ ]

Work Order Number: J9D300188 Chain of Custody # I09-033-178

Shipping Container ID: _____ Air Bill # _____

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

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

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

4. Cooler temperature: 4°C 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 labels
   - ✓ appropriate samples labels

9. Samples are:
   - ✓ in good condition
   - ___ broken
   - ___ leaking
   - ___ have air bubbles (Only for samples requiring head space)

10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [✓] pH>9 [ ] Amount of HNO3 Added _____

11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.

12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]

13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 4/29/09

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, Rev. 8, 3/09

TESTAMERICA

CHPRC W05L4116 J9D300192

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W09-004-270

Collector: DJ Sparks CHPRC	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No.: W09-004	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA, APRIL 2009	HNF-N-506-22 / 15	Ice Chest No. Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: RCRA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS **Hold Time**
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
B205M8	LA4J2	W	4/27/09	1203	1x20-mL P	Activity Scan	6 Months	None
B205M8		W	"	"	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None

4/27/09

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DJ Sparks CHPRC			APR 27 2009 1430	SSU			APR 27 2009 1430
SSU			APR 28 2009 1030	RD Ellingsworth CHPRC			APR 28 2009 1030
RD Ellingsworth CHPRC			APR 28 2009 1200	DAVID HARBINSON			APR 28 2009 1200
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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TESTAMERICA

CHPRC W09E416 J9D300192

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W09-004-252

Page 1 of 1

Collector SE Hamaker	Contact/Requester Dana Widrig	Telephone No. 509-376-2858 MSIN FAX
SAF No. CHPRC W09-004	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title RCRA APRIL 2009	HNF-N-506- 20190	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
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
B205L6	LA4KL	W	4/27/09	1356	1x20-mL P	Activity Scan	6 Months	None
B205L6		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None

4/27/09

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
SE Hamaker CHPRC			APR 27 2009 1450	SSU #1			1450 APR 27 2009
SSU #1			1030 APR 28 2009	RD Ellingsworth CHPRC			1030 APR 28 2009
RD Ellingsworth CHPRC			APR 28 2009 1200	DAVID HARBINSON			1200 APR 28 2009
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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TESTAMERICA

CHPRC W05E416 J9D300192

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W09-004-198

Page 1 of 1

Collector: SE Hamaker CHPRC	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No.: W09-004	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: RCRA APRIL 2009	HNF-N-506- 20190	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
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
B205F4	LALKP	W	4/27/09	1048	1x20-mL P	Activity Scan	6 Months	None
B205F4		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	6 Months	HNO3 to pH <2

KEM 4/27/09

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
SE Hamaker CHPRC		Scott Hamaker	APR 27 2009 1450	SSU #1			1450 APR 27 2009
SSU 1			1030 APR 28 2009	RD Ellingsworth CHPRC		R Ellingsworth	1030 APR 28 2009
RD Ellingsworth CHPRC		R Ellingsworth	1200 APR 28 2009	DAVID HARBINSON			1200 APR 28 2009
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

106

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 4/28/09 1200 GM Screen Results 0.2 mR/hr

Client: Hanford SDG #: W056446 NA [ ] SAF #: W09-004 NA [ ]

Work Order Number: J9D300192 Chain of Custody # W09-004-270 W09-004-252

Shipping Container ID: _____ Air Bill # W09-004-198

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

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

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

4. Cooler temperature: 10°C NA [ ] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]

6. Number of samples in shipping container: 12

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

8. Samples have:
   - ✓ tape
   - ✓ custody seals
   - ✓ hazard labels
   - ✓ appropriate samples labels

9. Samples are:
   - ✓ in good condition
   - ___ broken
   - ___ leaking
   - ___ have air bubbles (Only for samples requiring head space)

10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ] Amount of HNO3 Added _____

Gamma I-129

11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.

12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]

13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 4/29/09

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, Rev. 8, 3/09

CHPRC WO5LLLE J90300195

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S09-004-42

Collector: R. A. Shepard	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No.: S09-004	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, APRIL 2009	HNF-N-506- 221 16	Ice Chest No. Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: SURV	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time
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
B20371		W	4-28-09	0923	1x20-mL P	Activity Scan LA4KH	6 Months	None
B20371		W	↓	↓	2x1000-mL G/P	C14_LSC: C-14 (1)	6 Months	None

APR 28 2009

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. A. Shepard			APR 28 2009 0940	R Ellingsworth			APR 28 2009 0940
R Ellingsworth			4-28-09 1200	DAVID HARBINSON			4-28-09 1200

Matrix *

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

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

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 4/28/09 1200 GM Screen Results 0.2 mR/hr

Client: Hanford SDG #: W05Q4K NA [ ] SAF #: S09-004 NA [ ]

Work Order Number: J9D300195 Chain of Custody # S09-004-42

Shipping Container ID: _____ Air Bill # _____

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

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

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

4. Cooler temperature: 10°C NA [ ] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]

6. Number of samples in shipping container: 12

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

8. Samples have:
   ___✓___ tape
   ___✓___ custody seals
   ___✓___ hazard labels
   ___✓___ appropriate samples labels

9. Samples are:
   ___✓___ in good condition
   _____ broken
   _____ leaking
   _____ have air bubbles
   (Only for samples requiring head space)

10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ] Amount of HNO3 Added _____

Gamma I-129

11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.

12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]

13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 4/29/09

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, Rev. 8, 3/09

TESTAMERICA

CHPRC W056446 J9D300244

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I09-032-76

Page 1 of 1

Collector: R. A. Shepard	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No.: I09-032	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100KR4IAM(1/2) APRIL 2009	HNF-N-506- 22 / 16	Ice Chest No. Temp.
Shipped To (Lab): TestAmerica Incorporated Richland	Method of Shipment: Govt Vehicle	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

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

SPECIAL INSTRUCTIONS Hold Time
100 Area Generator Knowledge Information Form applies.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B202K1		W	4-28-09	0923	1x500-mL aG	7196_CR6: Hexavalent Chromium (1) LAUZC.	24 Hours	Cool~4C
B202K1		W	↓	↓	1x20-mL P	Activity Scan	6 Months	None
B202K1		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	6 Months	HNO3 to pH <2

APR 28 2009

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. A. Shepard			APR 28 2009 0940	RD Ellingsworth CHPRC			APR 28 2009 0940
RD Ellingsworth CHPRC			4-28-09 1200	David HARBINSON			4-28-09 1200

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

110

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 4/28/09 1200 WD GM Screen Results 0.8 mR/hr

Client: Hanford SDG #: 56416 NA [ ] SAF #: I09-032 NA [ ]

Work Order Number: 9103002416 Chain of Custody # I09-032-76

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? Yes [✓] No [ ]
2. Custody Seals dated and signed? Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: 10°C NA [ ] 5. Vermiculite/packing materials is NA [✓] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 12
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ✓ tape
   - ✓ custody seals
   - ✓ hazard labels
   - ✓ appropriate samples labels
9. Samples are:
   - ✓ in good condition
   - ____ broken
   - ____ leaking
   - ____ have air bubbles (Only for samples requiring head space)

Gamma I-129

10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ] Amount of HNO3 Added _____
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 4/29/09

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, Rev. 8, 3/09

TESTAMERICA

WO 5E4L6
J9Z010173

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I09-033-102

S. Overdahl CHPRC	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No.: I09-033	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2ZP1, APRIL 2009	~~HNF-N-508~~ 22117	Ice Chest No.: GW5-001 Temp.
Shipped To (Lab): TestAmerica Incorporated, Richland	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

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

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

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B202X7		W	4/29/09	0730	1x20-mL P	Activity Scan LA(QX	6 Months	None
B202X7		W	4/29/09	0730	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None

4/29/09 1100

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
S. Overdahl CHPRC			APR 29 2009	SSU#1			APR 29 2009
SSU 1			APR 30 2009 0800	KB Hulse CHPRC			APR 30 2009 0800
KB Hulse CHPRC			APR 30 2009 1055	David Harbison			4-30-2009 1055

Matrix *:

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

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

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TESTAMERICA

CHPRC SDG WO J9E010 | 56446 173

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I09-033-101

Page 1 of 1

Collector: S. Overdahl CHPRC	Contact/Requester: Dana Widrig	Telephone No.: 509-376-2858 MSIN FAX
SAF No.: I09-033	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2ZP1 APRIL 2009	HNF-N-506- 221 17	Ice Chest No.: GWS-001 Temp.
Shipped To (Lab): TestAmerica Incorporated Richland	Method Of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

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

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

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID		Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B202X6	4-29-09	W	4-29-09	1050	1x20-mL P	Activity Scan CALCQ4	6 Months	None
B202X6	↓	W	↓ 4-29-09	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	6 Months	None

4-29-09

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
S. Overdahl CHPRC		APR 29 2009	SSUTH		APR 29 2009
SSUTH		APR 30 2009 0900	KB Hulse CHPRC		APR 30 2009 0900
KB Hulse CHPRC		APR 30 2009 1055	DAVID HARBINSON		4-30-2009 1055

Matrix *

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

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

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 4/30/09 1055 GM Screen Results 0.4 mR/hr

Client: Hanford SDG #: W0516416 NA [ ] SAF #: I09-033 NA [ ]

Work Order Number: J9201073 Chain of Custody # 101, 102

Shipping Container ID: GWS-001 Air Bill # N/A

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

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

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

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

6. Number of samples in shipping container: 14

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

8. Samples have:
   - [✓] tape
   - [✓] custody seals
   - [✓] hazard labels
   - [✓] appropriate samples labels

9. Samples are:
   - [✓] in good condition
   - [ ] broken
   - [ ] leaking
   - [ ] have air bubbles (Only for samples requiring head space)

I-129

10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ] Amount of HNO3 Added _____

11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.

12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]

13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] Date: 4/30/09

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, Rev. 8, 3/09

TESTAMERICA

5/27/2009 8:35:40 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

6D Pu PrpRC5016, SepRC5010(5039)
SO Plutonium-238,239/40 by Alpha Spec
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/19/2009 W05646

Sep1 DT/Tm Tech:

Batch: 9131513 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 LA4GX-1-AE J9D300187-1-SAMP 04/28/2009 09:41	AmtRec: 5XLP,2X500MLP,2X4LP,VIAL #Containers: 10	199.90g,in	putc11199 03/23/09,pd 06/07/94,r	200		Scr:	Alpha: 2.17E-03 uCi/Sa	Beta: -1.91E-03 uCi/Sa
2 LA4GX-1-AK-X J9D300187-1-DUP 04/28/2009 09:41	AmtRec: 5XLP,2X500MLP,2X4LP,VIAL #Containers: 10	200.00g,in	PUTC11200 03/23/09,pd 06/07/94,r			Scr:	Alpha: 2.17E-03 uCi/Sa	Beta: -1.91E-03 uCi/Sa
3 LCRL7-1-AA-B J9E110000-513-BLK 04/28/2009 09:41	AmtRec:	200.00g,in	PUTC11201 03/23/09,pd 06/07/94,r			Scr:	Alpha:	Beta:
4 LCRL7-1-AC-C J9E110000-513-LCS 04/28/2009 09:41	AmtRec:	200.00g,in	PUSG0987 05/08/09,pd 06/07/94,r			Scr:	Alpha:	Beta:

131 125 127 115 128

Comments: PH<2.0. RJL 52709

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

LA4GX1AE-SAMP Constituent List:

PU-238	RDL:1	pCi/L	LCL:	UCL:	RPD:	PU-239	RDL:1	pCi/L	LCL:70	UCL:130	RPD:20
Pu-242	RDL:	pCi/L	LCL:20	UCL:105	RPD:20						

LCRL71AA-BLK:

PU-238	RDL:1	pCi/L	LCL:	UCL:	RPD:	PU-239	RDL:1	pCi/L	LCL:	UCL:	RPD:
Pu-242	RDL:	pCi/L	LCL:20	UCL:105	RPD:20						

LCRL71AC-LCS:

PU-239	RDL:1	pCi/L	LCL:70	UCL:130	RPD:20	Pu-242	RDL:	pCi/L	LCL:20	UCL:105	RPD:20

TESTAMERICA

5/27/2009 8:35:41 AM

Sample Preparation/Analysis

6D Pu PrpRC5016, SepRC5010(5039)
SO Plutonium-238,239/40 by Alpha Spec
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 06/19/2009

Sep1 DT/Tm Tech:

Batch: 9131513 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	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

LA4GX1AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LCRL71AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LCRL71AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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6/18/2009 9:41:27 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/18/2008, 6/23/2009, Batch: '9131513', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
9131513							
AC			Rev1C	LaneL	5/27/2009 8:28:14		
SC				wagarr	IsBatched	5/12/2009 8:59:59 AM	ICOC_RADCALC v4.8.35
SC				LaneL	InPrep	5/27/2009 8:28:14 AM	RL-PRP-004 REVISION 0
SC				Barcotl	Prep2C	6/16/2009 1:57:11 PM	RL-PRP-010 REVISION 0
SC				Barcotl	Sep1C	6/16/2009 1:57:30 PM	RL-ALP-001 REVISION 0
SC				AshworthA	Sep2C	6/17/2009 2:32:47 PM	ALP-015 REVISION 0
SC				ClarkR	InCnt1	6/17/2009 2:39:44 PM	RL-CI-008 REVISION 0
SC				BlackCL	CalcC	6/18/2009 7:08:19 AM	RL-CI-008 REVISION 0
SC				nortonj	Rev1C	6/18/2009 9:41:15 AM	RL-DR-001 REV 0
AC				Barcotl	6/16/2009 1:57:11 PM		
AC				Barcotl	6/16/2009 1:57:30 PM		
AC				AshworthA	6/17/2009 2:32:47 PM		
AC				ClarkR	6/17/2009 2:39:44 PM		
AC				BlackCL	6/18/2009 7:08:19		
AC				nortonj	6/18/2009 9:41:15		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.36

TESTAMERICA

5/14/2009 11:20:22 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AZ Gross Alpha Prp GPC001
S7 Gross Alpha by GPC using Am-241 curve
5I CLIENT: HANFORD

Pipet #: 245

AnalyDueDate: 06/19/2009 WO5646

Sep1 DT/Tm Tech:

Batch: 9131517 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,LaneL | Bock J

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 LA4GX-1-AA J9D300187-1-SAMP 04/28/2009 09:41		192.30g,in AmtRec: 5XLP,2X500MLP,2X4LP,VIAL #Containers: 10		1.5	57.1	50	10D	0444	5/19/09	Scr: Alpha: 2.17E-03 uCi/Sa Beta: -1.91E-03 uCi/Sa
2 LA4GX-1-AQ-X J9D300187-1-DUP 04/28/2009 09:41		192.30g,in AmtRec: 5XLP,2X500MLP,2X4LP,VIAL #Containers: 10			59.4		10E			Scr: Alpha: 2.17E-03 uCi/Sa Beta: -1.91E-03 uCi/Sa
3 LCRML-1-AA-B J9E110000-517-BLK 04/28/2009 09:41		200.10g,in AmtRec: #Containers: 1			0.3		10A	0546	5/19/09	Scr: Alpha: Beta:
4 LCRML-1-AC-C J9E110000-517-LCS 04/28/2009 09:41		200.10g,in AmtRec: #Containers: 1	ASD4783 04/07/09,pd 04/04/05,r		0.6		10B			Scr: Alpha: Beta:

Comments: PH<2.0. REDUCED VOL D/T WT SCREEN. [illegible] 5 14 09

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

LA4GX1AA-SAMP Constituent List:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
LCRML1AA-BLK:					
ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
LCRML1AC-LCS:					
Am-241	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

LA4GX1AA-SAMP Calc Info:

TESTAMERICA

5/14/2009 11:20:23 AM

Sample Preparation/Analysis

AZ Gross Alpha Prp GPC001
S7 Gross Alpha by GPC using Am-241 curve
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 06/19/2009

Sep1 DT/Tm Tech:

Batch: 9131517 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

LCRML1AA-BLK:

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

LCRML1AC-LCS:

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

Approved By _____ Date: _____

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5/22/2009 10:08:22 AM

ICOC Fraction Transfer/Status Report

ByDate: 5/22/2008, 5/27/2009, Batch: '9131517', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
9131517						
AC		**Rev1C**	**LaneL**	5/14/2009 11:16:00		
SC			wagarr	IsBatched	5/12/2009 8:59:59 AM	ICOC_RADCALC v4.8.35
SC			LaneL	InPrep	5/14/2009 11:16:00 AM	RL-PRP-004 REVISION 0
SC			LaneL	Prep1C	5/14/2009 11:20:42 AM	RL-PRP-004 REVISION 0
SC			BockJ	InPrep2	5/18/2009 10:35:34 AM	RL-GPC-001 REVISION 0
SC			BockJ	Prep2C	5/18/2009 4:57:05 PM	RL-GPC-001 REVISION 0
SC			DAWKINSO	InCnt1	5/18/2009 7:08:33 PM	RL-CI-006 REVISION 0
SC			BlackCL	CalcC	5/19/2009 6:30:13 AM	RL-CI-006 REVISION 0
SC			nortonj	Rev1C	5/22/2009 10:08:17 AM	RL-DR-001 REV 0
AC			**LaneL**	5/14/2009 11:20:42		
AC			**BockJ**	5/18/2009 10:35:34		
AC			**BockJ**	5/18/2009 4:57:05 PM		
AC			**DAWKINSO**	5/18/2009 7:08:33 PM		
AC			**BlackCL**	5/19/2009 6:30:13		
AC			**nortonj**	5/22/2009 10:08:17		

AC: Accepting Entry; SC: Status Change

TESTAMERICA

5/14/2009 11:27:11 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

BC Gross Beta Prp GPC001
S8 Gross Beta by GPC using Sr/Y-90 curve
5I CLIENT: HANFORD

Pipet #: 245

AnalyDueDate: 06/19/2009 WO5646

Sep1 DT/Tm Tech:

Batch: 9131518 WATER pCi/L

PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

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 LA4GX-1-AH J9D300187-1-SAMP 04/28/2009 09:41	AmtRec: 5XLP,2X500MLP,2X4LP,VIAL	200.10g,in		1.5	109.4	100	21A	0848	5/14/09	#Containers: 10 Scr: Alpha: 2.17E-03 uCi/Sa Beta: -1.91E-03 uCi/Sa
2 LA4GX-1-AR-X J9D300187-1-DUP 04/28/2009 09:41	AmtRec: 5XLP,2X500MLP,2X4LP,VIAL	200.00g,in			104.8		21B			#Containers: 10 Scr: Alpha: 2.17E-03 uCi/Sa Beta: -1.91E-03 uCi/Sa
3 LCRMN-1-AA-B J9E110000-518-BLK 04/28/2009 09:41	AmtRec:	200.00g,in			0		21C			#Containers: 1 Scr: Alpha: Beta:
4 LCRMN-1-AC-C J9E110000-518-LCS 04/28/2009 09:41	AmtRec:	200.10g,in	BESB3439 03/10/09,pd 10/01/01,r		0		21D			#Containers: 1 Scr: Alpha: Beta:

Comments: pH<2.0. 5/14/09

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

LA4GX1AH-SAMP Constituent List:

BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
LCRMN1AA-BLK:					
BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
LCRMN1AC-LCS:					
Sr-90	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

LA4GX1AH-SAMP Calc Info:

5/14/2009 11:27:11 AM

Sample Preparation/Analysis

BC Gross Beta Prp GPC001
S8 Gross Beta by GPC using Sr/Y-90 curve
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 06/19/2009

Sep1 DT/Tm Tech:

Batch: 9131518 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

LCRMN1AA-BLK:

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

LCRMN1AC-LCS:

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

Approved By _____ Date: _____

5/22/2009 10:09:50 AM

ICOC Fraction Transfer/Status Report

ByDate: 5/22/2008, 5/27/2009, Batch: '9131518', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
9131518						
AC		Rev1C	LaneL	5/14/2009 11:22:25		
SC			wagarr	IsBatched	5/12/2009 8:59:59 AM	ICOC_RADCALC v4.8.35
SC			LaneL	InPrep	5/14/2009 11:22:25 AM	RL-PRP-004 REVISION 0
SC			LaneL	Prep1C	5/14/2009 11:27:31 AM	RL-PRP-004 REVISION 0
SC			BockJ	InPrep2	5/18/2009 10:35:39 AM	RL-GPC-001 REVISION 0
SC			BockJ	Prep2C	5/18/2009 4:57:17 PM	RL-GPC-001 REVISION 0
SC			DAWKINSO	InCnt1	5/18/2009 7:08:49 PM	RL-CI-006 REVISION 0
SC			ClarkR	CalcC	5/20/2009 9:04:27 AM	RL-CI-006 REVISION 0
SC			nortonj	Rev1C	5/22/2009 10:09:39 AM	RL-DR-001 REV 0
AC			LaneL	5/14/2009 11:27:31		
AC			BockJ	5/18/2009 10:35:39		
AC			BockJ	5/18/2009 4:57:17 PM		
AC			DAWKINSO	5/18/2009 7:08:49 PM		
AC			ClarkR	5/20/2009 9:04:27		
AC			nortonj	5/22/2009 10:09:39		

AC: Accepting Entry; SC: Status Change

TESTAMERICA

5/28/2009 11:03:04 AM

Sample Preparation/Analysis

Balance Id:1120413753

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

CL Sr-90 Prp/Sep GPC003(GPC004)
TL Sr-85 by NaI and Sr-90 by GPC 7 day ingrowth
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/19/2009 WO 56446

Sep1 DT/Tm Tech: 6/4/09 1330 LND

Sep2 DT/Tm Tech: 6-16-09 0805 DM

Batch: 9131516 WATER pCi/L PM, Quote: SS , 57671

SEQ Batch, Test: None All Tests: 9120540 88EA, 9131516 CLTL,

Prep Tech: ,McDowellD

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 LA43C-1-AC J9D300244-1-SAMP	YTA19334 Ex:12/11/2009	990.10g,in	SRTB16611 05/01/09		1"	14.7	100	9" 4A 4A	1623 0657 0800	6/4/2009 OR 6/17/09 6/18/09	
1691 / 2020.5 = .8369 04/28/2009 09:23		AmtRec: 3XLP,500MLP,VIAL	#Containers: 5					Scr:	Alpha: 2.17E-04 uCi/Sa	Beta: 2.59E-04 uCi/Sa	
2 LA43C-1-AG-X J9D300244-1-DUP	YTA19335 Ex:12/11/2009	1000.30g,in	SRTB16612 05/01/09			14.6		3" 4B 4B	1623 0657 0800	6/4/2009 OR 6/17/09 6/18/09	
1764 / 2023.6 = .8717 04/28/2009 09:23		AmtRec: 3XLP,500MLP,VIAL	#Containers: 5					Scr:	Alpha: 2.17E-04 uCi/Sa	Beta: 2.59E-04 uCi/Sa	
3 LCRMJ-1-AA-B J9E110000-516-BLK	YTA19336 Ex:12/11/2009	1000.70g,in	SRTB16613 05/01/09			15.6		3" 4C 4C	1701 0657 0800	6/4/2009 OR 6/17/09 6/18/09	
1813 / 2015.7 = .8994 04/28/2009 09:23		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:	
4 LCRMJ-1-AC-C J9E110000-516-LCS	YTA19337 Ex:12/11/2009	1000.10g,in	SRSG1527 04/01/09			17.6		3" 4D 4D	1753 0657 0800	6/4/2009 OR 6/17/09 6/18/09	
1830 / 2041.2 = .8965 04/28/2009 09:23		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:	

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TESTAMERICA

5/28/2009 11:03:05 AM

Sample Preparation/Analysis

CL Sr-90 Prp/Sep GPC003(GPC004)
TL Sr-85 by NaI and Sr-90 by GPC 7 day ingrowth
5I CLIENT: HANFORD

Balance Id:1120413753

Pipet #: _____

AnalyDueDate: 06/19/2009

Sep1 DT/Tm Tech:

Batch: 9131516 pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,McDowellD

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

Comments:

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

LA43C1AC-SAMP Constituent List:

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

LCRMJ1AA-BLK:

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

LCRMJ1AC-LCS:

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

LA43C1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LCRMJ1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LCRMJ1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

6/18/2009 9:42:48 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/18/2008, 6/23/2009, Batch: '9131516', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
9131516						
AC		**Rev1C**	**McDowellD**	5/28/2009 9:57:34		
SC			wagarr	IsBatched	5/12/2009 8:59:59 AM	ICOC_RADCALC v4.8.35
SC			McDowellD	InPrep	5/28/2009 9:57:34 AM	RL-GPC-003 REV 0
SC			ClarkR	InCnt1	6/4/2009 2:06:05 PM	RL-CI-007 REVISION 0
SC			DAWKINSO	Cnt1C	6/4/2009 8:31:54 PM	RL-CI-007 REVISION 0
SC			McDowellD	Sep2C	6/16/2009 11:55:28 AM	RL-GPC-004 REV 0
SC			ClarkR	InCnt2	6/16/2009 11:59:43 AM	RL-CI-006 REVISION 0
SC			BlackCL	CalcC	6/18/2009 7:08:51 AM	RL-CI-006 REVISION 0
SC			nortonj	Rev1C	6/18/2009 9:42:39 AM	RL-DR-001 REV 0
AC			**ClarkR**	6/4/2009 2:06:05 PM		
AC			**DAWKINSO**	6/4/2009 8:31:54 PM		
AC			**McDowellD**	6/16/2009 11:55:28		REVISION 0
AC			**ClarkR**	6/16/2009 11:59:43		
AC			**BlackCL**	6/18/2009 7:08:51		
AC			**nortonj**	6/18/2009 9:42:39		

AC: Accepting Entry; SC: Status Change

TESTAMERICA

5/27/2009 6:57:52 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AW Gamma Prp GAM001
TA Gamma by HPGE
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/19/2009 W05646

Sep1 DT/Tm Tech:

Batch: 9131511 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: LaneL Back J.

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 LAVFJ-1-AA J9D270162-1-SAMP 04/22/2009 14:31		2000.00g,in AmtRec: 3X4LP,VIAL #Containers: 4			100mLS	200	G8	2338	6/1/09	Scr: Alpha: 3.18E-03 uCi/Sa Beta: -2.56E-03 uCi/Sa
2 LAVFJ-1-AD-X J9D270162-1-DUP 04/22/2009 14:31		AmtRec: 3X4LP,VIAL #Containers: 4					G6	1954	6/1/09	Scr: Alpha: 3.18E-03 uCi/Sa Beta: -2.56E-03 uCi/Sa
3 LAVFL-1-AA J9D270162-2-SAMP 04/22/2009 13:10		2000.00g,in AmtRec: 3X4LP,VIAL,LP #Containers: 5					G10	2149		Scr: Alpha: 1.93E-03 uCi/Sa Beta: -6.07E-04 uCi/Sa
4 LAVGD-1-AA J9D270162-5-SAMP 04/22/2009 13:13		2000.00g,in AmtRec: 4LP,VIAL #Containers: 2					G5	2150		Scr: Alpha: 5.66E-04 uCi/Sa Beta: -9.89E-05 uCi/Sa
5 LAVGE-1-AA J9D270162-6-SAMP 04/22/2009 14:16		2000.00g,in AmtRec: 4LP,VIAL #Containers: 2					G13	2152		Scr: Alpha: 6.53E-04 uCi/Sa Beta: -1.44E-04 uCi/Sa
6 LA4KP-1-AA J9D300192-3-SAMP 04/27/2009 10:48		2000.00g,in AmtRec: 4LP,VIAL #Containers: 2					G15	2151		Scr: Alpha: 6.08E-04 uCi/Sa Beta: 5.59E-04 uCi/Sa
7 LCRLV-1-AA-B J9E110000-511-BLK 04/22/2009 14:31		2000.00g,in AmtRec: #Containers: 1					G11	2153		Scr: Alpha: Beta:

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TESTAMERICA

5/27/2009 6:57:58 AM

Sample Preparation/Analysis

AW Gamma Prp GAM001
TA Gamma by HPGE
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 06/19/2009

Sep1 DT/Tm Tech:

Batch: 9131511 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:
8 LCRLV-1-AC-C J9E110000-511-LCS 04/22/2009 14:31		2000.10g,in AmtRec:	QCAG1555 04/24/09,pd 06/08/05 r #Containers: 1		100 mLs	200	G7	2153	6/1/09	

Scr: Alpha: Beta:

Comments: LAVFJ-SAMP "Comments No dup d/t ISV. please recount on diff detector. LJL 052709"

pH< 2.0. RAR 5 27 09

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

LAVFJ1AA-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:

LCRLV1AA-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:

LCRLV1AC-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						

LAVFJ1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LCRLV1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LCRLV1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

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TESTAMERICA

5/27/2009 6:57:59 AM

Sample Preparation/Analysis

AW Gamma Prp GAM001
TA Gamma by HPGE
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 06/19/2009

Sep1 DT/Tm Tech:

Batch: 9131511 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: _____

6/3/2009 10:46:25 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/3/2008, 6/8/2009, Batch: '9131511', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
9131511						
AC		Rev1C	LaneL	5/27/2009 6:38:43		
SC			wagarr	IsBatched	5/12/2009 8:59:59 AM	ICOC_RADCALC v4.8.35
SC			LaneL	InPrep	5/27/2009 6:38:43 AM	RL-PRP-004 REVISION 0
SC			LaneL	Prep1C	5/27/2009 6:58:13 AM	RL-PRP-004 REVISION 0
SC			BockJ	InPrep2	5/29/2009 8:10:10 AM	RL-GAM-001 REVISION 0
SC			BockJ	Prep2C	6/1/2009 4:18:40 PM	RL-GAM-001 REVISION 0
SC			DAWKINSO	InCnt1	6/1/2009 4:36:40 PM	RL-CI-007 REVISION 0
SC			ClarkR	CalcC	6/2/2009 7:16:37 AM	RL-CI-007 REVISION 0
SC			nortonj	Rev1C	6/3/2009 10:46:18 AM	RL-DR-001 REV 0
AC			LaneL	5/27/2009 6:58:13		
AC			BockJ	5/29/2009 8:10:10		
AC			BockJ	6/1/2009 4:18:40 PM		
AC			DAWKINSO	6/1/2009 4:36:40 PM		
AC			ClarkR	6/2/2009 7:16:37 AM		
AC			nortonj	6/3/2009 10:46:18		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 7

ICOCFractions v4.8.36

TESTAMERICA

5/27/2009 9:21:08 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AW Gamma Prp GAM001
TA Gamma by HPGE
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/19/2009 W05646

Sep1 DT/Tm Tech:

Batch: 9131512 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: LaneL Bock

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 LA4GX-1-AC J9D300187-1-SAMP 04/28/2009 09:41		2500.00g,in AmtRec: 5XLP,2X500MLP,2X4LP,VIAL #Containers: 10			100 mLs	200	G7	1620 Scr: Alpha: 2.17E-03 uCi/Sa	6/1/09 ML Beta: -1.91E-03 uCi/Sa	
2 LA4GX-1-AJ-X J9D300187-1-DUP 04/28/2009 09:41		ISV AmtRec: 5XLP,2X500MLP,2X4LP,VIAL #Containers: 10					G8	1955 Scr: Alpha: 2.17E-03 uCi/Sa	6/1/09 ML Beta: -1.91E-03 uCi/Sa	
3 LCRL2-1-AA-B J9E110000-512-BLK 04/28/2009 09:41		2500.10g,in AmtRec: #Containers: 1					G14	1621 Scr: Alpha:	6/1/09 ML Beta:	
4 LCRL2-1-AC-C J9E110000-512-LCS 04/28/2009 09:41		2500.10g,in AmtRec: #Containers: 1	QCAG1556 04/24/09,pd 06/08/05 r				G11	1622 Scr: Alpha:	Beta:	

Comments: LA4GX-SAMP "Comments No dup d/t ISV. Please recount on diff detector. LJL 052709 "

PH<2.0. LJL 52709

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

LA4GX1AC-SAMP Constituent List:

Co-60	RDL:2.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:1.50E+01	pCi/L	LCL:70	UCL:130	RPD:20	Cs-137DA	RDL:1.50E+01	pCi/L	LCL:70	UCL:130	RPD:20
Eu-152	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	Eu-154	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:
Eu-155	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Sb-125	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:						

LCRL21AA-BLK:

TESTAMERICA

5/27/2009 9:21:09 AM

Sample Preparation/Analysis

Balance Id:1120482733

AW Gamma Prp GAM001
TA Gamma by HPGE
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/19/2009

Sep1 DT/Tm Tech:

Batch: 9131512 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:

Co-60	RDL:2.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-137DA	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:
Eu-152	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	Eu-154	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:
Eu-155	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:	K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Sb-125	RDL:5.00E+01	pCi/L	LCL:	UCL:	RPD:						
LCRL21AC-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						

LA4GX1AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LCRL21AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LCRL21AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

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6/3/2009 10:43:05 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/3/2008, 6/8/2009, Batch: '9131512', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
9131512						
AC		Rev1C	LaneL	5/27/2009 9:12:59		
SC			wagarr	IsBatched	5/12/2009 8:59:59 AM	ICOC_RADCALC v4.8.35
SC			LaneL	InPrep	5/27/2009 9:12:59 AM	RL-PRP-004 REVISION 0
SC			LaneL	Prep1C	5/27/2009 9:21:28 AM	RL-PRP-004 REVISION 0
SC			BockJ	InPrep2	5/28/2009 10:43:43 AM	RL-GAM-001 REVISION 0
SC			BockJ	Prep2C	6/1/2009 11:20:11 AM	RL-GAM-001 REVISION 0
SC			ClarkR	InCnt1	6/1/2009 11:23:16 AM	RL-CI-007 REVISION 0
SC			DAWKINSO	CalcC	6/1/2009 11:05:21 PM	RL-CI-007 REVISION 0
SC			nortonj	Rev1C	6/3/2009 10:43:00 AM	RL-DR-001 REV 0
AC			LaneL	5/27/2009 9:21:28		
AC			BockJ	5/28/2009 10:43:43		
AC			BockJ	5/29/2009 8:29:17		
AC			BockJ	6/1/2009 11:20:11		
AC			ClarkR	6/1/2009 11:23:16		
AC			DAWKINSO	6/1/2009 11:05:21 PM		
AC			nortonj	6/3/2009 10:43:00		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 8

ICOCFractions v4.8.36

TESTAMERICA

5/27/2009 3:30:13 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

BN I-129 Prp/Sep GAM002
TB Gamma by LEPD
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 06/19/2009 W05646

Sep1 DT/Tm Tech:

Batch: 9131509 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	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 LAVA0-1-AA J9D270148-1-SAMP 04/22/2009 12:08		3938.80g,in AmtRec: 2X4LP,VIAL	ITA8342 04/29/09 #Containers: 3		42.9	200	L4 Scr:	0745 Alpha: 1.55E-03 uCi/Sa	6/15/09 Beta: -3.74E-04 uCi/Sa	
2 LAVCF-1-AA J9D270152-1-SAMP 04/22/2009 09:27		3816.70g,in AmtRec: 2X4LP,VIAL	ITA8343 04/29/09 #Containers: 3		33.9		L5 Scr:	0745 Alpha: 1.16E-03 uCi/Sa	Beta: -1.08E-03 uCi/Sa	
3 LAVCM-1-AA J9D270152-2-SAMP 04/22/2009 11:49		3891.30g,in AmtRec: 2X4LP,VIAL	ITA8344 04/29/09 #Containers: 3		34.2		L4 Scr:	1945 Alpha: 1.22E-03 uCi/Sa	6/15/09 0900 Beta: 2.44E-04 uCi/Sa	
4 LAVFJ-1-AC J9D270162-1-SAMP 04/22/2009 14:31		3792.80g,in AmtRec: 3X4LP,VIAL	ITA8345 04/29/09 #Containers: 4		36.8		L5 Scr:	1947 Alpha: 3.18E-03 uCi/Sa	Beta: -2.56E-03 uCi/Sa	
5 LAVFL-1-AC J9D270162-2-SAMP 04/22/2009 13:10		3888.70g,in AmtRec: 3X4LP,VIAL,LP	ITA8346 04/29/09 #Containers: 5		34.6		L4 Scr:	0804 Alpha: 1.93E-03 uCi/Sa	6/16/09 Beta: -6.07E-04 uCi/Sa	
6 LAVFP-1-AA J9D270162-3-SAMP 04/22/2009 09:15		3813.60g,in AmtRec: 2X4LP,VIAL	ITA8347 04/29/09 #Containers: 3		34.4		L5 Scr:	0804 Alpha: 3.39E-05 uCi/Sa	Beta: 6.61E-05 uCi/Sa	
7 LAVF8-1-AA J9D270162-4-SAMP 04/22/2009 13:57		3888.10g,in AmtRec: 2X4LP,VIAL	ITA8348 04/29/09 #Containers: 3		34.9		L4 Scr:	1134 Alpha: 2.38E-03 uCi/Sa	6/16/09 Beta: -1.36E-03 uCi/Sa	

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: 7 Prep_SamplePrep v4.8.34

TESTAMERICA

5/27/2009 3:30:14 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

BN I-129 Prp/Sep GAM002
TB Gamma by LEPD
5I CLIENT: HANFORD

Balance Id:1120482733
Pipet #: _____

AnalyDueDate: 06/19/2009

Sep1 DT/Tm Tech:

Batch: 9131509 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	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 LA4GX-1-AD J9D300187-1-SAMP 04/28/2009 09:41		3890.10g,in AmtRec: 5XLP,2X500MLP,2X4LP,VIAL #Containers: 10	ITA8349 04/29/09		35.4	200	L5	1139	6/16/09 S	
							Scr:	Alpha: 2.17E-03 uCi/Sa		Beta: -1.91E-03 uCi/Sa
9 LA4J2-1-AA J9D300192-1-SAMP 04/27/2009 12:03		3834.50g,in AmtRec: 2X4LP,VIAL #Containers: 3	ITA8350 04/29/09		36.3		L4	1504	6/16/09 ME	
							Scr:	Alpha: 2.20E-03 uCi/Sa		Beta: -1.63E-03 uCi/Sa
10 LA4KL-1-AA J9D300192-2-SAMP 04/27/2009 13:56		3909.20g,in AmtRec: 2X4LP,VIAL #Containers: 3	ITA8351 04/29/09		35.4		L5	1506		
							Scr:	Alpha: 6.86E-05 uCi/Sa		Beta: 1.12E-03 uCi/Sa
11 LA6QX-1-AA J9E010173-1-SAMP 04/29/2009 07:30		3888.20g,in AmtRec: 2X4LP #Containers: 3	ITA8352 04/29/09		30.7		L4	1830	6/16/09 ME	
							Scr:	Alpha: 1.66E-03 uCi/Sa		Beta: -1.18E-03 uCi/Sa
12 LA6QX-1-AC-X J9E010173-1-DUP 04/29/2009 07:30		3886.20g,in AmtRec: 2X4LP #Containers: 3	ITA8353 04/29/09		33.7		L5	1832		
							Scr:	Alpha: 1.66E-03 uCi/Sa		Beta: -1.18E-03 uCi/Sa
13 LA6Q4-1-AA J9E010173-2-SAMP 04/29/2009 10:50		3904.50g,in AmtRec: 2X4LP #Containers: 3	ITA8354 04/29/09		35.4		L4	2155	6/16/09 ME	
							Scr:	Alpha: 9.61E-04 uCi/Sa		Beta: -2.06E-04 uCi/Sa
14 LCRLP-1-AA-B J9E110000-509-BLK 04/29/2009 07:30		3984.80g,in AmtRec: #Containers: 1	ITA8355 04/29/09		31.9		L5	2156		
							Scr:	Alpha:		Beta:

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TESTAMERICA

5/27/2009 3:30:15 PM

Sample Preparation/Analysis

Balance Id:1120482733

BN I-129 Prp/Sep GAM002
TB Gamma by LEPD
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/19/2009

Sep1 DT/Tm Tech:

Batch: 9131509 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:
15 LCRLP-1-AC-C		4000.10g,in	ISD0930		48.1	200	L4	1011	6/17 LS	
J9E110000-509-LCS			02/13/09							
04/29/2009 07:30		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:

Comments: LAVFJ-SAMP "Comments No dup d/t ISV. please recount on diff detector. LJL 052709"
LA4GX-SAMP "Comments No dup d/t ISV. Please recount on diff detector. LJL 052709 "

REDUCED VOLS D/T ISV. LJL 52709

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

LAVA01AA-SAMP Constituent List:

I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
LCRLP1AA-BLK:					
I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
LCRLP1AC-LCS:					
I-129	RDL:5	pCi/L	LCL:70	UCL:130	RPD:20

LAVA01AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LCRLP1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LCRLP1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

6/18/2009 9:52:41 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/18/2008, 6/23/2009, Batch: '9131509', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
9131509						
AC		**Rev1C**	**LaneL**	5/27/2009 2:53:28 PM		
SC			wagarr	IsBatched	5/12/2009 8:59:59 AM	ICOC_RADCALC v4.8.35
SC			LaneL	InPrep	5/27/2009 2:53:28 PM	RL-PRP-004 REVISION 0
SC			LaneL	Prep1C	5/27/2009 3:30:44 PM	RL-PRP-004 REVISION 0
SC			BostedD	Prep2C	6/12/2009 1:53:35 PM	RL-GAM-002 REVISION 0
SC			ClarkR	InCnt1	6/12/2009 1:56:49 PM	RL-CI-007 REVISION 0
SC			ClarkR	CalcC	6/17/2009 12:05:05 PM	RL-CI-007 REVISION 0
SC			nortonj	Rev1C	6/18/2009 9:52:31 AM	RL-DR-001 REV 0
AC			**LaneL**	5/27/2009 3:30:44 PM		
AC			**BostedD**	6/12/2009 1:53:35 PM		
AC			**ClarkR**	6/12/2009 1:56:49 PM		
AC			**ClarkR**	6/17/2009 12:05:05		
AC			**nortonj**	6/18/2009 9:52:31		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.36

TESTAMERICA

5/27/2009 1:08:17 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

BN I-129 Prp/Sep GAM002
TB Gamma by LEPD
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/19/2009 W05646

Sep1 DT/Tm Tech:

Batch: 9131510 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	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 LAVA4-1-AA J9D270148-2-SAMP 04/22/2009 14:16	AmtRec: 2X4LP,VIAL	500.00g,in	ITA8375 05/19/09	#Containers: 3	35.9	100	L5	2034	6/10/09	Scr: Alpha: 2.30E-03 uCi/Sa Beta: -1.17E-03 uCi/Sa
2 LAVA4-1-AC-X J9D270148-2-DUP 04/22/2009 14:16	AmtRec: 2X4LP,VIAL	500.10g,in	ITA8376 05/19/09	#Containers: 3	36.7		L4	0007		Scr: Alpha: 2.30E-03 uCi/Sa Beta: -1.17E-03 uCi/Sa
3 LCRLR-1-AA-B J9E110000-510-BLK 04/22/2009 14:16	AmtRec:	499.90g,in	ITA8377 05/19/09	#Containers: 1	35.7		L5	2231	6/10/09	Scr: Alpha: Beta:
4 LCRLR-1-AC-C J9E110000-510-LCS 04/22/2009 14:16	AmtRec:	500.00g,in	ISB0338 02/13/09	#Containers: 1	43.7		L5	0015		Scr: Alpha: Beta:

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Comments:

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

LAVA41AA-SAMP Constituent List:

I-129	RDL:5.00E+00	pCi/L	LCL:70	UCL:130	RPD:20
LCRLR1AA-BLK:					
I-129	RDL:5.00E+00	pCi/L	LCL:	UCL:	RPD:
LCRLR1AC-LCS:					
I-129	RDL:5	pCi/L	LCL:70	UCL:130	RPD:20

LAVA41AA-SAMP Calc Info:

5/27/2009 1:08:18 PM

Sample Preparation/Analysis

Balance Id:1120482733

BN I-129 Prp/Sep GAM002
TB Gamma by LEPD
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/19/2009

Sep1 DT/Tm Tech:

Batch: 9131510 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

LCRLR1AA-BLK:

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

LCRLR1AC-LCS:

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

Approved By _____ Date: _____

6/11/2009 12:10:52 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/11/2008, 6/16/2009, Batch: '9131510', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
9131510						
AC		**Rev1C**	**LaneL**	5/27/2009 1:01:33 PM		
SC			wagarr	IsBatched	5/12/2009 8:59:59 AM	ICOC_RADCALC v4.8.35
SC			LaneL	InPrep	5/27/2009 1:01:33 PM	RL-PRP-004 REVISION 0
SC			LaneL	Prep1C	5/27/2009 1:09:01 PM	RL-PRP-004 REVISION 0
SC			BostedD	Prep2C	6/10/2009 3:51:04 PM	RL-GAM-002 REVISION 0
SC			DAWKINSO	InCnt1	6/10/2009 6:57:52 PM	RL-CI-007 REVISION 0
SC			ClarkR	CalcC	6/11/2009 7:47:37 AM	RL-CI-007 REVISION 0
SC			nortonj	Rev1C	6/11/2009 12:10:49 PM	RL-DR-001 REV 0
AC			**LaneL**	5/27/2009 1:09:01 PM		
AC			**BostedD**	6/10/2009 3:51:04 PM		
AC			**DAWKINSO**	6/10/2009 6:57:52 PM		
AC			**ClarkR**	6/11/2009 7:47:37		
AC			**nortonj**	6/11/2009 12:10:49		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.36

TESTAMERICA

5/27/2009 7:42:26 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

AnalyDueDate: 06/19/2009 W05646

Sep1 DT/Tm Tech:

Batch: 9131515 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,LaneL

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 LA4GX-1-AF J9D300187-1-SAMP 04/28/2009 09:41		AmtRec: 5XLP,2X500MLP,2X4LP,VIAL #Containers: 10	125.00g,in	125.00g		60		Scr:	Alpha: 2.17E-03 uCi/Sa	Beta: -1.91E-03 uCi/Sa
2 LA4GX-1-AN-S J9D300187-1-MS 04/28/2009 09:41		AmtRec: 5XLP,2X500MLP,2X4LP,VIAL #Containers: 10	125.00g,in	125.00g	TCSG2299 12/03/08,pd 07/01/05,r			Scr:	Alpha: 2.17E-03 uCi/Sa	Beta: -1.91E-03 uCi/Sa
3 LA4GX-1-AP-X J9D300187-1-DUP 04/28/2009 09:41		AmtRec: 5XLP,2X500MLP,2X4LP,VIAL #Containers: 10	125.00g,in	125.00g				Scr:	Alpha: 2.17E-03 uCi/Sa	Beta: -1.91E-03 uCi/Sa
4 LCRMF-1-AA-B J9E110000-515-BLK 04/28/2009 09:41		AmtRec: #Containers: 1	125.10g,in	125.10g				Scr:	Alpha:	Beta:
5 LCRMF-1-AC-C J9E110000-515-LCS 04/28/2009 09:41		AmtRec: #Containers: 1	125.00g,in	125.00g	TCSE2292 09/30/08,pd 07/01/05,r			Scr:	Alpha:	Beta:
6 LCRMF-1-AD-BN J9E110000-515-IBLK 04/28/2009 09:41		AmtRec: #Containers: 1						Scr:	Alpha:	Beta:

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TESTAMERICA

5/27/2009 7:42:27 AM

Sample Preparation/Analysis

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

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

AnalyDueDate: 06/19/2009

Batch: 9131515 pCi/L
SEQ Batch, Test: None

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

Comments: PH < 2.0. [illegible] 5 27 09

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

LA4GX1AF-SAMP Constituent List:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
LA4GX1AN-MS Constituent List:

LCRMF1AA-BLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
LCRMF1AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
LCRMF1AD-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:

LA4GX1AF-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LA4GX1AN-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LCRMF1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LCRMF1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LCRMF1AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

6/15/2009 1:15:01 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/15/2008, 6/20/2009, Batch: '9131515', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
9131515						
AC		**Rev1C**	**LaneL**	5/27/2009 7:35:03		
SC			wagarr	IsBatched	5/12/2009 8:59:59 AM	ICOC_RADCALC v4.8.35
SC			LaneL	InPrep	5/27/2009 7:35:03 AM	RL-PRP-004 REVISION 0
SC			LaneL	Prep1C	5/27/2009 7:42:46 AM	RL-PRP-004 REVISION 0
SC			Barcotl	Sep1C	6/10/2009 12:46:55 PM	RL-LSC-014 REVISION 0
SC			BlackCL	InCnt1	6/10/2009 12:52:47 PM	RL-CI-005 REVISION 0
SC			BlackCL	CalcC	6/11/2009 5:11:13 AM	RL-CI-005 REVISION 0
SC			nortonj	Rev1C	6/15/2009 1:14:53 PM	RL-DR-001 REV 0
AC			**LaneL**	5/27/2009 7:42:46		
AC			**Barcotl**	6/10/2009 12:46:55		RL-GAM-001
AC			**BlackCL**	6/10/2009 12:52:47		
AC			**BlackCL**	6/11/2009 5:11:13		
AC			**nortonj**	6/15/2009 1:14:53 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.36

TESTAMERICA

5/12/2009 8:58:13 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

AnalyDueDate: 06/19/2009 WO56446

Batch: 9131521 WATER pCi/L PM, Quote: SS , 57671
SEQ Batch, Test: None

Balance Id: UA
Pipet #:
Sep1 DT/Tm Tech: 6-23-09 ow
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 LA4K4-1-AA J9D300195-1-SAMP 04/28/2009 09:23	AmtRec: 2XLP,VIAL	#Containers: 3				Scr:	Alpha: -3.94E-06 uCi/Sa	Beta: 1.70E-04 uCi/Sa
2 LA4K4-1-AC-X J9D300195-1-DUP 04/28/2009 09:23	AmtRec: 2XLP,VIAL	#Containers: 3				Scr:	Alpha: -3.94E-06 uCi/Sa	Beta: 1.70E-04 uCi/Sa
3 LCRM1-1-AA-B J9E110000-521-BLK 04/28/2009 09:23	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
4 LCRM1-1-AC-C J9E110000-521-LCS 04/28/2009 09:23	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
5 LCRM1-1-AD-BN J9E110000-521-IBLK 04/28/2009 09:23	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Comments:

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

LA4K41AA-SAMP Constituent List:
C-14 RDL:2.00E+02 pCi/L LCL:70 UCL:130 RPD:20

TestAmerica Key: In - Initial Amt, fl - Final Amt, dl - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 5
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added ICOC v4.8.35

TESTAMERICA

5/12/2009 8:58:14 AM

Sample Preparation/Analysis

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

Balance Id:

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

AnalyDueDate: 06/19/2009

Batch: 9131521 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:

```
LCRM11AA-BLK:
  C-14        RDL:2.00E+02    pCi/L    LCL:        UCL:        RPD:
LCRM11AC-LCS:
  C-14        RDL:200         pCi/L    LCL:70      UCL:130     RPD:20
LCRM11AD-IBLK:
  C-14        RDL:2.00E+02    pCi/L    LCL:        UCL:        RPD:
LA4K41AA-SAMP Calc Info:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
LCRM11AA-BLK:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
LCRM11AC-LCS:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
LCRM11AD-IBLK:
     Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

Approved By _____ Date: _____

145

6/25/2009 3:16:07 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/25/2008, 6/30/2009, Batch: '9131521', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
9131521						
AC		**Rev1C**	**McDowellD**	6/23/2009 10:11:43		
SC			wagarr	IsBatched	5/12/2009 8:59:59 AM	ICOC_RADCALC v4.8.35
SC			McDowellD	InSep1	6/23/2009 10:11:43 AM	RL-LSC-008 REVISION 0
SC			McDowellD	Sep1C	6/24/2009 3:28:51 PM	RL-LSC-008 REVISION 0
SC			ClarkR	InCnt1	6/24/2009 3:44:23 PM	RL-CI-005 REVISION 0
SC			BlackCL	CalcC	6/25/2009 7:11:42 AM	RL-CI-005 REVISION 0
SC			nortonj	Rev1C	6/25/2009 3:15:57 PM	RL-DR-001 REV 0
AC			**McDowellD**	6/24/2009 3:28:51 PM		
AC			**ClarkR**	6/24/2009 3:44:23 PM		
AC			**BlackCL**	6/25/2009 7:11:42		
AC			**nortonj**	6/25/2009 3:15:57 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 5

ICOCFractions v4.8.36

TESTAMERICA

5/27/2009 7:57:40 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AA Ni-63 Prp PRP004, Sep LSC017
S4 Nickel by ICP and Nickel-63 by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/19/2009 W05646

Sep1 DT/Tm Tech:

Batch: 9131520 WATER pCi/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,LaneL

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 LAVFL-1-AD J9D270162-2-SAMP 04/22/2009 13:10		AmtRec: 3X4LP,VIAL,LP	400.00g,in	400.00g #Containers: 5	NITA2712 05/13/09	100		Scr:	Alpha: 1.93E-03 uCi/Sa	Beta: -6.07E-04 uCi/Sa
2 LAVFL-1-AE-X J9D270162-2-DUP 04/22/2009 13:10		AmtRec: 3X4LP,VIAL,LP	400.10g,in	400.10g #Containers: 5	NITA2713 05/13/09			Scr:	Alpha: 1.93E-03 uCi/Sa	Beta: -6.07E-04 uCi/Sa
3 LCRMV-1-AA-B J9E110000-520-BLK 04/22/2009 13:10		AmtRec:	400.00g,in	400.00g #Containers: 1	NITA2714 05/13/09			Scr:	Alpha:	Beta:
4 LCRMV-1-AC-C J9E110000-520-LCS 04/22/2009 13:10		AmtRec:	400.00g,in	400.00g #Containers: 1	NISA0952 05/13/09			Scr:	Alpha:	Beta:
5 LCRMV-1-AD-BN J9E110000-520-IBLK 04/22/2009 13:10		AmtRec:		NITA 2714 #Containers: 1				Scr:	Alpha:	Beta:

Comments: PH<2.0. RJL 52709

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

LAVFL1AD-SAMP Constituent List:
Ni-63 RDL:15 pCi/L LCL:70 UCL:130 RPD:20

5/27/2009 7:57:41 AM

Sample Preparation/Analysis

AA Ni-63 Prp PRP004, Sep LSC017
S4 Nickel by ICP and Nickel-63 by Liquid Scint
5I CLIENT: HANFORD

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

AnalyDueDate: 06/19/2009

Batch: 9131520 pCi/L
SEQ Batch, Test: None

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

```
LCRMV1AA-BLK:
  Ni-63        RDL:15          pCi/L     LCL:        UCL:        RPD:
LCRMV1AC-LCS:
  Ni-63        RDL:15          pCi/L     LCL:70      UCL:130     RPD:20
LCRMV1AD-IBLK:
  Ni-63        RDL:15          pCi/L     LCL:        UCL:        RPD:
LAVFL1AD-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
LCRMV1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
LCRMV1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
LCRMV1AD-IBLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

6/11/2009 2:17:45 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/11/2008, 6/16/2009, Batch: '9131520', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
9131520						
AC		**Rev1C**	**LaneL**	5/27/2009 7:48:52		
SC			wagarr	IsBatched	5/12/2009 8:59:59 AM	ICOC_RADCALC v4.8.35
SC			LaneL	InPrep	5/27/2009 7:48:52 AM	RL-PRP-004 REVISION 0
SC			LaneL	Prep1C	5/27/2009 7:58:58 AM	RL-PRP-004 REVISION 0
SC			Barcotl	Sep1C	6/8/2009 2:11:08 PM	RL-LSC-017 REVISION 0
SC			ClarkR	InCnt1	6/8/2009 2:35:59 PM	RL-CI-005 REVISION 0
SC			BlackCL	CalcC	6/11/2009 5:11:46 AM	RL-CI-005 REVISION 0
SC			nortonj	Rev1C	6/11/2009 2:17:39 PM	RL-DR-001 REV 0
AC			**LaneL**	5/27/2009 7:58:58		
AC			**Barcotl**	6/8/2009 2:11:08 PM		
AC			**ClarkR**	6/8/2009 2:35:59 PM		
AC			**BlackCL**	6/11/2009 5:11:46		
AC			**nortonj**	6/11/2009 2:17:39 PM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt: 6

ICOCFractions v4.8.36

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

RE-COUNT REQUEST

DUE DATE 6-19

CUSTOMER PGW

ANALAYSIS U-NAT

MATRIX H_2O

LOT NUMBER J9D300187

SAMPLE DELIVERY GROUP W05646

OLD BATCH NUMBER 9131514

NEW BATCH NUMBER

LAB SAMPLE ID	CLIENT ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1) ALL		LOW REFERENCE RATIO
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

6/4/2009 7:39:29 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

DH UNat_Laser Prp KPA001
SS Total Uranium by KPA
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/19/2009

Sep1 DT/Tm Tech:

Batch: 9131514 WATER ug/L PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 9131509 BNTB, 9131512 AWTA, 9131513 6DSO, 9131514 DHSS, 9131515 FPS5, 9131517 AZS7, 9131518 BCS8,

Prep Tech: NortonJ,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 LA4GX-1-AG J9D300187-1-SAMP 04/28/2009 09:41		24.90g,in AmtRec: 5XLP,2X500MLP,2X4LP,VIAL #Containers: 10				Scr:	Alpha: 2.17E-03 uCi/Sa	Beta: -1.91E-03 uCi/Sa
2 LA4GX-1-AL-S J9D300187-1-MS 04/28/2009 09:41		25.10g,in AmtRec: 5XLP,2X500MLP,2X4LP,VIAL #Containers: 10	UNSF4618 05/11/09,pd 08/01/57 r			Scr:	Alpha: 2.17E-03 uCi/Sa	Beta: -1.91E-03 uCi/Sa
3 LA4GX-1-AM-X J9D300187-1-DUP 04/28/2009 09:41		25.00g,in AmtRec: 5XLP,2X500MLP,2X4LP,VIAL #Containers: 10				Scr:	Alpha: 2.17E-03 uCi/Sa	Beta: -1.91E-03 uCi/Sa
4 LA4GX-2-AG J9D300187-1-SAMP 04/28/2009 09:41		24.90g,in AmtRec: 5XLP,2X500MLP,2X4LP,VIAL #Containers: 10				Scr:	Alpha: 2.17E-03 uCi/Sa	Beta: -1.91E-03 uCi/Sa
5 LA4GX-2-AL-S J9D300187-1-MS 04/28/2009 09:41		25.10g,in AmtRec: 5XLP,2X500MLP,2X4LP,VIAL #Containers: 10	UNSF4618 05/11/09,pd 08/01/57 r			Scr:	Alpha: 2.17E-03 uCi/Sa	Beta: -1.91E-03 uCi/Sa
6 LA4GX-2-AM-X J9D300187-1-DUP 04/28/2009 09:41		25.00g,in AmtRec: 5XLP,2X500MLP,2X4LP,VIAL #Containers: 10				Scr:	Alpha: 2.17E-03 uCi/Sa	Beta: -1.91E-03 uCi/Sa
7 LCRMA-1-AA-B J9E110000-514-BLK 04/28/2009 09:41		25.00g,in AmtRec: #Containers: 1				Scr:	Alpha:	Beta:

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TESTAMERICA

6/4/2009 7:39:30 AM

Sample Preparation/Analysis

DH UNat_Laser Prp KPA001
SS Total Uranium by KPA
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

AnalyDueDate: 06/19/2009

Sep1 DT/Tm Tech:

Batch: 9131514 ug/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 LCRMA-1-AC-C J9E110000-514-LCS 04/28/2009 09:41		25.00g,in AmtRec:	UNSF4619 05/11/09,pd 08/01/57 r #Containers: 1			Scr:	Alpha:	Beta:
9 LCRMA-1-AD-C J9E110000-514-LCS 04/28/2009 09:41		25.10g,in AmtRec:	UNSC2895 01/02/09,pd 08/01/57 r #Containers: 1			Scr:	Alpha:	Beta:
10 LCRMA-2-AA-B J9E110000-514-BLK 04/28/2009 09:41		25.00g,in AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
11 LCRMA-2-AC-C J9E110000-514-LCS 04/28/2009 09:41		25.00g,in AmtRec:	UNSF4619 05/11/09,pd 08/01/57 r #Containers: 1			Scr:	Alpha:	Beta:
12 LCRMA-2-AD-C J9E110000-514-LCS 04/28/2009 09:41		25.10g,in AmtRec:	UNSC2895 01/02/09,pd 08/01/57 r #Containers: 1			Scr:	Alpha:	Beta:

Comments: LA4GX-SAMP "Comments No dup d/t ISV. Please recount on diff detector. LJL 052709 "

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

LA4GX1AG-SAMP Constituent List:

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Sample Preparation/Analysis

DH UNat_Laser Prp KPA001
SS Total Uranium by KPA
5I CLIENT: HANFORD

Balance Id:1120482733,na
Pipet #: _____
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: ,NortonJ

AnalyDueDate: 06/19/2009

Batch: 9131514 ug/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:

```
  Uranium      RDL:1.44E-01    ug/L      LCL:        UCL:        RPD:
LA4GX1AL-MS Constituent List:

LA4GX2AL-MS:

LCRMA1AA-BLK:
  Uranium      RDL:1.44E-01    ug/L      LCL:        UCL:        RPD:
LCRMA1AC-LCS:
  Uranium      RDL:0.144343    ug/L      LCL:70      UCL:130     RPD:20
LCRMA1AD-LCS:
  Uranium      RDL:0.144343    ug/L      LCL:70      UCL:130     RPD:20
LCRMA2AA-BLK:
  Uranium      RDL:0.144343    ug/L      LCL:        UCL:        RPD:
LCRMA2AC-LCS:
  Uranium      RDL:0.144343    ug/L      LCL:70      UCL:130     RPD:20
LCRMA2AD-LCS:
  Uranium      RDL:0.144343    ug/L      LCL:70      UCL:130     RPD:20
LA4GX1AG-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
LA4GX1AL-MS Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
LA4GX2AL-MS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
LCRMA1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
LCRMA1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
LCRMA1AD-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
LCRMA2AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
LCRMA2AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
LCRMA2AD-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

TESTAMERICA

6/9/2009 8:14:23 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/9/2008, 6/14/2009, Batch: '9131514', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
9131514						
AC		**Rev1C**	**LaneL**	5/27/2009 8:45:25		
SC			wagarr	IsBatched	5/12/2009 8:59:59 AM	ICOC_RADCALC v4.8.35
SC			LaneL	InPrep	5/27/2009 8:45:25 AM	RL-PRP-004 REVISION 0
SC			LaneL	Prep1C	5/27/2009 8:52:31 AM	RL-PRP-004 REVISION 0
SC			BockJ	InPrep2	5/27/2009 9:36:46 AM	RL-KPA-001 REVISION 0
SC			PettyDP	Cnt1C	6/3/2009 1:31:13 PM	RL-KPA-003 REVISION 0
SC			nortonj	Rev1C	6/9/2009 8:13:55 AM	RL-DR-001 REV 0
AC			**LaneL**	5/27/2009 8:52:31		
AC			**BockJ**	5/27/2009 9:36:46		
AC			**PettyDP**	6/3/2009 1:31:13 PM		
AC			**nortonj**	6/9/2009 8:13:55 AM		

AC: Accepting Entry; SC: Status Change

TestAmerica Richland

Richland Wa.

Grp Rec Cnt:5

ICOCFractions v4.8.36

TESTAMERICA

5/6/2009 8:33:25 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

AnalyDueDate: 06/19/2009

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

Batch: 9120541 **WATER** **mg/L** **PM, Quote: SS , 57671**
SEQ Batch, Test: None

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

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 LA4H8-1-AA								
J9D300188-1-SAMP								
04/28/2009 12:36		AmtRec: VIAL,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
2 LA4H8-1-AC-S								
J9D300188-1-MS								
04/28/2009 12:36		AmtRec: VIAL,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
3 LA4H8-1-AD-D								
J9D300188-1-MSD								
04/28/2009 12:36		AmtRec: VIAL,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
4 LA4H8-1-AE-X								
J9D300188-1-DUP								
04/28/2009 12:36		AmtRec: VIAL,500MLP	#Containers: 2			Scr:	Alpha:	Beta:
5 LA5J1-1-AA-B								
J9D300000-541-BLK								
04/28/2009 12:36		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 LA5J1-1-AC-C								
J9D300000-541-LCS								
04/28/2009 12:36		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

TESTAMERICA

5/6/2009 8:33:26 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: 06/19/2009

Batch: 9120541 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

LA4H81AA-SAMP Constituent List:
HEXCHROME RDL:0.0037 mg/L LCL:85 UCL:115 RPD:20
LA4H81AC-MS Constituent List:
HEXCHROME RDL:0.002 mg/L LCL:85 UCL:115 RPD:20
LA4H81AD-MSD:
HEXCHROME RDL:0.002 mg/L LCL:85 UCL:115 RPD:20
LA5J11AA-BLK:
HEXCHROME RDL:0.002 mg/L LCL: UCL: RPD:
LA5J11AC-LCS:
HEXCHROME RDL:0.002 mg/L LCL:85 UCL:115 RPD:20

LA4H81AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LA4H81AC-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LA4H81AD-MSD:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LA5J11AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LA5J11AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

TESTAMERICA

5/6/2009 8:33:13 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: 06/19/2009

Batch: 9120540 **WATER** **mg/L** **PM, Quote: SS , 57671**
SEQ Batch, Test: None All Tests: CLTL, 9120540 88EA,

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 LA43C-1-AA								
J9D300244-1-SAMP								
04/28/2009 09:23		AmtRec: 3XLP,500MLP,VIAL	#Containers: 5			Scr:	Alpha: 2.17E-04 uCi/Sa	Beta: 2.59E-04 uCi/Sa
2 LA43C-1-AD-S								
J9D300244-1-MS								
04/28/2009 09:23		AmtRec: 3XLP,500MLP,VIAL	#Containers: 5			Scr:	Alpha: 2.17E-04 uCi/Sa	Beta: 2.59E-04 uCi/Sa
3 LA43C-1-AE-D								
J9D300244-1-MSD								
04/28/2009 09:23		AmtRec: 3XLP,500MLP,VIAL	#Containers: 5			Scr:	Alpha: 2.17E-04 uCi/Sa	Beta: 2.59E-04 uCi/Sa
4 LA43C-1-AF-X								
J9D300244-1-DUP								
04/28/2009 09:23		AmtRec: 3XLP,500MLP,VIAL	#Containers: 5			Scr:	Alpha: 2.17E-04 uCi/Sa	Beta: 2.59E-04 uCi/Sa
5 LA5JW-1-AA-B								
J9D300000-540-BLK								
04/28/2009 09:23		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
6 LA5JW-1-AC-C								
J9D300000-540-LCS								
04/28/2009 09:23		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

TESTAMERICA

5/6/2009 8:33:14 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: 06/19/2009

Batch: 9120540 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

LA43C1AA-SAMP Constituent List:
HEXCHROME RDL:0.0037 mg/L LCL:85 UCL:115 RPD:20
LA43C1AD-MS Constituent List:
HEXCHROME RDL:0.002 mg/L LCL:85 UCL:115 RPD:20
LA43C1AE-MSD:
HEXCHROME RDL:0.002 mg/L LCL:85 UCL:115 RPD:20
LA5JW1AA-BLK:
HEXCHROME RDL:0.002 mg/L LCL: UCL: RPD:
LA5JW1AC-LCS:
HEXCHROME RDL:0.002 mg/L LCL:85 UCL:115 RPD:20

LA43C1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LA43C1AD-MS Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LA43C1AE-MSD:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LA5JW1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
LA5JW1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____