Analytical Data Package Prepared For

Pacific Northwest National Lab

Radiochemical Analysis By

STL Richland STLRL

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

Data Package Contains _____ Pages

Report Nbr: 31938

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W04873	I06-021	B1HHL0	J6B280376-1	H0DG01AA	9H0DG010	6071064
		B1HHL0	J6B280376-1	H0DG01AC	9H0DG010	6071065
		B1HHL0	J6B280376-1	H0DG01AD	9H0DG010	6071063
		B1HHK4	J6B280376-2	H0DH31AA	9H0DH310	6071064
		B1HHK4	J6B280376-2	H0DH31AC	9H0DH310	6071065
		B1HHK4	J6B280376-2	H0DH31AD	9H0DH310	6071063
		B1HHL2	J6B280376-3	H0DH61AA	9H0DH610	6071064
		B1HHL2	J6B280376-3	H0DH61AC	9H0DH610	6071065
		B1HHL2	J6B280376-3	H0DH61AD	9H0DH610	6071063
		B1HHL8	J6B280376-4	H0DH71AA	9H0DH710	6071064
		B1HHL8	J6B280376-4	H0DH71AC	9H0DH710	6071065
		B1HHL8	J6B280376-4	H0DH71AD	9H0DH710	6071063
		B1HHJ7	J6B280376-5	H0DH91AA	9H0DH910	6071057
		B1HHJ7	J6B280376-5	H0DH91AC	9H0DH910	6071064
		B1HHJ7	J6B280376-5	H0DH91AD	9H0DH910	6071065

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Report Nbr: 31938

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W04873	I06-021	B1HHJ7	J6B280376-5	H0DH91AE	9H0DH910	6071063
		B1HHM4	J6B280376-6	H0DJA1AA	9H0DJA10	6071057
		B1HHM4	J6B280376-6	H0DJA1AC	9H0DJA10	6071064
		B1HHM4	J6B280376-6	H0DJA1AD	9H0DJA10	6071065
		B1HHM4	J6B280376-6	H0DJA1AE	9H0DJA10	6071063
		B1HHP9	J6B280380-1	H0DJC1AA	9H0DJC10	6071057
		B1HHP9	J6B280380-1	H0DJC1AC	9H0DJC10	6071064
		B1HHP9	J6B280380-1	H0DJC1AD	9H0DJC10	6071065
		B1HHP9	J6B280380-1	H0DJC1AE	9H0DJC10	6071063
		B1HHR2	J6B280380-2	H0DJD1AA	9H0DJD10	6071057
		B1HHR2	J6B280380-2	H0DJD1AC	9H0DJD10	6071064
		B1HHP3	J6B280380-3	H0DJE1AA	9H0DJE10	6071057
		B1HHP3	J6B280380-3	H0DJE1AC	9H0DJE10	6071064
		B1HHP3	J6B280380-3	H0DJE1AD	9H0DJE10	6071063
		B1HK98	J6B280380-4	H0DJG1AA	9H0DJG10	6071064
		B1HK98	J6B280380-4	H0DJG1AC	9H0DJG10	6071065
		B1HK98	J6B280380-4	H0DJG1AD	9H0DJG10	6071063
	G06-003	B1HPF3	J6C060202-1	H0PLV1AA	9H0PLV10	6071057
		B1HPF3	J6C060202-1	H0PLV1AC	9H0PLV10	6071060
		B1HPF3	J6C060202-1	H0PLV1AD	9H0PLV10	6071061
		B1HPF3	J6C060202-1	H0PLV1AE	9H0PLV10	6071062
		B1HPF3	J6C060202-1	H0PLV1AF	9H0PLV10	6071058
		B1HPD5	J6C060202-2	H0PL21AC	9H0PL210	6071060
		B1HPD5	J6C060202-2	H0PL21AD	9H0PL210	6071061
		B1HPD5	J6C060202-2	H0PL21AE	9H0PL210	6071062
		B1HPD5	J6C060202-2	H0PL21AF	9H0PL210	6071058

Comments:

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SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W04873	G06-003	B1HPD5	J6C060202-2	H0PL21AG	9H0PL210	6071057
		B1HPJ6	J6C060202-3	H0PL31AA	9H0PL310	6071057
		B1HPJ6	J6C060202-3	H0PL31AC	9H0PL310	6071060
		B1HPJ6	J6C060202-3	H0PL31AD	9H0PL310	6071061
		B1HPJ6	J6C060202-3	H0PL31AE	9H0PL310	6071062
		B1HPJ6	J6C060202-3	H0PL31AF	9H0PL310	6071058
	I06-026	B1HPY5	J6C060207-1	H0PMD1AC	9H0PMD10	6071061
		B1HPY5	J6C060207-1	H0PMD1AD	9H0PMD10	6071058
		B1HPY5	J6C060207-1	H0PMD1AE	9H0PMD10	6071057
		B1HPY0	J6C060209-1	H0PMK1AC	9H0PMK10	6071061
		B1HPY0	J6C060209-1	H0PMK1AD	9H0PMK10	6071058
		B1HPY0	J6C060209-1	H0PMK1AE	9H0PMK10	6071057
		B1HR02	J6C060210-1	H0PMP1AA	9H0PMP10	6071061
		B1HR06	J6C060210-2	H0PMT1AC	9H0PMT10	6071061
		B1HR06	J6C060210-2	H0PMT1AD	9H0PMT10	6071059
		B1HR06	J6C060210-2	H0PMT1AE	9H0PMT10	6071058
		B1HR06	J6C060210-2	H0PMT1AF	9H0PMT10	6071057
	S06-003	B1HMF8	J6C060211-1	H0PM11AA	9H0PM110	6071057
		B1HMF8	J6C060211-1	H0PM11AC	9H0PM110	6071058
		B1HMF9	J6C060211-2	H0PM21AA	9H0PM210	6071057
		B1HMF9	J6C060211-2	H0PM21AC	9H0PM210	6071058
		B1HMJ0	J6C070360-1	H0R561AA	9H0R5610	6071058

Comments:

Certificate of Analysis

Pacific Northwest National Laboratories
Sigma V Building
Richland, WA 99352

April 20, 2006

Attention: Dot Stewart

SAF Number	:	G06-003, I06-0226, S06-003
Date SDG Closed	:	March 6, 2006
Number of Samples	:	Nineteen (19)
Sample Type	:	Water
SDG Number	:	W04873
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between February 28, 2006 and March 6, 2006, nineteen water samples were received at STL Richland (STLR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Pacific Northwest National Laboratories (PGW) specific IDs:

PGW ID#	STLR ID#	MATRIX	DATE OF RECEIPT
B1HHL0	H0DG0	WATER	2/28/06
B1HHK4	H0DH3	WATER	2/28/06
B1HHL2	H0DH6	WATER	2/28/06
B1HHJ7	HODH9	WATER	2/28/06
B1HHM4	H0DJA	WATER	2/28/06
B1HHP9	H0DJC	WATER	2/28/06
B1HHR2	H0DJD	WATER	2/28/06
B1HHP3	H0DJE	WATER	2/28/06
B1HK98	HODJG	WATER	2/28/06
B1HR06	H0PMT	WATER	3/1/06
B1HR02	HOPMP	WATER	3/1/06
B1HMF8	H0PM1	WATER	3/1/06
B1HMF9	HOPM2	WATER	3/1/06

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:
The LCS, batch blank, samples and sample duplicate (B1HPF3) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:
The achieved MDAs for samples B1HPF3 and B1HR02 are greater than the CRDL due to sample matrix effects; reduced volumes were analyzed based on an elevated screen results. The detected activities exceed the achieved MDAs. The LCS, batch blank, samples and sample duplicate (B1HPF3) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006
The LCS, batch blank, samples and sample duplicate (B1HMJ0) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec (LL) by method RICH-RC-5017:
The LCS, batch blank, samples and sample duplicate (B1HPD5) results are within contractual requirements.

Gamma Spec by method RICH-RC-5017
The LCS, batch blank, samples and sample duplicate (B1HR06) results are within contractual requirements.

Iodine-129 (LL) by method RICH-RC-5025
The LCS, batch blank, samples and sample duplicate (B1HK98) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by TEVA method RICH-RC-5065:
The LCS, batch blank, samples, sample duplicate (B1HHL0), and sample matrix spike (B1HHK4) results are within contractual requirements.

Tritium by method RICH-RC-5007:
The LCS, batch blank, samples and sample duplicate (B1HMF8) results are within contractual requirements.

Total Uranium

Total Uranium by method RICH-RC-5058:
The LCS, batch blank, samples, sample duplicate (B1HHP9), and sample matrix spike (B1HHP3) results are within contractual requirements.

Pacific Northwest National Laboratories
April 20, 2006

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:

Hans Carman
Project Manager

Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	**Isotope(s)**	**STL Richland's SOP number**
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr89/90	RICH-RC-5006
ASTM D2460	Total Radium	RICH-RC-5027
Standard Method 7500-U-C & ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007
NOTE:		
The Gross Alpha LCS is prepared with Am-241 (unless otherwise specified in the case narrative)		
The Gross Beta LCS is prepared with Sr/Y-90 (unless otherwise specified in the case narrative)		

Uncertainty Estimation

STL 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/vn), 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 STL Richland.
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 STL Richland "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 STL Richland 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.

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 31938 File Name: h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.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:
9H0DG010	B1HHL0		MW6-SBB-A1	I06-021	W04873					02/28/2006 10:19

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6071064	I-129L	15046-84-1	1.53E+00	pCi/L	3.6E-01	3.6E-01	U	6.10E-01	97.3	I129LL_SEP_LEPS	3.8075E+00	L	04/17/200 14:25	I
6071065	TC-99	14133-76-7	4.56E+02	pCi/L	1.3E+01	3.6E+01		1.05E+01	100.0	TC99_ETVDSK_LS	1.259E-01	L	04/11/200 00:06	I
6071063	Uranium	7440-61-1	2.06E+02	ug/L	2.4E+01	2.4E+01		7.08E-02		UTOT_KPA	2.96E-02	ML	04/18/200 11:18	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9H0DH310	B1HHK4		MW6-SBB-A1	I06-021	W04873					02/28/2006 11:36

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6071064	I-129L	15046-84-1	3.70E-01	pCi/L	2.5E-01	2.5E-01	U	4.08E-01	94.9	I129LL_SEP_LEPS	3.8577E+00	L	04/17/200 14:26	I
6071065	TC-99	14133-76-7	1.35E+03	pCi/L	2.0E+01	9.4E+01		1.01E+01	100.0	TC99_ETVDSK_LS	1.273E-01	L	04/11/200 02:11	I
6071063	Uranium	7440-61-1	3.73E+01	ug/L	4.4E+00	4.4E+00		7.15E-02		UTOT_KPA	2.93E-02	ML	04/18/200 11:22	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:
9H0DH610	B1HHL2		MW6-SBB-A1	I06-021	W04873					02/28/2006 08:42

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6071064	I-129L	15046-84-1	9.36E-01	pCi/L	2.7E-01	2.7E-01	U	4.94E-01	95.7	I129LL_SEP_LEPS	3.9312E+00	L	04/17/200 14:27	I
6071065	TC-99	14133-76-7	5.02E+02	pCi/L	1.3E+01	3.9E+01		1.06E+01	100.0	TC99_ETVDSK_LS	1.303E-01	L	04/11/200 04:16	I
6071063	Uranium	7440-61-1	8.11E+01	ug/L	9.6E+00	9.6E+00		6.99E-02		UTOT_KPA	3.00E-02	ML	04/18/200 11:24	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9H0DH710	B1HHL8		MW6-SBB-A1	I06-021	W04873					02/28/2006 09:23

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6071064	I-129L	15046-84-1	3.98E-01	pCi/L	1.9E-01	1.9E-01	U	3.82E-01	96.2	I129LL_SEP_LEPS	3.9117E+00	L	04/17/200 16:36	I
6071065	TC-99	14133-76-7	2.53E+03	pCi/L	2.8E+01	1.7E+02		1.02E+01	100.0	TC99_ETVDSK_LS	1.267E-01	L	04/11/200 05:18	I
6071063	Uranium	7440-61-1	3.83E+02	ug/L	4.5E+01	4.5E+01		8.03E-02		UTOT_KPA	2.61E-02	ML	04/18/200 11:29	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9H0DH910	B1HHJ7		MW6-SBB-A1	I06-021	W04873					02/28/2006 10:29

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6071057	H-3	10028-17-8	5.41E+02	pCi/L	1.6E+02	1.8E+02		3.31E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/28/200 04:35	I
6071064	I-129L	15046-84-1	5.84E-01	pCi/L	2.5E-01	2.5E-01		3.57E-01	95.7	I129LL_SEP_LEPS	3.931E+00	L	04/17/200 16:38	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.

6071065	TC-99	14133-76-7	8.49E+02	pCi/L	1.7E+01	6.1E+01		1.02E+01	100.0	TC99_ETVDSK_LS	1.277E-01	L	04/11/200	06:21	I
6071063	Uranium	7440-61-1	1.41E+02	ug/L	1.7E+01	1.7E+01		7.68E-02		UTOT_KPA	2.73E-02	ML	04/18/200	11:35	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:
9H0DJA10	B1HHM4		MW6-SBB-A1	I06-021	W04873					02/28/2006 11:42

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
6071057	H-3	10028-17-8	1.60E+02	pCi/L	1.4E+02	1.6E+02	U	3.33E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/28/200	05:57	I
6071064	I-129L	15046-84-1	3.84E-01	pCi/L	3.3E-01	3.3E-01	U	4.46E-01	96.2	I129LL_SEP_LEPS	3.7051E+00	L	04/17/200	16:41	I
6071065	TC-99	14133-76-7	3.16E+02	pCi/L	1.1E+01	2.6E+01		1.02E+01	100.0	TC99_ETVDSK_LS	1.272E-01	L	04/11/200	07:23	I
6071063	Uranium	7440-61-1	2.64E+02	ug/L	3.1E+01	3.1E+01		7.85E-02		UTOT_KPA	2.67E-02	ML	04/18/200	11:39	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9H0DJC10	B1HHP9		MW6-SBB-A1	I06-021	W04873					02/28/2006 12:28

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
6071057	H-3	10028-17-8	9.68E+03	pCi/L	3.5E+02	5.6E+02		3.31E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/28/200	07:19	I
6071064	I-129L	15046-84-1	7.78E-01	pCi/L	3.0E-01	3.0E-01	U	4.44E-01	94.6	I129LL_SEP_LEPS	3.8963E+00	L	04/17/200	18:24	I
6071065	TC-99	14133-76-7	1.03E+03	pCi/L	1.8E+01	7.3E+01		1.06E+01	100.0	TC99_ETVDSK_LS	1.254E-01	L	04/11/200	08:25	I
6071063	Uranium	7440-61-1	2.60E+00	ug/L	2.7E-01	2.7E-01		7.38E-02		UTOT_KPA	2.84E-02	ML	04/18/200	11:42	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:
9H0DJD10	B1HHR2		MW6-SBB-A1	I06-021	W04873					02/28/2006 09:44

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
6071057	H-3	10028-17-8	1.71E+04	pCi/L	4.5E+02	8.6E+02		3.31E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/28/200	08:40	I
6071064	I-129L	15046-84-1	1.41E-02	pCi/L	1.7E-01	1.7E-01	U	3.17E-01	97.3	I129LL_SEP_LEPS	3.9144E+00	L	04/17/200	18:25	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:
9H0DJE10	B1HHP3		MW6-SBB-A1	I06-021	W04873					02/28/2006 08:57

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
6071057	H-3	10028-17-8	3.50E+02	pCi/L	1.5E+02	1.7E+02		3.34E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/28/200	10:02	I
6071064	I-129L	15046-84-1	-3.82E-02	pCi/L	1.0E-01	1.0E-01	U	1.84E-01	98.6	I129LL_SEP_LEPS	3.9285E+00	L	04/17/200	18:25	I
6071063	Uranium	7440-61-1	1.79E+00	ug/L	1.8E-01	1.8E-01		6.78E-02		UTOT_KPA	3.09E-02	ML	04/18/200	11:47	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:
9H0DJG10	B1HK98		MW6-SBB-A1	I06-021	W04873					02/28/2006 11:07

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

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 31938 File Name: h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6071064	I-129L	15046-84-1	-3.38E-02	pCi/L	1.1E-01	1.1E-01	U	1.90E-01	97.3	I129LL_SEP_LEPS	3.9071E+00	L	04/17/200 20:14	I
6071065	TC-99	14133-76-7	7.25E-01	pCi/L	4.3E+00	6.0E+00	U	1.02E+01	100.0	TC99_ETVDSK_LS	1.26E-01	L	04/11/200 09:28	I
6071063	Uranium	7440-61-1	9.12E-01	ug/L	9.4E-02	9.4E-02		7.85E-02		UTOT_KPA	2.67E-02	ML	04/18/200 11:51	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9H0PL210	B1HPD5		MW6-SBB-A1	G06-003	W04873					03/01/2006 12:17

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6071057	H-3	10028-17-8	1.30E+04	pCi/L	4.0E+02	7.0E+02		3.33E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/28/200 12:45	I
6071060	ALPHA	12587-46-1	3.62E-01	pCi/L	6.7E-01	6.8E-01	U	1.47E+00	100.0	9310_ALPHABETA	1.645E-01	L	04/18/200 16:35	I
6071061	BETA	12587-47-2	5.97E+02	pCi/L	1.1E+01	7.7E+01		2.81E+00	100.0	9310_ALPHABETA	1.98E-01	L	04/18/200 16:00	I
6071062	BE-7	13966-02-4	1.59E+01	pCi/L	2.6E+01	2.6E+01	U	5.10E+01		GAMMALL_GS	2.052E+00	L	04/13/200 18:56	I
6071062	CO-60	10198-40-0	6.25E-01	pCi/L	2.8E+00	2.8E+00	U	5.48E+00		GAMMALL_GS	2.052E+00	L	04/13/200 18:56	I
6071062	CS-134	13967-70-9	-4.46E-01	pCi/L	1.8E+00	1.8E+00	U	3.33E+00		GAMMALL_GS	2.052E+00	L	04/13/200 18:56	I
6071062	CS-137	10045-97-3	7.04E-01	pCi/L	1.8E+00	1.8E+00	U	3.54E+00		GAMMALL_GS	2.052E+00	L	04/13/200 18:56	I
6071062	EU-152	14683-23-9	6.55E+00	pCi/L	5.2E+00	5.2E+00	U	1.03E+01		GAMMALL_GS	2.052E+00	L	04/13/200 18:56	I
6071062	EU-154	15585-10-1	5.30E+00	pCi/L	5.6E+00	5.6E+00	U	1.30E+01		GAMMALL_GS	2.052E+00	L	04/13/200 18:56	I
6071062	EU-155	14391-16-3	-2.08E+00	pCi/L	5.7E+00	5.7E+00	U	9.81E+00		GAMMALL_GS	2.052E+00	L	04/13/200 18:56	I
6071062	K-40	13966-00-2	-7.30E+00	pCi/L	4.0E+01	4.0E+01	U	8.08E+01		GAMMALL_GS	2.052E+00	L	04/13/200 18:56	I
6071062	RU-106	13967-48-1	1.16E+01	pCi/L	1.9E+01	1.9E+01	U	3.67E+01		GAMMALL_GS	2.052E+00	L	04/13/200 18:56	I
6071062	SB-125	14234-35-6	-2.56E+00	pCi/L	4.9E+00	4.9E+00	U	8.40E+00		GAMMALL_GS	2.052E+00	L	04/13/200 18:56	I
6071058	SR-90	10098-97-2	3.75E+02	pCi/L	3.8E+00	5.7E+01		3.24E-01	81.9	SRISO_SEP_PRE	9.999E-01	L	04/19/200 06:50	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9H0PL310	B1HPJ6		MW6-SBB-A1	G06-003	W04873					03/01/2006 11:53

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6071057	H-3	10028-17-8	1.48E+04	pCi/L	4.2E+02	7.7E+02		3.32E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/28/200 14:07	I
6071060	ALPHA	12587-46-1	1.76E+00	pCi/L	1.5E+00	1.6E+00	U	2.19E+00	100.0	9310_ALPHABETA	1.469E-01	L	04/18/200 16:35	I
6071061	BETA	12587-47-2	6.60E+02	pCi/L	1.2E+01	8.5E+01		2.60E+00	100.0	9310_ALPHABETA	1.981E-01	L	04/18/200 16:00	I
6071062	BE-7	13966-02-4	1.48E+01	pCi/L	2.7E+01	2.7E+01	U	5.10E+01		GAMMALL_GS	1.9967E+00	L	04/13/200 18:58	I
6071062	CO-60	10198-40-0	9.93E-01	pCi/L	2.6E+00	2.6E+00	U	5.13E+00		GAMMALL_GS	1.9967E+00	L	04/13/200 18:58	I
6071062	CS-134	13967-70-9	-6.32E-01	pCi/L	2.2E+00	2.2E+00	U	3.75E+00		GAMMALL_GS	1.9967E+00	L	04/13/200 18:58	I
6071062	CS-137	10045-97-3	-1.02E+00	pCi/L	2.0E+00	2.0E+00	U	3.36E+00		GAMMALL_GS	1.9967E+00	L	04/13/200 18:58	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.

6071062	EU-152	14683-23-9	1.58E+00	pCi/L	5.5E+00	5.5E+00	U	9.85E+00		GAMMALL_GS	1.9967E+00	L	04/13/200	18:58	I
6071062	EU-154	15585-10-1	-4.52E+00	pCi/L	6.9E+00	6.9E+00	U	1.16E+01		GAMMALL_GS	1.9967E+00	L	04/13/200	18:58	I
6071062	EU-155	14391-16-3	2.32E+00	pCi/L	5.9E+00	5.9E+00	U	1.05E+01		GAMMALL_GS	1.9967E+00	L	04/13/200	18:58	I
6071062	K-40	13966-00-2	-8.87E+01	pCi/L	6.4E+01	6.4E+01	U	1.37E+02		GAMMALL_GS	1.9967E+00	L	04/13/200	18:58	I
6071062	RU-106	13967-48-1	-3.37E+00	pCi/L	1.9E+01	1.9E+01	U	3.46E+01		GAMMALL_GS	1.9967E+00	L	04/13/200	18:58	I
6071062	SB-125	14234-35-6	-5.90E-01	pCi/L	5.1E+00	5.1E+00	U	9.10E+00		GAMMALL_GS	1.9967E+00	L	04/13/200	18:58	I
6071058	SR-90	10098-97-2	3.65E+02	pCi/L	3.9E+00	5.6E+01		3.72E-01	76.6	SRISO_SEP_PRE	1.0008E+00	L	04/19/200	06:50	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9H0PLV10	B1HPF3		MW6-SBB-A1	G06-003	W04873					03/01/2006 10:42

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6071057	H-3	10028-17-8	2.11E+04	pCi/L	5.0E+02	1.0E+03		3.33E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/28/200 11:24	I
6071060	ALPHA	12587-46-1	1.00E+00	pCi/L	1.2E+00	1.2E+00	U	2.17E+00	100.0	9310_ALPHABETA	1.003E-01	L	04/18/200 15:31	I
6071061	BETA	12587-47-2	4.61E+03	pCi/L	5.8E+01	9.0E+02		9.25E+00	100.0	9310_ALPHABETA	5.17E-02	L	04/18/200 16:00	I
6071062	BE-7	13966-02-4	1.32E+01	pCi/L	2.0E+01	2.0E+01	U	3.85E+01		GAMMALL_GS	2.0024E+00	L	04/13/200 18:56	I
6071062	CO-60	10198-40-0	5.12E-01	pCi/L	1.6E+00	1.6E+00	U	3.25E+00		GAMMALL_GS	2.0024E+00	L	04/13/200 18:56	I
6071062	CS-134	13967-70-9	2.72E-01	pCi/L	1.6E+00	1.6E+00	U	3.13E+00		GAMMALL_GS	2.0024E+00	L	04/13/200 18:56	I
6071062	CS-137	10045-97-3	1.66E-01	pCi/L	1.6E+00	1.6E+00	U	2.90E+00		GAMMALL_GS	2.0024E+00	L	04/13/200 18:56	I
6071062	EU-152	14683-23-9	5.18E+00	pCi/L	4.5E+00	4.5E+00	U	8.58E+00		GAMMALL_GS	2.0024E+00	L	04/13/200 18:56	I
6071062	EU-154	15585-10-1	7.17E-01	pCi/L	5.1E+00	5.1E+00	U	9.94E+00		GAMMALL_GS	2.0024E+00	L	04/13/200 18:56	I
6071062	EU-155	14391-16-3	1.63E+00	pCi/L	4.1E+00	4.1E+00	U	7.48E+00		GAMMALL_GS	2.0024E+00	L	04/13/200 18:56	I
6071062	K-40	13966-00-2	1.70E+01	pCi/L	3.8E+01	3.8E+01	U	3.38E+01		GAMMALL_GS	2.0024E+00	L	04/13/200 18:56	I
6071062	RU-106	13967-48-1	-1.27E+01	pCi/L	1.5E+01	1.5E+01	U	2.41E+01		GAMMALL_GS	2.0024E+00	L	04/13/200 18:56	I
6071062	SB-125	14234-35-6	8.12E-01	pCi/L	3.7E+00	3.7E+00	U	6.99E+00		GAMMALL_GS	2.0024E+00	L	04/13/200 18:56	I
6071058	SR-90	10098-97-2	3.11E+03	pCi/L	2.0E+01	4.7E+02		9.25E-01	78.1	SRISO_SEP_PRE	5.878E-01	L	04/19/200 08:11	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9H0PM110	B1HMF8		MW6-SBB-A1	S06-003	W04873					03/01/2006 12:32

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6071057	H-3	10028-17-8	4.19E+03	pCi/L	2.5E+02	3.3E+02		3.34E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/28/200 23:40	I
6071058	SR-90	10098-97-2	9.28E+02	pCi/L	7.0E+00	1.3E+02		4.80E-01	57.0	SRISO_SEP_PRE	1.0035E+00	L	04/19/200 06:45	I

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

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

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9H0PM210	B1HMF9		MW6-SBB-A1	S06-003	W04873					03/01/2006 12:32

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6071057	H-3	10028-17-8	3.80E+03	pCi/L	2.5E+02	3.2E+02		3.35E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/29/200 02:23	I
6071058	SR-90	10098-97-2	8.31E+02	pCi/L	6.1E+00	1.2E+02		4.17E-01	65.8	SRISO_SEP_PRE	1.0085E+00	L	04/19/200 06:45	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:
9H0PMD10	B1HPY5		MW6-SBB-A1	I06-026	W04873					03/01/2006 10:01

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6071057	H-3	10028-17-8	2.59E+04	pCi/L	5.5E+02	1.2E+03		3.32E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/28/200 19:34	I
6071061	BETA	12587-47-2	1.70E+03	pCi/L	1.8E+01	2.6E+02		2.59E+00	100.0	9310_ALPHABETA	2.027E-01	L	04/18/200 16:00	I
6071058	SR-90	10098-97-2	9.79E+02	pCi/L	6.0E+00	1.4E+02		3.37E-01	85.3	SRISO_SEP_PRE	1.0004E+00	L	04/19/200 06:50	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9H0PMK10	B1HPY0		MW6-SBB-A1	I06-026	W04873					03/01/2006 12:20

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6071057	H-3	10028-17-8	1.16E+02	pCi/L	1.4E+02	1.6E+02	U	3.35E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/28/200 20:56	I
6071061	BETA	12587-47-2	1.64E+03	pCi/L	1.9E+01	2.6E+02		2.66E+00	100.0	9310_ALPHABETA	2.048E-01	L	04/18/200 16:00	I
6071058	SR-90	10098-97-2	8.57E+02	pCi/L	5.9E+00	1.3E+02		3.71E-01	75.3	SRISO_SEP_PRE	1.01E+00	L	04/19/200 06:50	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9H0PMP10	B1HR02		MW6-SBB-A1	I06-026	W04873					03/01/2006 12:32

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6071061	BETA	12587-47-2	1.63E+03	pCi/L	2.9E+01	2.2E+02		6.63E+00	100.0	9310_ALPHABETA	8.45E-02	L	04/18/200 16:00	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:
9H0PMT10	B1HR06		MW6-SBB-A1	I06-026	W04873					03/01/2006 10:46

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
6071057	H-3	10028-17-8	2.57E+04	pCi/L	5.5E+02	1.2E+03		3.34E+02	100.0	906.0_H3_LSC	5.00E-03	L	03/28/200 22:18	I
6071061	BETA	12587-47-2	9.55E+00	pCi/L	1.8E+00	2.4E+00		2.51E+00	100.0	9310_ALPHABETA	1.984E-01	L	04/18/200 16:00	I
6071059	BE-7	13966-02-4	1.30E+01	pCi/L	3.7E+01	3.7E+01	U	6.70E+01		GAMMA_GS	1.4992E+00	L	04/13/200 17:08	I
6071059	CO-60	10198-40-0	8.86E-01	pCi/L	3.6E+00	3.6E+00	U	6.89E+00		GAMMA_GS	1.4992E+00	L	04/13/200 17:08	I
6071059	CS-134	13967-70-9	6.27E-01	pCi/L	3.5E+00	3.5E+00	U	6.26E+00		GAMMA_GS	1.4992E+00	L	04/13/200 17:08	I
6071059	CS-137	10045-97-3	-5.70E-01	pCi/L	2.6E+00	2.6E+00	U	4.68E+00		GAMMA_GS	1.4992E+00	L	04/13/200 17:08	I
6071059	EU-152	14683-23-9	8.26E+00	pCi/L	8.2E+00	8.2E+00	U	1.42E+01		GAMMA_GS	1.4992E+00	L	04/13/200 17:08	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.

6071059	EU-154	15585-10-1	-2.05E+00	pCi/L	9.6E+00	9.6E+00	U	1.72E+01		GAMMA_GS	1.4992E+00	L	04/13/200	17:08	I
6071059	EU-155	14391-16-3	6.87E-01	pCi/L	7.4E+00	7.4E+00	U	1.30E+01		GAMMA_GS	1.4992E+00	L	04/13/200	17:08	I
6071059	K-40	13966-00-2	1.05E+01	pCi/L	9.2E+01	9.2E+01	U	2.02E+02		GAMMA_GS	1.4992E+00	L	04/13/200	17:08	I
6071059	RU-106	13967-48-1	-1.65E+01	pCi/L	2.5E+01	2.5E+01	U	4.26E+01		GAMMA_GS	1.4992E+00	L	04/13/200	17:08	I
6071059	SB-125	14234-35-6	5.43E+00	pCi/L	7.3E+00	7.3E+00	U	1.38E+01		GAMMA_GS	1.4992E+00	L	04/13/200	17:08	I
6071058	SR-90	10098-97-2	2.08E-01	pCi/L	1.6E-01	1.7E-01	U	3.34E-01	81.4	SRISO_SEP_PRE	9.983E-01	L	04/19/200	06:45	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:
9H0R5610	B1HMJ0		MW6-SBB-A1	S06-003	W04873					03/06/2006 11:17

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time		Act
6071058	SR-90	10098-97-2	2.13E+02	pCi/L	3.2E+00	3.1E+01		4.19E-01	65.1	SRISO_SEP_PRE	1.0108E+00	L	04/19/200	06:45	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.

STL Richland Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id: H05FX1HN **Sdg/Rept Nbr:** W04873 31938 **Collection Date:** 03/01/2006 12:32

Client Id: INTRA-LAB BL **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** **Received Date:** 03/01/2006

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
6071057	H-3	1.73E+03	pCi/L	1.5E+02			100.0		906.0_H3_LSC	5.00E-03	03/28/2006				D
	10028-17-8			1.4E+02						L	15:29				

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

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id:	H05F01AB	**Sdg/Rept Nbr:**	W04873 31938	**Collection Date:**	03/06/2006 11:17
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	03/06/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6071058	SR-90	2.82E-02	pCi/L	2.1E-01	U	4.85E-01	60.8		SRISO_SEP_P	1.0022E+00	04/19/2006				D
BLK	10098-97-2			2.1E-01						L	06:45				

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

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id: H05F11AB **Sdg/Rept Nbr:** W04873 31938 **Collection Date:** 03/01/2006 10:46

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

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 03/01/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6071059	BE-7	-5.46E+00	pCi/L	3.6E+01	U	6.49E+01			GAMMA_GS	1.5041E+00	04/13/2006				D
BLK	13966-02-4			3.6E+01						L	17:09				
6071059	CO-60	1.92E-01	pCi/L	2.1E+00	U	4.50E+00			GAMMA_GS	1.5041E+00	04/13/2006				D
BLK	10198-40-0			2.1E+00						L	17:09				
6071059	CS-134	7.11E-01	pCi/L	2.5E+00	U	5.09E+00			GAMMA_GS	1.5041E+00	04/13/2006				D
BLK	13967-70-9			2.5E+00						L	17:09				
6071059	CS-137	-2.15E+00	pCi/L	3.2E+00	U	5.25E+00			GAMMA_GS	1.5041E+00	04/13/2006				D
BLK	10045-97-3			3.2E+00						L	17:09				
6071059	EU-152	4.43E+00	pCi/L	7.3E+00	U	1.37E+01			GAMMA_GS	1.5041E+00	04/13/2006				D
BLK	14683-23-9			7.3E+00						L	17:09				
6071059	EU-154	-5.76E+00	pCi/L	8.6E+00	U	1.43E+01			GAMMA_GS	1.5041E+00	04/13/2006				D
BLK	15585-10-1			8.6E+00						L	17:09				
6071059	EU-155	-5.58E-02	pCi/L	7.7E+00	U	1.37E+01			GAMMA_GS	1.5041E+00	04/13/2006				D
BLK	14391-16-3			7.7E+00						L	17:09				
6071059	K-40	-1.50E+01	pCi/L	4.7E+01	U	9.76E+01			GAMMA_GS	1.5041E+00	04/13/2006				D
BLK	13966-00-2			4.7E+01						L	17:09				
6071059	RU-106	1.81E+01	pCi/L	2.6E+01	U	5.19E+01			GAMMA_GS	1.5041E+00	04/13/2006				D
BLK	13967-48-1			2.6E+01						L	17:09				
6071059	SB-125	7.15E+00	pCi/L	7.0E+00	U	1.41E+01			GAMMA_GS	1.5041E+00	04/13/2006				D
BLK	14234-35-6			7.0E+00						L	17:09				

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

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id:	H05F21AB	**Sdg/Rept Nbr:**	W04873 31938	**Collection Date:**	03/01/2006 10:42
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	03/01/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6071060	ALPHA	1.76E-01	pCi/L	4.3E-01	U	1.01E+00	100.0		9310_ALPHAB	2.105E-01	04/18/2006				D
BLK	12587-46-1			4.3E-01						L	16:35				

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

Thursday, April 20, 2006

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id:	H05F31AB	**Sdg/Rept Nbr:**	W04873 31938	**Collection Date:**	03/01/2006 10:42
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	03/01/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6071061	BETA	2.05E+00	pCi/L	1.4E+00	U	2.66E+00	100.0		9310_ALPHAB	1.982E-01	04/18/2006				D
BLK	12587-47-2			1.4E+00						L	16:00				

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.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id: H05F41AB **Sdg/Rept Nbr:** W04873 31938 **Collection Date:** 03/01/2006 12:17
Client Id: NA **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** BLK **Received Date:** 03/01/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6071062	BE-7	1.25E+01	pCi/L	1.9E+01	U	3.78E+01			GAMMALL_GS	2.0012E+00	04/13/2006				D
BLK	13966-02-4			1.9E+01						L	21:24				
6071062	CO-60	-1.21E+00	pCi/L	1.7E+00	U	2.80E+00			GAMMALL_GS	2.0012E+00	04/13/2006				D
BLK	10198-40-0			1.7E+00						L	21:24				
6071062	CS-134	-1.92E-01	pCi/L	1.3E+00	U	2.55E+00			GAMMALL_GS	2.0012E+00	04/13/2006				D
BLK	13967-70-9			1.3E+00						L	21:24				
6071062	CS-137	6.79E-01	pCi/L	1.7E+00	U	3.23E+00			GAMMALL_GS	2.0012E+00	04/13/2006				D
BLK	10045-97-3			1.7E+00						L	21:24				
6071062	EU-152	8.71E-01	pCi/L	4.0E+00	U	7.27E+00			GAMMALL_GS	2.0012E+00	04/13/2006				D
BLK	14683-23-9			4.0E+00						L	21:24				
6071062	EU-154	4.68E-01	pCi/L	3.6E+00	U	7.53E+00			GAMMALL_GS	2.0012E+00	04/13/2006				D
BLK	15585-10-1			3.6E+00						L	21:24				
6071062	EU-155	7.13E-03	pCi/L	3.0E+00	U	5.47E+00			GAMMALL_GS	2.0012E+00	04/13/2006				D
BLK	14391-16-3			3.0E+00						L	21:24				
6071062	K-40	-7.24E+00	pCi/L	3.2E+01	U	7.00E+01			GAMMALL_GS	2.0012E+00	04/13/2006				D
BLK	13966-00-2			3.2E+01						L	21:24				
6071062	RU-106	-6.52E+00	pCi/L	1.4E+01	U	2.43E+01			GAMMALL_GS	2.0012E+00	04/13/2006				D
BLK	13967-48-1			1.4E+01						L	21:24				
6071062	SB-125	-1.26E+00	pCi/L	3.4E+00	U	6.04E+00			GAMMALL_GS	2.0012E+00	04/13/2006				D
BLK	14234-35-6			3.4E+00						L	21:24				

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

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id:	H05F51AB	**Sdg/Rept Nbr:**	W04873	31938	**Collection Date:** 02/28/2006 12:28
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**BLK**		**Received Date:** 02/28/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6071063	Uranium	8.89E-03	ug/L	1.1E-03	U	7.91E-02			UTOT_KPA	2.65E-02	04/18/2006				D
BLK	7440-61-1			1.1E-03						ML	11:06				

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.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id:	H05F61AB	**Sdg/Rept Nbr:**	W04873	31938	**Collection Date:** 02/28/2006 11:07
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 02/28/2006

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
6071064	I-129L	-9.40E-02	pCi/L	9.9E-02	U	1.56E-01	97.0		I129LL_SEP_L	4.0002E+00	04/17/2006				D
BLK	15046-84-1			9.9E-02						L	20:16				

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.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id:	H05F71AB	**Sdg/Rept Nbr:**	W04873 31938	**Collection Date:**	02/28/2006 10:19
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	02/28/2006

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
6071065	TC-99	-3.50E+00	pCi/L	5.7E+00	U	1.02E+01	100.0		TC99_ETVDSK	1.276E-01	04/11/2006				D
BLK	14133-76-7			4.1E+00						L	10:31				

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.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id: H05FX1AB
Client Id: NA
Moisture/Solids%*:

Sdg/Rept Nbr: W04873 31938
Matrix: WATER WATER
QC Type: BLK

Collection Date: 03/01/2006 12:32
Sample On Date:
Received Date: 03/01/2006

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
6071057	H-3	2.39E+01	pCi/L	1.5E+02	U	3.33E+02	100.0		906.0_H3_LSC	5.00E-03	03/28/2006				D
BLK	10028-17-8			1.4E+02						L	01:52				

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.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id:	H05FX1DX	**Sdg/Rept Nbr:**	W04873 31938	**Collection Date:**	03/01/2006 12:32
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BLK	**Received Date:**	03/01/2006

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
6071057	H-3	-1.57E+02	pCi/L	1.5E+02	U	3.35E+02	100.0		906.0_H3_LSC	5.00E-03	03/28/2006				D
BLK	10028-17-8			1.3E+02						L	16:51				

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.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id: H05F01CS **Sdg/Rept Nbr:** W04873 31938 **Collection Date:** 03/06/2006 11:17
Client Id: NA **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** BS **Received Date:** 03/06/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6071058	SR-90	1.45E+01	pCi/L	2.3E+00		4.34E-01	67.6	1.38E+01	SRISO_SEP_P	1.0041E+00	04/19/2006			70	D
BS	10098-97-2			8.4E-01				105.1		L	06:45			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.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id: H05F11CS **Sdg/Rept Nbr:** W04873 31938 **Collection Date:** 03/01/2006 10:46

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 03/01/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6071059	CO-60	5.53E+01	pCi/L	1.1E+01		3.38E+00		5.03E+01	GAMMA_GS	1.5022E+00	04/13/2006			75	D
BS	10198-40-0			1.1E+01				109.9		L	17:10			125	
6071059	CS-137	3.38E+01	pCi/L	7.7E+00		4.49E+00		3.33E+01	GAMMA_GS	1.5022E+00	04/13/2006			70	D
BS	10045-97-3			7.7E+00				101.4		L	17:10			130	
6071059	EU-152	1.01E+02	pCi/L	2.2E+01		1.09E+01		1.02E+02	GAMMA_GS	1.5022E+00	04/13/2006			70	D
BS	14683-23-9			2.2E+01				99.2		L	17:10			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.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id: H05F21CS **Sdg/Rept Nbr:** W04873 31938 **Collection Date:** 03/01/2006 10:42

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

Moisture/Solids%*: **QC Type:** BS **Received Date:** 03/01/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6071060	ALPHA	1.73E+01	pCi/L	4.5E+00		9.37E-01	100.0	2.32E+01	9310_ALPHAB	1.998E-01	04/18/2006			70	D
BS	12587-46-1			2.9E+00				74.6		L	16:35			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.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id: H05F31CS **Sdg/Rept Nbr:** W04873 31938 **Collection Date:** 03/01/2006 10:42
Client Id: NA **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** BS **Received Date:** 03/01/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6071061	BETA	1.91E+01	pCi/L	3.3E+00		2.52E+00	100.0	2.31E+01	9310_ALPHAB	2.048E-01	04/18/2006			70	D
BS	12587-47-2			2.3E+00				82.5		L	16:00			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.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id: H05F41CS **Sdg/Rept Nbr:** W04873 31938 **Collection Date:** 03/01/2006 12:17
Client Id: NA **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** BS **Received Date:** 03/01/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6071062	BE-7	-7.56E+00	pCi/L	1.6E+01	U	2.76E+01			GAMMALL_GS	2.0062E+00	04/13/2006				D
BS	13966-02-4			1.6E+01						L	21:25				
6071062	CO-60	3.59E+01	pCi/L	8.8E+00		4.36E+00		3.75E+01	GAMMALL_GS	2.0062E+00	04/13/2006			75	D
BS	10198-40-0			8.8E+00				95.9		L	21:25			125	
6071062	CS-134	9.03E-01	pCi/L	2.7E+00	U	4.95E+00			GAMMALL_GS	2.0062E+00	04/13/2006				D
BS	13967-70-9			2.7E+00						L	21:25				
6071062	CS-137	2.31E+01	pCi/L	7.9E+00		4.33E+00		2.48E+01	GAMMALL_GS	2.0062E+00	04/13/2006			70	D
BS	10045-97-3			7.9E+00				93.2		L	21:25			130	
6071062	EU-152	7.53E+01	pCi/L	3.5E+01	U	2.23E+01		7.59E+01	GAMMALL_GS	2.0062E+00	04/13/2006			70	D
BS	14683-23-9			3.5E+01				99.3		L	21:25			130	
6071062	EU-154	5.38E-01	pCi/L	7.4E+00	U	1.38E+01			GAMMALL_GS	2.0062E+00	04/13/2006				D
BS	15585-10-1			7.4E+00						L	21:25				
6071062	EU-155	2.34E+00	pCi/L	6.7E+00	U	1.16E+01			GAMMALL_GS	2.0062E+00	04/13/2006				D
BS	14391-16-3			6.7E+00						L	21:25				
6071062	K-40	-9.92E+01	pCi/L	6.4E+01	U	1.35E+02			GAMMALL_GS	2.0062E+00	04/13/2006				D
BS	13966-00-2			6.4E+01						L	21:25				
6071062	RU-106	1.36E+01	pCi/L	1.9E+01	U	3.62E+01			GAMMALL_GS	2.0062E+00	04/13/2006				D
BS	13967-48-1			1.9E+01						L	21:25				
6071062	SB-125	-4.78E+00	pCi/L	5.9E+00	U	9.72E+00			GAMMALL_GS	2.0062E+00	04/13/2006				D
BS	14234-35-6			5.9E+00						L	21:25				

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

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id: H05F51CS **Sdg/Rept Nbr:** W04873 31938 **Collection Date:** 02/28/2006 12:28
Client Id: NA **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** BS **Received Date:** 02/28/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6071063	Uranium	3.21E+01	ug/L	3.8E+00		7.59E-02		3.30E+01	UTOT_KPA	2.76E-02	04/18/2006			75	D
BS	7440-61-1			3.8E+00				97.2		ML	11:12			125	

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

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id: H05F51DS **Sdg/Rept Nbr:** W04873 31938 **Collection Date:** 02/28/2006 12:28
Client Id: NA **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** BS **Received Date:** 02/28/2006

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

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
6071063	Uranium	3.38E+00	ug/L	3.5E-01		7.91E-02		3.40E+00	UTOT_KPA	2.65E-02	04/18/2006			75	D
BS	7440-61-1			3.5E-01				99.3		ML	11:14			125	

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

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id: H05F61CS **Sdg/Rept Nbr:** W04873 31938 **Collection Date:** 02/28/2006 11:07
Client Id: NA **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** BS **Received Date:** 02/28/2006

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
6071064	I-129L	9.45E+00	pCi/L	1.2E+00		3.69E-01	96.3	9.56E+00	I129LL_SEP_L	4.00E+00	04/17/2006			70	D
BS	15046-84-1			1.2E+00				98.8		L	22:01			130	

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

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id: H05F71CS **Sdg/Rept Nbr:** W04873 31938 **Collection Date:** 02/28/2006 10:19
Client Id: NA **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** BS **Received Date:** 02/28/2006

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
6071065	TC-99	5.21E+02	pCi/L	4.0E+01		1.04E+01	100.0	5.29E+02	TC99_ETVDSK	1.28E-01	04/11/2006			75	D
BS	14133-76-7			1.3E+01				98.4		L	12:35			125	

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

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id: H05FX1CS **Sdg/Rept Nbr:** W04873 31938 **Collection Date:** 03/01/2006 12:32
Client Id: NA **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** BS **Received Date:** 03/01/2006

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
6071057	H-3	2.68E+03	pCi/L	2.7E+02		3.34E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	03/28/2006			70	D
BS	10028-17-8			2.2E+02				98.4		L	03:13			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.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id:	H05FX1EM	**Sdg/Rept Nbr:**	W04873 31938	**Collection Date:**	03/01/2006 12:32
Client Id:	NA	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	BS	**Received Date:**	03/01/2006

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
6071057	H-3	2.83E+03	pCi/L	2.8E+02		3.37E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	03/28/2006			70	D
BS	10028-17-8			2.2E+02				103.9		L	18:13			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.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id:	H0DG01ER	**Sdg/Rept Nbr:**	W04873 31938	**Collection Date:**	02/28/2006 10:19
Client Id:	B1HHL0	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	02/28/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I06-021	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
6071065	TC-99	4.82E+02	pCi/L	3.7E+01		1.01E+01	100.0		TC99_ETVDSK	1.253E-01	04/11/2006	5.6	1.		D
DUP	14133-76-7	4.56E+02		1.3E+01						L	01:08	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.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id: H0DJC1FR **Sdg/Rept Nbr:** W04873 31938 **Collection Date:** 02/28/2006 12:28
Client Id: B1HHP9 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 02/28/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I06-021	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
6071063	Uranium	2.62E+00	ug/L	2.7E-01		8.15E-02			UTOT_KPA	2.57E-02	04/18/2006	1.0	0.1		D
DUP	7440-61-1	2.60E+00		2.7E-01						ML	11:45	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.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id:	H0DJG1ER	**Sdg/Rept Nbr:**	W04873	31938	**Collection Date:** 02/28/2006 11:07
Client Id:	B1HK98	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 02/28/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I06-021	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
6071064	I-129L	-1.83E-02	pCi/L	1.5E-01	U	2.72E-01	97.3		I129LL_SEP_L	3.8842E+00	04/17/2006	0.0	0.1		D
DUP	15046-84-1	-3.38E-02		1.5E-01						L	20:15	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.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id: H0PL21HR **Sdg/Rept Nbr:** W04873 31938 **Collection Date:** 03/01/2006 12:17
Client Id: B1HPD5 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 03/01/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
G06-003	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
6071062	BE-7	-7.26E+00	pCi/L	1.7E+01	U	3.00E+01			GAMMALL_GS	1.852E+00	04/13/2006	536.6	1.9		D
DUP	13966-02-4	1.59E+01		1.7E+01						L	18:57	20.0	3		
6071062	CO-60	1.95E-01	pCi/L	1.7E+00	U	3.41E+00			GAMMALL_GS	1.852E+00	04/13/2006	104.7	0.4		D
DUP	10198-40-0	6.25E-01		1.7E+00						L	18:57	20.0	3		
6071062	CS-134	2.57E-01	pCi/L	1.8E+00	U	3.48E+00			GAMMALL_GS	1.852E+00	04/13/2006	0.0	0.5		D
DUP	13967-70-9	-4.46E-01		1.8E+00						L	18:57	20.0	3		
6071062	CS-137	-2.12E+00	pCi/L	2.3E+00	U	4.54E+00			GAMMALL_GS	1.852E+00	04/13/2006	0.0	1.7		D
DUP	10045-97-3	7.04E-01		2.3E+00						L	18:57	20.0	3		
6071062	EU-152	2.31E-02	pCi/L	4.0E+00	U	7.32E+00			GAMMALL_GS	1.852E+00	04/13/2006	198.6	2.3		D
DUP	14683-23-9	6.55E+00		4.0E+00						L	18:57	20.0	3		
6071062	EU-154	-1.18E+00	pCi/L	4.8E+00	U	9.03E+00			GAMMALL_GS	1.852E+00	04/13/2006	315.0	1.9		D
DUP	15585-10-1	5.30E+00		4.8E+00						L	18:57	20.0	3		
6071062	EU-155	-2.02E+00	pCi/L	3.3E+00	U	5.63E+00			GAMMALL_GS	1.852E+00	04/13/2006	0.0	0.		D
DUP	14391-16-3	-2.08E+00		3.3E+00						L	18:57	20.0	3		
6071062	K-40	-2.72E+00	pCi/L	3.6E+01	U	7.82E+01			GAMMALL_GS	1.852E+00	04/13/2006	0.0	0.2		D
DUP	13966-00-2	-7.30E+00		3.6E+01						L	18:57	20.0	3		
6071062	RU-106	-2.15E-01	pCi/L	1.4E+01	U	2.60E+01			GAMMALL_GS	1.852E+00	04/13/2006	207.6	1.2		D
DUP	13967-48-1	1.16E+01		1.4E+01						L	18:57	20.0	3		
6071062	SB-125	2.45E+00	pCi/L	3.4E+00	U	6.88E+00			GAMMALL_GS	1.852E+00	04/13/2006	0.0	2.1		D
DUP	14234-35-6	-2.56E+00		3.4E+00						L	18:57	20.0	3		

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

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id:	H0PLV1GR	**Sdg/Rept Nbr:**	W04873 31938	**Collection Date:**	03/01/2006 10:42
Client Id:	B1HPF3	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	03/01/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
G06-003	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
6071060	ALPHA	8.60E-01	pCi/L	1.4E+00	U	2.82E+00	100.0		9310_ALPHAB	1.00E-01	04/18/2006	15.2	0.1		D
DUP	12587-46-1	1.00E+00		1.3E+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.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id:	H0PLV1HR	**Sdg/Rept Nbr:**	W04873	31938	**Collection Date:** 03/01/2006 10:42
Client Id:	B1HPF3	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 03/01/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
G06-003	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
6071061	BETA	5.30E+03	pCi/L	6.7E+02		1.01E+01	100.0		9310_ALPHAB	5.17E-02	04/18/2006	14.1	1.5		D
DUP	12587-47-2	4.61E+03		6.5E+01						L	16:00	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.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id: H0PM11DR **Sdg/Rept Nbr:** W04873 31938 **Collection Date:** 03/01/2006 12:32
Client Id: B1HMF8 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 03/01/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S06-003	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
6071057	H-3	4.19E+03	pCi/L	3.3E+02		3.36E+02	100.0		906.0_H3_LSC	5.00E-03	03/29/2006	.1	0.		D
DUP	10028-17-8	4.19E+03		2.5E+02						L	01:01	20.0	3		

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

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id: H0PMT1GR **Sdg/Rept Nbr:** W04873 31938 **Collection Date:** 03/01/2006 10:46
Client Id: B1HR06 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** DUP **Received Date:** 03/01/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I06-026	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
6071059	BE-7	-2.42E+01	pCi/L	2.5E+01	U	3.84E+01			GAMMA_GS	1.5095E+00	04/13/2006	0.0	2.1		D
DUP	13966-02-4	1.30E+01		2.5E+01						L	17:08	20.0	3		
6071059	CO-60	1.07E+00	pCi/L	2.7E+00	U	5.38E+00			GAMMA_GS	1.5095E+00	04/13/2006	18.6	0.1		D
DUP	10198-40-0	8.86E-01		2.7E+00						L	17:08	20.0	3		
6071059	CS-134	1.04E+00	pCi/L	2.1E+00	U	4.24E+00			GAMMA_GS	1.5095E+00	04/13/2006	49.4	0.3		D
DUP	13967-70-9	6.27E-01		2.1E+00						L	17:08	20.0	3		
6071059	CS-137	-1.18E+00	pCi/L	2.1E+00	U	3.60E+00			GAMMA_GS	1.5095E+00	04/13/2006	0.0	0.4		D
DUP	10045-97-3	-5.70E-01		2.1E+00						L	17:08	20.0	3		
6071059	EU-152	-3.30E+00	pCi/L	5.3E+00	U	8.65E+00			GAMMA_GS	1.5095E+00	04/13/2006	466.4	3.1		D
DUP	14683-23-9	8.26E+00		5.3E+00						L	17:08	20.0	3		
6071059	EU-154	1.35E+00	pCi/L	6.0E+00	U	1.21E+01			GAMMA_GS	1.5095E+00	04/13/2006	0.0	0.8		D
DUP	15585-10-1	-2.05E+00		6.0E+00						L	17:08	20.0	3		
6071059	EU-155	-2.38E+00	pCi/L	3.9E+00	U	6.67E+00			GAMMA_GS	1.5095E+00	04/13/2006	0.0	1.1		D
DUP	14391-16-3	6.87E-01		3.9E+00						L	17:08	20.0	3		
6071059	K-40	1.50E+01	pCi/L	4.5E+01	U	9.88E+01			GAMMA_GS	1.5095E+00	04/13/2006	35.5	0.1		D
DUP	13966-00-2	1.05E+01		4.5E+01						L	17:08	20.0	3		
6071059	RU-106	-9.12E-01	pCi/L	1.5E+01	U	2.85E+01			GAMMA_GS	1.5095E+00	04/13/2006	0.0	1.4		D
DUP	13967-48-1	-1.65E+01		1.5E+01						L	17:08	20.0	3		
6071059	SB-125	-1.22E+00	pCi/L	4.7E+00	U	8.38E+00			GAMMA_GS	1.5095E+00	04/13/2006	316.1	2.		D
DUP	14234-35-6	5.43E+00		4.7E+00						L	17:08	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.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id:	H0R561CR	**Sdg/Rept Nbr:**	W04873 31938	**Collection Date:**	03/06/2006 11:17
Client Id:	B1HMJ0	**Matrix:**	WATER WATER	**Sample On Date:**	
Moisture/Solids%*:		**QC Type:**	DUP	**Received Date:**	03/06/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S06-003	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
6071058	SR-90	2.09E+02	pCi/L	3.0E+01		4.59E-01	64.1		SRISO_SEP_P	1.0108E+00	04/19/2006	2.0	0.2		D
DUP	10098-97-2	2.13E+02		3.2E+00						L	06:45	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.

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id: H0DH31EW **Sdg/Rept Nbr:** W04873 31938 **Collection Date:** 02/28/2006 11:36
Client Id: B1HHK4 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** MS **Received Date:** 02/28/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I06-021	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
6071065	TC-99	3.65E+03	pCi/L	3.5E+02		1.06E+01	100.0	3.58E+03	TC99_ETVDSK	1.26E-01	04/11/2006			60	D
MS	14133-76-7			4.0E+01				101.9		L	03:13			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.

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04873.Edd, h:\Reportdb\edd\FeadIV\Rad\31938.Edd

Lab Sample Id: H0DJE1EW **Sdg/Rept Nbr:** W04873 31938 **Collection Date:** 02/28/2006 08:57
Client Id: B1HHP3 **Matrix:** WATER WATER **Sample On Date:**
Moisture/Solids%*: **QC Type:** MS **Received Date:** 02/28/2006

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I06-021	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
6071063	Uranium	3.55E+01	ug/L	3.8E+00		8.28E-02		3.65E+01	UTOT_KPA	2.53E-02	04/18/2006			60	D
MS	7440-61-1			3.8E+00				97.1		ML	11:49			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.

SEVERN TRENT **STL**

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/19/2006 3:37:09 PM

Lot No., Due Date: J6C060202; 04/20/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6071060; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W04873; WATER

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

6.0 Comments on any No response:

First Level Review Steven E. Wheland **Date** 4/19/06

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/19/2006 3:35:00 PM

Lot No., Due Date: J6C060202,J6C060207,J6C060209,J6C060210; 04/20/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6071061; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W04873; 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 Steven E. McLeod **Date** 4/19/06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6071061

Review Item	Yes (√)	No (√)	N/A (√)
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 with contract acceptance criteria?	√		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	√		
8. Do the MS/MSD results and yields meet acceptance criteria?			√
9. Do the duplicate sample results and yields meet acceptance criteria?	√		
C. Other 1. Are all Nonconformances included and noted?			√
2. Are all required forms filled out?	√		
3. Was the correct methodology used?	√		
4. Was transcription checked?	√		
5. Were all calculations checked at a minimum frequency?	√		
6. Were units checked?	√		

Comments on any "No" response: _____

Second Level Review: [signature] Date: 4-20-06

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/19/2006 3:33:28 PM

Lot No., Due Date: J6C060202,J6C060211,J6C060207,J6C060209,J6C060210,J6C070360; 04/20/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6071058; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W04873; WATER

1.0 COC

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

2.0 QC Batch

	Yes	No	N/A
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

	Yes	No	N/A
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

	Yes	No	N/A
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

	Yes	No	N/A
5.1 Are all nonconformances included and noted?			✓
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?	✓		
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:

First Level Review Steven E. Nichols **Date** 4/19/06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6071058

Review Item	Yes (√)	No (√)	N/A (√)
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 with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: [signature] Date: 4-20-06

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/19/2006 3:29:08 PM

Lot No., Due Date: J6C060202; 04/20/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6071062; RGAMMA Gamma by GER

SDG, Matrix: W04873; WATER

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

6.0 Comments on any No response:

First Level Review Steven E. Mikland **Date** 4/19/06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6071062

Review Item	Yes (√)	No (√)	N/A (√)
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 with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: [signature] Date: 4-20-06

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/19/2006 3:31:23 PM

Lot No., Due Date: J6C060210; 04/20/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6071059; RGAMMA Gamma by GER

SDG, Matrix: W04873; WATER

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

6.0 Comments on any No response:

First Level Review [signature] **Date** 4/14/06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6071059

Review Item	Yes (√)	No (√)	N/A (√)
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 with contract acceptance criteria?	√		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	√		
8. Do the MS/MSD results and yields meet acceptance criteria?			√
9. Do the duplicate sample results and yields meet acceptance criteria?	√		
C. Other 1. Are all Nonconformances included and noted?			√
2. Are all required forms filled out?	√		
3. Was the correct methodology used?	√		
4. Was transcription checked?	√		
5. Were all calculations checked at a minimum frequency?	√		
6. Were units checked?	√		

Comments on any "No" response:

Second Level Review: [signature] Date: 4-20-06

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/19/2006 3:26:29 PM

Lot No., Due Date: J6B280376,J6B280380; 04/20/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6071064; RGAMLEPS Gamma by LEPS

SDG, Matrix: W04873; 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 Alison E. Nicholson **Date** 4/19/06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6071064

Review Item	Yes (√)	No (√)	N/A (√)
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 with contract acceptance criteria?	√		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	√		
8. Do the MS/MSD results and yields meet acceptance criteria?			√
9. Do the duplicate sample results and yields meet acceptance criteria?	√		
C. Other 1. Are all Nonconformances included and noted?			√
2. Are all required forms filled out?	√		
3. Was the correct methodology used?	√		
4. Was transcription checked?	√		
5. Were all calculations checked at a minimum frequency?	√		
6. Were units checked?	√		

Comments on any "No" response: _____

Second Level Review: [signature] Date: 4-20-00

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/11/2006 5:06:42 PM

Lot No., Due Date: J6B280376,J6B280380; 04/20/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6071065; RTC99 Tc-99 by LSC

SDG, Matrix: W04873; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	✓		
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	✓		
8.02 Final Results Are in the Appropriate Activity Units OK	✓		
8.03 Batch Contains the Required QC Appropriate for the Method OK	✓		
8.04 The Correct Tracer and QC Vials Where Used in the Samples Incorrect Tracer/Vial => H0DH31AE TCSG<>TCSE Q:V9		✓	
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	✓		
8.06 At Least the Minimum Sample Volume Was Used OK	✓		
8.07 The Correct Count Geometry was Used. OK	✓		
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	✓		
8.09 Method Blank is within Control Limits. OK	✓		
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBlks) found in Batch!			✓
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	✓		
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	✓		
8.14 LCS within Control Limits. OK	✓		
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!			✓
8.16 MS within Control Limits. OK	✓		
8.17 Tracer within Control Limits. No Tracers found in Batch!			✓
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!			✓
8.19 Sample Specific MDC <= CRDL. OK	✓		
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!			✓
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc_IDL Not Calculated	✓		
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => TC-99 OK; No Callin Level Found => TC-99	✓		
8.24 Result + 3s >=0, Not Too Negative. OK	✓		
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!			✓

8.26 Instruments have Current Calibrations. Yes No N/A

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

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

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

8.3 Comments:

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

First Level Review Pam Anderson **Date** 4-12-06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6071065

Review Item	Yes (√)	No (√)	N/A (√)
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 with contract acceptance criteria?	√		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	√		
8. Do the MS/MSD results and yields meet acceptance criteria?	√		
9. Do the duplicate sample results and yields meet acceptance criteria?	√		
C. Other 1. Are all Nonconformances included and noted?			√
2. Are all required forms filled out?	√		
3. Was the correct methodology used?	√		
4. Was transcription checked?	√		
5. Were all calculations checked at a minimum frequency?	√		
6. Were units checked?	√		

Comments on any "No" response:

Second Level Review: [signature] Date: 4-20-06

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

3/30/2006 9:49:02 AM

Lot No., Due Date: J6B280376,J6B280380,J6C060202,J6C060211,J6C060207,J6C060209,J6C060210; 04/20/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6071057; RTRITIUM H-3 by LSC

SDG, Matrix: W04873; 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 Pam Quinram **Date** 3-30-06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6071057

Review Item	Yes (√)	No (√)	N/A (√)
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 with contract acceptance criteria?	√		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	√		
8. Do the MS/MSD results and yields meet acceptance criteria?			√
9. Do the duplicate sample results and yields meet acceptance criteria?	√		
C. Other 1. Are all Nonconformances included and noted?			√
2. Are all required forms filled out?	√		
3. Was the correct methodology used?	√		
4. Was transcription checked?	√		
5. Were all calculations checked at a minimum frequency?	√		
6. Were units checked?	√		

Comments on any "No" response: _____

Second Level Review: [signature] Date: 4-20-06

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

4/19/2006 11:20:41 AM

Lot No., Due Date: J6B280376,J6B280380; 04/20/2006

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 6071063; RUNAT UNat by KPA

SDG, Matrix: W04873; 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 Mark Landy **Date** 4-19-06

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 6071063

Review Item	Yes (√)	No (√)	N/A (√)
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 with contract acceptance criteria?	√		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	√		
8. Do the MS/MSD results and yields meet acceptance criteria?	√		
9. Do the duplicate sample results and yields meet acceptance criteria?	√		
C. Other 1. Are all Nonconformances included and noted?			√
2. Are all required forms filled out?	√		
3. Was the correct methodology used?	√		
4. Was transcription checked?	√		
5. Were all calculations checked at a minimum frequency?	√		
6. Were units checked?	√		

Comments on any "No" response: _____

Second Level Review: [signature] Date: 4-20-06

PNNL	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I06-021-15
		Page 1 of 1

Collector K. Hulse	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. I06-021	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 2UP1-LOI, FEBRUARY 2006	DTJ- SAWS H102	Ice Chest No. SAWS 221 Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No. N/A
Protocol SURV	Priority: 45 Days	Offsite Property No. N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** W04873 J6B280376 4-14-06

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HHL0		W	2-28-06	1019	1x20-mL P	Activity Scan HODGO	None
B1HHL0		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1HHL0		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1HHL0		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
K. Hulse			FEB 2 8 2006 1500	Jeff Jensen			FEB 2 8 2006 1500
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

<100 CPM *

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

PNNL	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I06-021-10
		Page 1 of 1

Collector DURATEK K. B. HULSE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I06-021	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2UP1-LOL FEBRUARY 2006	DTS- SAWS H 102	**Ice Chest No.** SAWS 221 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.** N/A
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.** N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** **
WO 4873

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HHK4		W	2-28-06	1134	1x20-mL P	Activity Scan H0DH3	None
B1HHK4		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1HHK4		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1HHK4		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK K. B. HULSE			1500 FEB 28 2006	Jeff Jensen			1500 FEB 28 2006
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

<100 CPM

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

PNNL	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I06-021-18
		Page 1 of 1

Collector DURATEK D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I06-021	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2UP1-LOI, FEBRUARY 2006	DTS-SAWS-H98	**Ice Chest No.** SAWS-209 **Temp.**
Shipped To (Lab) Severn Trent 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
** **
W04873

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HHL2		W	2-28-06	0842	1x20-mL P	Activity Scan H00H6	None
B1HHL2		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1HHL2		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1HHL2		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK D. E. PARCHEN			FEB 28 2006 1500	Jeff Jensen			FEB 28 2006 1500
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

<100 CPM

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

PNNL	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I06-021-24
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Collector DURATEK D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I06-021	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2UP1-LOI, FEBRUARY 2006	DTS - SAWS - Hqf	**Ice Chest No.** SAWS-209 **Temp.**
Shipped To (Lab) Severn Trent 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
** **
W04873

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HHL8		W	2-28	0923	1x20-mL P	Activity Scan H0DH7	None
B1HHL8		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1HHL8		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1HHL8		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK D. E. PARCHEN			FEB 28 2006 1500	Jeff Jensen			FEB 28 20 1500
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

<100 CPM

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

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I06-021-5

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Collector DURATEK D. E. PARCHEN	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. I06-021	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 2UP1-LOI, FEBRUARY 2006	DTS-SAWS-H98	Ice Chest No. SAWS-209 Temp.
Shipped To (Lab) Severn Trent 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
** **

W04973

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HHJ7		W	2-28-06	1029	1x20-mL P	Activity Scan H00H9	None
B1HHJ7		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1HHJ7		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1HHJ7		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1HHJ7		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK D. E. PARCHEN			FEB 28 2006 1500	Jeff Jensen			FEB 28 2006 1500
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 *
<100 CPM

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

PNNL	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I06-021-29
		Page 1 of 1

Collector DURATEK D. E. PARCHEN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I06-021	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2UP1-LOI, FEBRUARY 2006	DTS-SAWS-498	**Ice Chest No.** SAWS-209 **Temp.**
Shipped To (Lab) Severn Trent 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
** **
WO 4473

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HHM4		W	2-28-06	1142	1x20-mL P	Activity Scan HODJA	None
B1HHM4		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1HHM4		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1HHM4		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1HHM4		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK D. E. PARCHEN			FEB 28 2006 1500	Jeff Jensen			FEB 28 2006 1500
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

<100 CPM

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 02 28 06 1500

Client: PWW SDG #: W04873 NA [ ] SAF #: I06-021 NA [ ]

Work Order Number: J6B280376 Chain of Custody # I06-021-15, 10, 18, 24, 5, 29

Shipping Container ID: STWS 209, 221 Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5.Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 32
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ tape
   - X custody seals
   - ____ hazard labels
   - X appropriate samples labels
9. Samples are:
   - X in good condition
   - ____ broken
   - ____ leaking
   - ____ have air bubbles (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] adjusted pH [ ]
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: 02 28 06

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

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PNNL	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I06-021-59
		Page 1 of 1

Collector 2-28-06 R.T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I06-021	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2UP1-LOI, FEBRUARY 2006	DTS SAWS H103B	**Ice Chest No.** SAWS-119 **Temp.**
Shipped To (Lab) Severn Trent 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
** **
W04873
J6B280380
Due 04 14 06

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HHP9		W	2-28-06	1228	1x20-mL P	Activity Scan HODJC	None
B1HHP9		W		1228	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1HHP9		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1HHP9		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1HHP9		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

Relinquished By 2-28-06 R.T. SICKLE Print Sign Date/Time 1415 FEB 28 2006	Received By Jeff Jensen Print Sign Date/Time 1415 FEB 28 2006	Matrix * <100 CPM
Relinquished By Date/Time	Received By Date/Time	S = Soil, SE = Sediment, SO = Solid, SL = Sludge, W = Water, O = Oil, A = Air, DS = Drum Solid, DL = Drum Liqui, T = Tissue, WI = Wine, L = Liquid, V = Vegetation, X = Other
Relinquished By Date/Time	Received By Date/Time	
Relinquished By Date/Time	Received By Date/Time	

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

PNNL	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I06-021-65
		Page 1 of 1

Collector R.T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I06-021	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2UP1-LOI, FEBRUARY 2006	DTS-SAWS-H103B	**Ice Chest No.** SAWS 119 **Temp.**
Shipped To (Lab) Severn Trent 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
** **
W04873

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HHR2		W	2-28-06	0944	1x20-mL P	Activity Scan H0DJD	None
B1HHR2		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1HHR2		W	↓	↓	2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	R.T. SICKLE		1415 FEB 28 2006		Jeff Jensen		1415 FEB 28 2006
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

<100 CPM

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

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I06-021-47

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Collector: R.T. SICKLE	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: I06-021	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 2UP1-LOI, FEBRUARY 2006	DTS - SAWS - H 103B	Ice Chest No.: SAWS-119 Temp.
Shipped To (Lab): Severn Trent 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
** ** W04873

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HHP3		W	2-28-06	0857	1x20-mL P	Activity Scan HODJE	None
B1HHP3		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1HHP3		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1HHP3		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Received By
Print: R.T. SICKLE Sign: Date/Time: 1415 FEB 28 2006	Print: Jeff Jensen Sign: Date/Time: 1415 FEB 28 2006
Relinquished By Date/Time	Received By Date/Time
Relinquished By Date/Time	Received By Date/Time
Relinquished By Date/Time	Received By Date/Time

<100 CPM

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

PNNL	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I06-021-72
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Collector R.T. SICKLE	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. I06-021	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 2UP1-LOI, FEBRUARY 2006	D7S SAWS H103B	Ice Chest No. SAWS-119 Temp.
Shipped To (Lab) Severn Trent 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
** ** WO 4173

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HK98		W	2-28-06	1107	1x20-mL P	Activity Scan H0DJG	None
B1HK98		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1HK98		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1HK98		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R.T. SICKLE			415 FEB 28 2006	Jeff Jensen			415 FEB 28 2006
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

<100 CPM

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 02 21 06 1415

Client: PWW SDG #: W09873 NA [ ] SAF #: I06-021 NA [ ]

Work Order Number: J6B280380 Chain of Custody # I06-021-59, 65, 47, 72

Shipping Container ID: SAWS 119 Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5.Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 30
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ tape
   - X custody seals
   - ____ hazard labels
   - ✓ appropriate samples labels
9. Samples are:
   - X in good condition
   - ____ broken
   - ____ leaking
   - ____ have air bubbles (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] adjusted pH [ ]
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: 02 22 06

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

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PNNL	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I06-026-16
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Collector DURATEK R. R. FOX	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I06-026	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100NR2IAM-LOI, MARCH 2006	Logbook: DTS - SHWS - 11102	**Ice Chest No.** SAWS-221 **Temp.**
Shipped To (Lab) Severn Trent 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
** **
J6C060210
W04873

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HR06		W	3/1/06	1046	1x1000-mL P	906.0_H3_LSC: Tritium (1) HOPMT	None
B1HR06		W			1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
B1HR06		W			1x20-mL P	Activity Scan	None
B1HR06		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1HR06		W			3x1000-mL G/P	GAMMA_GS: List-1 (10)	HNO3 to pH <2

K. Wall 3/1/06

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK R. R. FOX			MAR 0 1 2006 15:05	David Harbinson			MAR 0 1 2006 15:05
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

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I06-026-13

Page 1 of 1

Collector: DURATEK R. R. FOX	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: I06-026	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: 100NR2IAM-LOI, MARCH 2006	Logbook: DTS-SAWS-H102	Ice Chest No.: SAWS-221 Temp.
Shipped To (Lab): Severn Trent 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
** **
JG C060210
W04873
57671
Due: 4/14/06

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HR02		W	3/1/06	1232	1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1) HOPMP	HNO3 to pH <2
B1HR02		W	↓	↓	1x20-mL P	Activity Scan	None

D. Wall 3/1/06

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK R. R. FOX			MAR 0 1 2006 1505	DAVID HARRISON			MAR 0 1 2006 1505
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 03 01 06 1505

Client: PLW SDG #: WCL1873 NA [ ] SAF #: I06-026 S06-003 NA [ ]

Work Order Number: JTCC00210 Chain of Custody # I06-026-16, 13 S06-003-25, 26

Shipping Container ID: SMOS 221 Air Bill # N/A

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 21
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 [ ] adjusted pH [ ]
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: 03 02 06

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

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PNNL	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S06-003-25
		Page 1 of 1

Collector DURATEK R. R. FOX	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S06-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV MARCH 2006	Logbook: DTS-SAWS-H102	**Ice Chest No.** SAWS-221 **Temp.**
Shipped To (Lab) Severn Trent 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
** **
JGCD002111
W04873 Due: 4/14/06

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HMF8		W	3/1/06	1232	1x20-mL P	Activity Scan HOPM1	None
B1HMF8		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1HMF8		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
			R. Wall	3/1/06			

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK R. R. FOX			MAR 0 1 2006 1505	DAVID HARBISON			MAR 0 1 2006 1505
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

PNNL	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S06-003-26
		Page 1 of 1

Collector DURATEK R. R. FOX	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. S06-003	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURV MARCH 2006	Logbook: DTS-SAWS-H102	Ice Chest No. SAWS-221 Temp.
Shipped To (Lab) Severn Trent 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
** ** JGC060211
W04873

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HMF9		W	3/1/06	1232	1x20-mL P	Activity Scan HDPM2	None
B1HMF9		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
B1HMF9		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

R. Wall 3/1/06

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK R. R. FOX			MAR 0 1 2006 1505	David Hanbisa			MAR 0 1 2006 1505
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 03 01 06 1505

Client: PGW SDG #: W04873 NA [ ] SAF #: S06-003 I06-026 NA [ ]

Work Order Number: JCOC 000211 Chain of Custody # I06-026-16, 13 S06-003-25, 26

Shipping Container ID: SMOS 221 Air Bill # N/A

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 21
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 [ ] adjusted pH [ ]
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: 03 02 06

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

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PNNL	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # G06-003-2
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Collector R.T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. G06-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title CERCLA 1NR2-RB, MARCH 2006	DTS-SHWS-H103T3	**Ice Chest No.** SHWS 119 **Temp.**
Shipped To (Lab) Severn Trent 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
** **
JLC 060222
W04873

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HPD5		W	3-1-06	1217	1x1000-mL P	906.0_H3_LSC: Tritium (1) HOPL2	None
B1HPD5		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1HPD5		W			1x20-mL P	Activity Scan	None
B1HPD5		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1HPD5		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

Relinquished By	Received By
Print: R.T. SICKLE Sign: Date/Time: MAR 0 1 2006 1450	Print: DAVID HARBINSON Sign: Date/Time: MAR 0 1 2006 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

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # G06-003-8

Page 1 of 1

Collector: R.T. SICKLE	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: G06-003	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: CERCLA 1NR2-RB, MARCH 2006	DTS-SAWS-H103B	Ice Chest No.: SAWS 119 Temp.
Shipped To (Lab): Severn Trent 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
** **
JGC d00202
WO4187 43 RW 3/6/06 Dec. 4 3/14/06 RW 3/16/06
57671

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HPF3		W	3-1-06	1042	1x1000-mL P	906.0_H3_LSC: Tritium (1) HOPLV	None
B1HPF3		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1HPF3		W			1x20-mL P	Activity Scan	None
B1HPF3		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1HPF3		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	R.T. SICKLE		MAR 0 1 2006 1450		DAVID HANDISON		MAR 0 1 2006 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 = 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

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # G06-003-26

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Collector: R.T. SICKLE	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: G06-003	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: CERCLA 1NR2-RB, MARCH 2006	DTS-SAWS-H103B	Ice Chest No.: SAWS-119 Temp.
Shipped To (Lab): Severn Trent 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
** **
JL6C080202
WO4873 RW 3/6/06

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HPJ6		W	3-1-06	1153	1x1000-mL P	906.0_H3_LSC: Tritium (1) H0PL3	None
B1HPJ6		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1HPJ6		W			1x20-mL P	Activity Scan	None
B1HPJ6		W			1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1HPJ6		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

Relinquished By	Received By
Print: R.T. SICKLE Sign: Date/Time: 1450 MAR 01 2006	Print: DAVID HARBINSON Sign: Date/Time: 1450 MAR 01 2006
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

SEVERN TRENT **STL**

Sample Check-in List

Date/Time Received: 03 01 06 1450

Client: PLW SDG #: W04837 3 NA [ ] SAF #: 606-003 I06-026 NA [ ]

Work Order Number: JC000202 Chain of Custody # 606-003-26, 2, 8 I06-026-8 RW 3/6/06

Shipping Container ID: SAWS 119 Air Bill # N/A

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: ~~20~~ 27 on 03.06.06
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - ____ tape
   - X custody seals
   - ____ hazard labels
   - X appropriate samples labels
9. Samples are:
   - X in good condition
   - ____ broken
   - ____ leaking
   - ____ have air bubbles (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] adjusted pH [ ]
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: 03 02 06

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

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PNNL	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I06-026-8
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Collector R.T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I06-026	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 100NR2IAM-LOI, MARCH 2006	DTS-SAWS-H103B	**Ice Chest No.** SAWS-119 **Temp.**
Shipped To (Lab) Severn Trent 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
** **
JLC060207
W04873
Due: 4/14/06

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HPY5		W	3-1-06	1001	1x1000-mL P	906.0_H3_LSC: Tritium (1) HOPMD	None
B1HPY5		W			1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
B1HPY5		W			1x20-mL P	Activity Scan	None
B1HPY5		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

Relinquished By: Print	Sign	Date/Time	Received By Print	Sign	Date/Time
R.T. SICKLE		MAR 0 1 2006 1450	David HARBINSON		MAR 0 1 2006 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

SEVERN TRENT **STL**

Sample Check-in List

Date/Time Received: 03 01 06 1450

Client: PLW SDG #: W04873 NA [ ] SAF #: J06-026 G06-003 NA [ ]

Work Order Number: JCC00207 Chain of Custody # G06-003-26, 2, 1 J06-026-8

Shipping Container ID: SAWS 119 Air Bill # N/A

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: ~~20~~ 27 DL 03-02-06
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 [✓] adjusted pH [ ]
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: 03 02 06

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, 12/05, Rev. 6

PNNL	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I06-026-5
		Page 1 of 1

Collector DURATEK D. E. PARCHEN	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. I06-026	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title 100NR2IAM-LOI, MARCH 2006	DTS-SAWS-H104	Ice Chest No. SAWS-209 Temp.
Shipped To (Lab) Severn Trent 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
** **
57671
JOC060209
W04873 Due: 4/14/06

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HPY0		W	3-1-06	1220	1x1000-mL P	906.0_H3_LSC: Tritium (1) HOPMK	None
B1HPY0		W			1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2
B1HPY0		W			1x20-mL P	Activity Scan	None
B1HPY0		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK D. E. PARCHEN			MAR 01 2006	DAVID HABBINGA			MAR 01 2006 15:00
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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 03 01 06 1500

Client: PLW SDG #: WC4873 NA [ ] SAF #: I06-026 NA [ ]

Work Order Number: JTCW0209 Chain of Custody # I06-026-5

Shipping Container ID: SRWS 209 Air Bill # N/A

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 6
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   ____ tape ____ hazard labels
   ✓ custody seals ✓ appropriate samples labels
9. Samples are:
   ✓ in good condition ____ leaking
   ____ broken ____ have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] adjusted pH [ ]
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: 03 02 06

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, 12/05, Rev. 6

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S06-003-43

Page 1 of 1

Collector DURATEK F. M. HALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S06-003	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV MARCH 2006	DTS-SAWS-11109	**Ice Chest No.** DANS **Temp.**
Shipped To (Lab) Severn Trent 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
** **
JOC.070260
SDG#: W04873
Due: 4/20/06

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1HMJ0		W	3-6-06	1117	1x20-mL P	Activity Scan	None
B1HMJ0		W	↓	↓	3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1) HOR56	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK F. M. HALL			MAR 06 2006 13:50	DAVID HARBINSON			MAR 06 2006 13:50
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 3/6/06 13:50

Client: PGW SDG #: WD 4873 NA [ ] SAF #: 506-003 NA [ ]

Work Order Number: J6C070360 Chain of Custody # 506-003-43

Shipping Container ID: SAWS H104 Air Bill # N/A

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

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

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

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

6. Number of samples in shipping container: 4

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 [ ] adjusted pH [ ]

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: 3-6-06

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, 12/05, Rev. 6

4/10/2006 5:39:55 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: 229

Report Due: 04/20/2006 W04873

Sep1 DT/Tm Tech:

Batch: 6071060 **WATER** **pCi/L** **PM, Quote: HC , 57671**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: WAGNERJ Scott

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 H0PLV-1-AC (100mL) J6C060202-1-SAMP 03/01/2006 10:42	AmtRec: 6 LITERS	100.30g,in	#Containers: 6	1.5	19.0	50	10E	1550	4/18/06	Scr: Alpha: 6.81E-03 uCi/Sa 2.4E-01L | Beta: 1.55E-02 uCi/Sa 5.2E-02L
2 H0PLV-1-AG-X (100mL) J6C060202-1-DUP 03/01/2006 10:42	AmtRec: 6 LITERS	100.00g,in	#Containers: 6		19.7		10A	1701		Scr: Alpha: 6.81E-03 uCi/Sa 2.4E-01L | Beta: 1.55E-02 uCi/Sa 5.2E-02L
3 H0PL2-1-AC J6C060202-2-SAMP 03/01/2006 12:17	AmtRec: 6 LITERS	164.50g,in	#Containers: 6		22.3		10B			Scr: Alpha: 1.69E-03 uCi/Sa | Beta: 1.88E-03 uCi/Sa
4 H0PL3-1-AC J6C060202-3-SAMP 03/01/2006 11:53	AmtRec: 6 LITERS	146.90g,in	#Containers: 6		42.6		10C			Scr: Alpha: 7.11E-04 uCi/Sa | Beta: 2.36E-03 uCi/Sa
5 H05F2-1-AA-B J6C120000-60-BLK 03/01/2006 10:42	AmtRec:	210.50g,in	#Containers: 1		0.2		10D			Scr: Alpha: | Beta:
6 H05F2-1-AC-C J6C120000-60-LCS 03/01/2006 10:42	AmtRec:	199.80g,in	ASD3829 04/10/06,pd 02/09/06,r #Containers: 1		0.4		10E			Scr: Alpha: | Beta:

4/19/2006 3:36:14 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/19/2005, 4/24/2006, Batch: '6071060', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6071060						
AC		**InCnt1**	**WAGNERJ**	4/10/2006 5:27:29 PM		
SC			wagarr	IsBatched	3/12/2006 2:41:04 PM	ICOC_RADCALC v4.8.18
SC			WAGNERJ	InPrep	4/10/2006 5:27:29 PM	RICH-RC-5014 REVISION 6
SC			WAGNERJ	Prep1C	4/10/2006 5:42:50 PM	RICH-RC-5014 REVISION 6
SC			ScottM	InPrep2	4/15/2006 11:23:25 AM	RICH-RC-5014 REVISION 6
SC			ScottM	Prep2C	4/18/2006 10:44:17 AM	RICH-RC-5014 REVISION 6
SC			BlackCL	InCnt1	4/18/2006 10:55:24 AM	RICH-RD-0003 REVISION 4
AC			**WAGNERJ**	4/10/2006 5:42:50 PM		
AC			**ScottM**	4/15/2006 11:23:25		
AC			**ScottM**	4/18/2006 10:44:17		
AC			**BlackCL**	4/18/2006 10:55:24		

AC: Accepting Entry; SC: Status Change

4/10/2006 5:39:57 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: 229

Report Due: 04/20/2006 W04873

Sep1 DT/Tm Tech:

Batch: 6071061 WATER pCi/L PM, Quote: HC , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: WAGNERJ

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 H0PLV-1-AD (S2ml) J6C060202-1-SAMP 03/01/2006 10:42		51.70g,in AmtRec: 6 LITERS	#Containers: 6	1.5	14.8	100	27B	1649	4/18	Scr: Alpha: 6.81E-03 uCi/Sa 2.4E-01L Beta: 1.55E-02 uCi/Sa 5.2E-02L
2 H0PLV-1-AH-X (~52ml) J6C060202-1-DUP 03/01/2006 10:42		51.70g,in AmtRec: 6 LITERS	#Containers: 6		14.0		27C			Scr: Alpha: 6.81E-03 uCi/Sa 2.4E-01L Beta: 1.55E-02 uCi/Sa 5.2E-02L
3 H0PL2-1-AD J6C060202-2-SAMP 03/01/2006 12:17		198.00g,in AmtRec: 6 LITERS	#Containers: 6		62.0		27D			Scr: Alpha: 1.69E-03 uCi/Sa Beta: 1.88E-03 uCi/Sa
4 H0PL3-1-AD J6C060202-3-SAMP 03/01/2006 11:53		198.10g,in AmtRec: 6 LITERS	#Containers: 6		48.8		28B			Scr: Alpha: 7.11E-04 uCi/Sa Beta: 2.36E-03 uCi/Sa
5 H0PMD-1-AC J6C060207-1-SAMP 03/01/2006 10:01		202.70g,in AmtRec: 5 LITERS	#Containers: 5		48.1		28C			Scr: Alpha: 6.66E-07 uCi/Sa Beta: 2.65E-06 uCi/Sa
6 H0PMK-1-AC J6C060209-1-SAMP 03/01/2006 12:20		204.80g,in AmtRec: 5 LITERS	#Containers: 5		34.9		28D			Scr: Alpha: 1.49E-06 uCi/Sa Beta: 1.81E-06 uCi/Sa
7 H0PMP-1-AA J6C060210-1-SAMP 03/01/2006 12:32		84.50g,in AmtRec: 1000ML	#Containers: 1		75.0		31A			Scr: Alpha: -1.10E-04 uCi/Sa Beta: 3.78E-05 uCi/Sa

4/10/2006 5:39:58 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: 329

Report Due: 04/20/2006

Sep1 DT/Tm Tech:

Batch: 6071061 **WATER** **pCi/L** **PM, Quote: HC , 57671**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WAGNERJ

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 H0PMT-1-AC J6C060210-2-SAMP 03/01/2006 10:46		198.40g,in AmtRec: 8 LITERS	#Containers: 8	1.5	64.7	100	3/B	1649	4/18/06	Scr: Alpha: 2.73E-04 uCi/Sa Beta: -5.65E-04 uCi/Sa
9 H05F3-1-AA-B J6C120000-61-BLK 03/01/2006 10:42		198.20g,in AmtRec:	#Containers: 1		0.2		3/C			Scr: Alpha: Beta:
10H05F3-1-AC-C J6C120000-61-LCS 03/01/2006 10:42		204.80g,in AmtRec:	BESB2762 04/10/06,pd 12/28/05,r #Containers: 1		0.4		3/D			Scr: Alpha: Beta:

Comments: H0PLV-SAMP "Comments: Sample H0PLV had reduced aliquot due to activity screen. jw 4-7-06"
H0PL2-SAMP "Comments: Reduced aliquots for Alpha on samples H0PL2 and L3 due to wt. screens. jw 4-10-06"
H0PMP-SAMP "Comments: Reduced aliquots on Beta for sample H0PMP due to wt. screens. jw 4-10-06"
PNL2. 4-10-06

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

H0PLV1AD-SAMP Constituent List:
BETA RDL:4 pCi/L LCL: UCL: RPD:
H05F31AA-BLK:
BETA RDL:4 pCi/L LCL: UCL: RPD:
H05F31AC-LCS:
Sr-90 RDL: pCi/L LCL:70 UCL:130 RPD:20
H0PLV1AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H05F31AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H05F31AC-LCS:

4/19/2006 3:34:17 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/19/2005, 4/24/2006, Batch: '6071061', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6071061						
AC		**InCnt1**	**WAGNERJ**	4/10/2006 5:27:37 PM		
SC			wagarr	IsBatched	3/12/2006 2:41:04 PM	ICOC_RADCALC v4.8.18
SC			WAGNERJ	InPrep	4/10/2006 5:27:37 PM	RICH-RC-5014 REVISION 6
SC			WAGNERJ	Prep1C	4/10/2006 5:42:53 PM	RICH-RC-5014 REVISION 6
SC			ScottM	InPrep2	4/15/2006 11:23:56 AM	RICH-RC-5014 REVISION 6
SC			ScottM	Prep2C	4/18/2006 2:56:20 PM	RICH-RC-5014 REVISION 6
SC			BlackCL	InCnt1	4/18/2006 3:02:05 PM	RICH-RD-0003 REVISION 4
AC			**WAGNERJ**	4/10/2006 5:42:53 PM		
AC			**ScottM**	4/15/2006 11:23:56		
AC			**ScottM**	4/18/2006 2:56:20 PM		
AC			**BlackCL**	4/18/2006 3:02:05 PM		

AC: Accepting Entry; SC: Status Change

4/7/2006 10:49:55 AM

Sample Preparation/Analysis

Balance Id:1120482733 101

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: NA

Report Due: 04/20/2006 W04843

Sep1 DT/Tm Tech: 4-8-06 5:01 PM

Sep2 DT/Tm Tech: 4-17-06 11:55 AM

Batch: 6071058 **WATER** **pCi/L** **PM, Quote: HC , 57671**

SEQ Batch, Test: None All Tests: 6071057 ARS6, 6071058 CLTL, 6071060 AZS7, 6071061 BCS8, 6071062 AWTA,

Prep Tech: WAGNERJ

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 H0PLV-1-AF (568 ml) J6C060202-1-SAMP		587.80g,in	SRTB13349 04/03/06,pd 11/09/05,r YTA15443 Ex:3/28/2007	1.708 2.0397 .8374		23.7	30 100 55	9? 2B 2B	1217 0844 0832	4/18/06 4/18/06 4/19/06	
03/01/2006 10:42		AmtRec: 6 LITERS		#Containers: 6					Scr: Alpha: 6.81E-03 uCi/Sa 2.4E-01L	Beta: 1.55E-02 uCi/Sa 5.2E-02L	
2 H0PL2-1-AF J6C060202-2-SAMP		999.90g,in	SRTB13350 04/03/06,pd 11/09/05,r YTA15444 Ex:3/28/2007	1.808 2.0088 .9000		23.1		3? 2C 2A	1217 0744 0734	4/18/06 4/18/06 4/19/06	
03/01/2006 12:17		AmtRec: 6 LITERS		#Containers: 6					Scr: Alpha: 1.69E-03 uCi/Sa	Beta: 1.88E-03 uCi/Sa	
3 H0PL3-1-AF J6C060202-3-SAMP		1000.80g,in	SRTB13351 04/03/06,pd 11/09/05,r YTA15445 Ex:3/28/2007	1.681 2.0212 .8317		23.4		9? 2D 2D	1249 0744 0734	4/18/06 4/18/06 4/19/06	
03/01/2006 11:53		AmtRec: 6 LITERS		#Containers: 6					Scr: Alpha: 7.11E-04 uCi/Sa	Beta: 2.36E-03 uCi/Sa	
4 H0PMD-1-AD J6C060207-1-SAMP		1000.40g,in	SRTB13352 04/03/06,pd 11/09/05,r YTA15446 Ex:3/28/2007	1.821 2.0088 .9065		23.9		3? 3A 2C	1249 0744 0734	4/18/06 4/18/06 4/19/06	
03/01/2006 10:01		AmtRec: 5 LITERS		#Containers: 5					Scr: Alpha: 6.66E-07 uCi/Sa	Beta: 2.65E-06 uCi/Sa	

4/7/2006 10:49:56 AM

Sample Preparation/Analysis

Balance Id:1120482733,01

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: NA

Report Due: 04/20/2006

Sep1 DT/Tm Tech: 4-8-06 5:01 PM

Sep2 DT/Tm Tech: 4-17-06 11:55 AM

Batch: 6071058 WATER pCi/L PM, Quote: HC , 57671

SEQ Batch, Test: None

Prep Tech: ,WAGNERJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
5 H0PMK-1-AD		1010.00g,in	SRTB13353	1.620							
J6C060209-1-SAMP			04/03/06,pd								
			11/09/05,r	2.0088			30	9"	1320	4/15/06	
			YTA15447	.8065				3C	0744	4/18/06	
			Ex:3/28/2007			23.7	100	2D	0734	4/19/06	
03/01/2006 12:20		AmtRec: 5 LITERS	#Containers: 5					Scr:	Alpha: 1.49E-06 uCi/Sa	Beta: 1.81E-06 uCi/Sa	
6 H0PMT-1-AE		998.30g,in	SRTB13354	1.754							
J6C060210-2-SAMP			04/03/06,pd					3"	1320	4/15/06	
			11/09/05,r	2.0211							
			YTA15448	.8688				3C	0744	4/18/06	
			Ex:3/28/2007			.238		3D	0734	4/19/06	
03/01/2006 10:46		AmtRec: 8 LITERS	#Containers: 8					Scr:	Alpha: 2.73E-04 uCi/Sa	Beta: -5.65E-04 uCi/Sa	
7 H0PM1-1-AC		1003.50g,in	SRTB13355	1.220							
J6C060211-1-SAMP			04/03/06,pd					9"	1403	4/15/06	
			11/09/05,r	2.0211							
			YTA15449	.6036				3D	0744	4/18/06	
			Ex:3/28/2007			24.0		3B	0734	4/19/06	
03/01/2006 12:32		AmtRec: 4 LITERS	#Containers: 4					Scr:	Alpha: 5.25E-04 uCi/Sa	Beta: 1.86E-03 uCi/Sa	
8 H0PM2-1-AC		1008.50g,in	SRTB13356	1.398							
J6C060211-2-SAMP			04/03/06,pd					3"	1403	4/15/06	
			11/09/05,r	2.0088							
			YTA15450	.6960				4N	0744	4/18/06	
			Ex:3/28/2007			24.0		3C	0734	4/19/06	
03/01/2006 12:32		AmtRec: 4 LITERS	#Containers: 4					Scr:	Alpha: 2.34E-03 uCi/Sa 3.1E-01L	Beta: 2.03E-03 uCi/Sa 1.8E-01L	

4/7/2006 10:49:57 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

Report Due: 04/20/2006

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

Balance Id:1120482733,01
Pipet #: NA
Sep1 DT/Tm Tech: 4-8-06 5:01
Sep2 DT/Tm Tech: 4-17-06 11:55
Prep Tech: ,WAGNERJ

Batch: 6071058 **WATER** **pCi/L** **PM, Quote: HC , 57671**
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
9 H0R56-1-AA J6C070360-1-SAMP		1010.80g,in	SRTB13357 04/03/06,pd 11/09/05,r	1.391				9"	1444	4/10/06	
				2.0273			30				
			YTA15451	.6861				4B	0744	4/18/06	
			Ex:3/28/2007			24.1	100	3D	0734	4/19/06	
03/06/2006 11:17		AmtRec: 3 LITERS		#Containers: 3				Scr:	Alpha: -1.28E-04 uCi/Sa		Beta: 4.04E-04 uCi/Sa
10 H0R56-1-AC-X J6C070360-1-DUP		1010.80g,in	SRTB13358 04/03/06,pd 11/09/05,r	1.396				3"	1444	4/10/06	
				2.0149							
			YTA15452	.6928				4C	0744	4/18/06	
			Ex:3/28/2007			23.5		4A	0734	4/19/06	
03/06/2006 11:17		AmtRec: 3 LITERS		#Containers: 3				Scr:	Alpha: -1.28E-04 uCi/Sa		Beta: 4.04E-04 uCi/Sa
11 H05F0-1-AA-B J6C120000-58-BLK		1002.20g,in	SRTB13359 04/03/06,pd 11/09/05,r	1.327				9"	1637	4/10/06	
				2.0272							
			YTA15453	.6546				4D	0744	4/18/06	
			Ex:3/28/2007			23.6		4B	0734	4/19/06	
03/06/2006 11:17		AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:
12 H05F0-1-AC-C J6C120000-58-LCS		1004.10g,in	SRSG1210 03/13/06,pd 09/06/05,r	1.476				3"	1637	4/10/06	
				2.0029							
			YTA15454	.7369				4A	0931	4/18/06	
			Ex:3/28/2007			23.3		4C	0734	4/19/06	
03/06/2006 11:17		AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:

4/19/2006 3:32:28 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/19/2005, 4/24/2006, Batch: '6071058', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6071058						
AC		**CalcC**	**WAGNERJ**	4/7/2006 10:19:15		
SC			wagarr	IsBatched	3/12/2006 2:41:04 PM	ICOC_RADCALC v4.8.18
SC			WAGNERJ	InPrep	4/7/2006 10:19:15 AM	RICH-RC-5016 REVISION 6
SC			WAGNERJ	Prep1C	4/7/2006 10:51:33 AM	RICH-RC-5016 REVISION 6
SC			FABREM	InSep1	4/7/2006 11:04:53 AM	RICH-RC-5006 REVISION 6
SC			FABREM	Sep1C	4/10/2006 11:28:40 AM	RICH-RC-5006 REVISION 6
SC			BlackCL	InCnt1	4/10/2006 11:46:19 AM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	Cnt1C	4/10/2006 6:26:30 PM	RICH-RD-0007 REVISION 5
SC			FABREM	InSep2	4/11/2006 9:15:12 AM	RICH-RC-5071 REVISION 4
SC			FABREM	Sep2C	4/17/2006 5:41:29 PM	RICH-RC-5071 REVISION 4
SC			DAWKINSO	InCnt2	4/17/2006 6:13:37 PM	RICH-RD-0003 REVISION 4
SC			BlackCL	CalcC	4/19/2006 8:50:32 AM	RICH-RD-0003 REVISION 4
AC			**WAGNERJ**	4/7/2006 10:51:33		
AC			**FABREM**	4/7/2006 11:04:53		
AC			**FABREM**	4/10/2006 11:28:40		
AC			**BlackCL**	4/10/2006 11:46:19		
AC			**DAWKINSO**	4/10/2006 6:26:30 PM		
AC			**FABREM**	4/11/2006 9:15:12		
AC			**FABREM**	4/17/2006 5:41:29 PM		
AC			**DAWKINSO**	4/17/2006 6:13:37 PM		
AC			**BlackCL**	4/19/2006 8:50:32		

AC: Accepting Entry; SC: Status Change

4/13/2006 9:06:26 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Report Due: 04/20/2006

Balance Id:1120482733
Pipet #: N/A
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech: WAGNERJ Scott

Batch: 6071062 **WATER** **pCi/L** **PM, Quote: HC , 57671**
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 H0PLV-1-AE J6C060202-1-SAMP 03/01/2006 10:42		2002.40g,in AmtRec: 6 LITERS #Containers: 6			100	100	G12	2035	4/13/06 Scr: Alpha: 6.81E-03 uCi/Sa 2.4E-01L Beta: 1.55E-02 uCi/Sa 5.2E-02L	
2 H0PL2-1-AE J6C060202-2-SAMP 03/01/2006 12:17		2052.00g,in AmtRec: 6 LITERS #Containers: 6				100	G10	2036	Scr: Alpha: 1.69E-03 uCi/Sa Beta: 1.88E-03 uCi/Sa	
3 H0PL2-1-AH-X J6C060202-2-DUP 03/01/2006 12:17		1852.00g,in AmtRec: 6 LITERS #Containers: 6				100	G11	2037	Scr: Alpha: 1.69E-03 uCi/Sa Beta: 1.88E-03 uCi/Sa	
4 H0PL3-1-AE J6C060202-3-SAMP 03/01/2006 11:53		1996.70g,in AmtRec: 6 LITERS #Containers: 6				100	G13	2038	Scr: Alpha: 7.11E-04 uCi/Sa Beta: 2.36E-03 uCi/Sa	
5 H05F4-1-AA-B J6C120000-62-BLK 03/01/2006 12:17		2001.20g,in AmtRec: #Containers: 1				100	G12	2305	Scr: Alpha: Beta:	
6 H05F4-1-AC-C J6C120000-62-LCS 03/01/2006 12:17		2006.20g,in AmtRec: #Containers: 1	QCAG1186 03/15/06,pd 03/07/05,r			100	G13		Scr: Alpha: Beta:	

4/19/2006 3:28:28 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/19/2005, 4/24/2006, Batch: '6071062', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6071062						
AC		**CalcC**	**WAGNERJ**	4/10/2006 2:28:18 PM		
SC			wagarr	IsBatched	3/12/2006 2:41:04 PM	ICOC_RADCALC v4.8.18
SC			WAGNERJ	InPrep	4/10/2006 2:28:18 PM	RICH-RC-5017 REVISION 5
SC			WAGNERJ	Prep1C	4/10/2006 2:39:54 PM	RICH-RC-5017 REVISION 5
SC			ScottM	InPrep2	4/11/2006 11:00:54 AM	RICH-RC-5017 REVISION 4
SC			ScottM	Prep2C	4/13/2006 3:56:10 PM	RICH-RC-5017 REVISION 4
SC			DAWKINSO	InCnt1	4/13/2006 6:27:47 PM	RICH-RD-0007 REVISION 5
SC			StringerR	CalcC	4/14/2006 11:45:15 AM	RICH-RD-0007 REVISION 5
AC			**WAGNERJ**	4/10/2006 2:39:54 PM		
AC			**ScottM**	4/11/2006 11:00:54		
AC			**ScottM**	4/11/2006 11:02:18		
AC			**ScottM**	4/13/2006 3:56:10 PM		
AC			**DAWKINSO**	4/13/2006 6:27:47 PM		
AC			**StringerR**	4/14/2006 11:45:15		
AC			**StringerR**	4/14/2006 11:57:25		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Grp Rec Cnt: 8

ICOCFractions v4.8.18

4/13/2006 8:59:07 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733
Pipet #: N/A

Report Due: 04/20/2006

Sep1 DT/Tm Tech:

Batch: 6071059 WATER pCi/L PM, Quote: HC , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WAGNERJ

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 H0PMT-1-AD J6C060210-2-SAMP 03/01/2006 10:46		1499.20g,in AmtRec: 8 LITERS	#Containers: 8		100	100	G13 Scr:	1848 Alpha: 2.73E-04 uCi/Sa	4/13/06 DD Beta: -5.65E-04 uCi/Sa	
2 H0PMT-1-AG-X J6C060210-2-DUP 03/01/2006 10:46		1509.50g,in AmtRec: 8 LITERS	#Containers: 8			100	G12 Scr:	1848 Alpha: 2.73E-04 uCi/Sa	Beta: -5.65E-04 uCi/Sa	
3 H05F1-1-AA-B J6C120000-59-BLK 03/01/2006 10:46		1504.10g,in AmtRec:	#Containers: 1			100	G10 Scr:	1849 Alpha:	Beta:	
4 H05F1-1-AC-C J6C120000-59-LCS 03/01/2006 10:46		1502.20g,in AmtRec:	QCAG1187 03/15/06,pd 03/07/05,r #Containers: 1			100	G11 Scr:	1850 Alpha:	Beta:	

Comments:

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

H0PMT1AD-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:						

H05F11AA-BLK:

Co-60	RDL:2.50E+01	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:1.50E+01	pCi/L	LCL:	UCL:	RPD:

4/19/2006 3:30:39 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/19/2005, 4/24/2006, Batch: '6071059', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6071059						
AC		**CalcC**	**WAGNERJ**	4/10/2006 6:25:55 PM		
SC			wagarr	IsBatched	3/12/2006 2:41:04 PM	ICOC_RADCALC v4.8.18
SC			WAGNERJ	InPrep	4/10/2006 6:25:55 PM	RICH-RC-5017 REVISION 5
SC			WAGNERJ	Prep1C	4/11/2006 11:30:40 AM	RICH-RC-5017 REVISION 5
SC			ScottM	InPrep2	4/11/2006 1:46:41 PM	RICH-RC-5017 REVISION 4
SC			ScottM	Prep2C	4/13/2006 3:56:25 PM	RICH-RC-5017 REVISION 4
SC			DAWKINSO	InCnt1	4/13/2006 5:07:53 PM	RICH-RD-0007 REVISION 5
SC			DAWKINSO	CalcC	4/13/2006 8:14:20 PM	RICH-RD-0007 REVISION 5
AC			**WAGNERJ**	4/11/2006 11:30:40		
AC			**ScottM**	4/11/2006 1:46:41 PM		Revision 4
AC			**ScottM**	4/11/2006 1:46:56 PM		
AC			**ScottM**	4/13/2006 3:56:25 PM		
AC			**DAWKINSO**	4/13/2006 5:07:53 PM		
AC			**DAWKINSO**	4/13/2006 8:14:20 PM		

AC: Accepting Entry; SC: Status Change

4/7/2006 2:18:20 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

Report Due: 04/20/2006 WO4873

Sep1 DT/Tm Tech:

Batch: 6071064 WATER pCi/L PM, Quote: HC , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WAGNERJ

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 H0DG0-1-AA J6B280376-1-SAMP 02/28/2006 10:19	AmtRec: 20ML,2X500P,2*4LP	3807.50g,in	ITA5129 03/16/06	IPA #Containers: 5	36.0	100	L2 Scr:	1605 Alpha: 2.38E-03 uCi/Sa	4/17/06	Beta: -9.65E-05 uCi/Sa
2 H0DH3-1-AA J6B280376-2-SAMP 02/28/2006 11:36	AmtRec: 20ML,2X500P,2X4LP	3857.70g,in	ITA5130 03/16/06	#Containers: 5	35.1	100	L4 Scr:	1606 Alpha: 7.97E-04 uCi/Sa		Beta: -6.73E-04 uCi/Sa
3 H0DH6-1-AA J6B280376-3-SAMP 02/28/2006 08:42	AmtRec: 20ML,2X500P,2X4LP	3931.20g,in	ITA5131 04/06/06	#Containers: 5	35.4	100	L5 Scr:	1607 Alpha: 9.48E-04 uCi/Sa		Beta: -1.26E-03 uCi/Sa
4 H0DH7-1-AA J6B280376-4-SAMP 02/28/2006 09:23	AmtRec: 20ML,2X500P,2X4LP	3911.70g,in	ITA5132 04/06/06	#Containers: 5	35.6	100	L2 Scr:	1816 Alpha: 3.47E-03 uCi/Sa		Beta: -1.54E-03 uCi/Sa
5 H0DH9-1-AC J6B280376-5-SAMP 02/28/2006 10:29	AmtRec: 20ML,2X500P,LP,2X4LP	3931.00g,in	ITA5133 04/06/06	#Containers: 6	35.4	100	L4 Scr:	1818 Alpha: 3.91E-03 uCi/Sa		Beta: -1.50E-03 uCi/Sa
6 H0DJA-1-AC J6B280376-6-SAMP 02/28/2006 11:42	AmtRec: 20ML,2X500P,LP,2X4LP	3705.10g,in	ITA5134 04/06/06	#Containers: 6	35.6	100	L5 Scr:	1821 Alpha: 2.23E-03 uCi/Sa		Beta: -9.65E-04 uCi/Sa
7 H0DJC-1-AC J6B280380-1-SAMP 02/28/2006 12:28	AmtRec: 20ML,2X500P,LP,2X4LP	3896.30g,in	ITA5135 04/06/06	#Containers: 6	35.0	100	L2 Scr:	2004 Alpha: 1.26E-03 uCi/Sa		Beta: -1.07E-04 uCi/Sa

4/7/2006 2:18:22 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Balance Id:1120482733

Pipet #: _____

Report Due: 04/20/2006

Sep1 DT/Tm Tech:

Batch: 6071064 **WATER** **pCi/L** **PM, Quote: HC , 57671**

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,WAGNERJ

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 H0DJD-1-AC J6B280380-2-SAMP 02/28/2006 09:44	AmtRec: 20ML,LP,2X4LP	3914.40g,in	ITA5136 04/06/06	IFA #Containers: 4	36.0	100	L3 4/17/06 OR Scr:	2006 Alpha: 4.56E-04 uCi/Sa	4/17/06 OR Beta: 2.89E-04 uCi/Sa	
9 H0DJE-1-AC J6B280380-3-SAMP 02/28/2006 08:57	AmtRec: 20ML,500P,LP,2X4LP	3928.50g,in	ITA5137 04/06/06	#Containers: 5	36.5	100	L5 Scr:	↓ Alpha: -1.28E-03 uCi/Sa	Beta: 2.64E-03 uCi/Sa	
10 H0DJG-1-AA J6B280380-4-SAMP 02/28/2006 11:07	AmtRec: 20ML,2X500P,2X4LP	3907.10g,in	ITA5138 04/06/06	#Containers: 5	36.0	100	L2 Scr:	2155 Alpha: -1.23E-03 uCi/Sa	Beta: 1.25E-03 uCi/Sa	
11 H0DJG-1-AE-X J6B280380-4-DUP 02/28/2006 11:07	AmtRec: 20ML,2X500P,2X4LP	3884.20g,in	ITA5139 04/06/06	#Containers: 5	36.0	100	L4 Scr:	↓ Alpha: -1.23E-03 uCi/Sa	Beta: 1.25E-03 uCi/Sa	
12 H05F6-1-AA-B J6C120000-64-BLK 02/28/2006 11:07	AmtRec:	4000.20g,in	ITA5140 04/06/06	#Containers: 1	35.9	100	L5 Scr:	2156 Alpha:	Beta:	
13 H05F6-1-AC-C J6C120000-64-LCS 02/28/2006 11:07	AmtRec:	4000.00g,in	ISD0631 02/16/06,pd 11/24/04,r #Containers: 1		38.4	100	L2 Scr:	2341 Alpha:	Beta:	

4/19/2006 3:25:39 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/19/2005, 4/24/2006, Batch: '6071064', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6071064						
AC		**CalcC**	**WAGNERJ**	4/7/2006 10:52:44		
SC			wagarr	IsBatched	3/12/2006 2:41:04 PM	ICOC_RADCALC v4.8.18
SC			WAGNERJ	InPrep	4/7/2006 10:52:44 AM	RICH-RC-5016 REVISION 6
SC			WAGNERJ	Prep1C	4/7/2006 2:20:41 PM	RICH-RC-5016 REVISION 6
SC			NortonJ	InSep1	4/10/2006 8:01:45 AM	RICH-RC-5025 REVISION3
SC			NortonJ	Sep1C	4/17/2006 2:13:54 PM	RICH-RC-5025 REVISION3
SC			DAWKINSO	InCnt1	4/17/2006 2:39:24 PM	RICH-RD-0007 REVISION 5
SC			BlackCL	CalcC	4/18/2006 7:11:05 AM	RICH-RD-0007 REVISION 5
AC			**WAGNERJ**	4/7/2006 2:20:41 PM		
AC			**NortonJ**	4/10/2006 8:01:45		
AC			**NortonJ**	4/17/2006 2:13:54 PM		
AC			**DAWKINSO**	4/17/2006 2:39:24 PM		
AC			**BlackCL**	4/18/2006 7:11:05		

AC: Accepting Entry; SC: Status Change

4/7/2006 5:24:57 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

Report Due: 04/20/2006 W04873

Sep1 DT/Tm Tech:

Batch: 6071065 WATER pCi/L **PM, Quote: HC , 57671**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WAGNERJ

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 H0DG0-1-AC J6B280376-1-SAMP			125.90g,in	125.90g		60				
02/28/2006 10:19			AmtRec: 20ML,2X500P,2*4LP	#Containers: 5				Scr:	Alpha: 2.38E-03 uCi/Sa	Beta: -9.65E-05 uCi/Sa
2 H0DG0-1-AE-X J6B280376-1-DUP			125.30g,in	125.30g		60				
02/28/2006 10:19			AmtRec: 20ML,2X500P,2*4LP	#Containers: 5				Scr:	Alpha: 2.38E-03 uCi/Sa	Beta: -9.65E-05 uCi/Sa
3 H0DH3-1-AC J6B280376-2-SAMP			127.30g,in	127.30g		60				
02/28/2006 11:36			AmtRec: 20ML,2X500P,2X4LP	#Containers: 5				Scr:	Alpha: 7.97E-04 uCi/Sa	Beta: -6.73E-04 uCi/Sa
4 H0DH3-1-AE-S J6B280376-2-MS			126.00g,in	126.00g	TCSG1574 02/09/06,pd 01/10/06,r	60				
02/28/2006 11:36			AmtRec: 20ML,2X500P,2X4LP	#Containers: 5				Scr:	Alpha: 7.97E-04 uCi/Sa	Beta: -6.73E-04 uCi/Sa
5 H0DH6-1-AC J6B280376-3-SAMP			130.30g,in	130.30g		60				
02/28/2006 08:42			AmtRec: 20ML,2X500P,2X4LP	#Containers: 5				Scr:	Alpha: 9.48E-04 uCi/Sa	Beta: -1.26E-03 uCi/Sa
6 H0DH7-1-AC J6B280376-4-SAMP			126.70g,in	126.70g		60				
02/28/2006 09:23			AmtRec: 20ML,2X500P,2X4LP	#Containers: 5				Scr:	Alpha: 3.47E-03 uCi/Sa	Beta: -1.54E-03 uCi/Sa
7 H0DH9-1-AD J6B280376-5-SAMP			127.70g,in	127.70g		60				
02/28/2006 10:29			AmtRec: 20ML,2X500P,LP,2X4LP	#Containers: 6				Scr:	Alpha: 3.91E-03 uCi/Sa	Beta: -1.50E-03 uCi/Sa

4/7/2006 5:24:59 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: _____

Report Due: 04/20/2006

Sep1 DT/Tm Tech:

Batch: 6071065 WATER pCi/L PM, Quote: HC , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WAGNERJ

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 H0DJA-1-AD J6B280376-6-SAMP 02/28/2006 11:42			127.20g,in	127.20g		60				
	AmtRec: 20ML,2X500P,LP,2X4LP		#Containers: 6				Scr:	Alpha: 2.23E-03 uCi/Sa		Beta: -9.65E-04 uCi/Sa
9 H0DJC-1-AD J6B280380-1-SAMP 02/28/2006 12:28			125.40g,in	125.40g		60				
	AmtRec: 20ML,2X500P,LP,2X4LP		#Containers: 6				Scr:	Alpha: 1.26E-03 uCi/Sa		Beta: -1.07E-04 uCi/Sa
10 H0DJG-1-AC J6B280380-4-SAMP 02/28/2006 11:07			126.00g,in	126.00g		60				
	AmtRec: 20ML,2X500P,2X4LP		#Containers: 5				Scr:	Alpha: -1.23E-03 uCi/Sa		Beta: 1.25E-03 uCi/Sa
11 H05F7-1-AA-B J6C120000-65-BLK 02/28/2006 10:19			127.60g,in	127.60g		60				
	AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:
12 H05F7-1-AC-C J6C120000-65-LCS 02/28/2006 10:19			128.00g,in	128.00g	TCSE1926 04/04/06,pd 01/10/06,r	60				
	AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:
13 H05F7-1-AD-BN J6C120000-65-IBLK 02/28/2006 10:19						60				
	AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:
14 H05F7-1-AE-BN J6C120000-65-IBLK 02/28/2006 10:19						60				
	AmtRec:		#Containers: 1				Scr:	Alpha:		Beta:

4/7/2006 5:25:01 PM

Sample Preparation/Analysis

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

Report Due: 04/20/2006

Batch: 6071065 **pCi/L**
SEQ Batch, Test: None

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

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: 8/1 C2, 8-4-706

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

H0DG01AC-SAMP Constituent List:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
H0DH31AE-MS:

H05F71AA-BLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
H05F71AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
H05F71AD-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
H05F71AE-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:

H0DG01AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H0DH31AE-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H05F71AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H05F71AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H05F71AD-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H05F71AE-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

4/11/2006 4:53:52 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/11/2005, 4/16/2006, Batch: '6071065', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6071065						
AC		**InCnt1**	**WAGNERJ**	4/7/2006 5:13:48 PM		
SC			wagarr	IsBatched	3/12/2006 2:41:04 PM	ICOC_RADCALC v4.8.18
SC			WAGNERJ	InPrep	4/7/2006 5:13:48 PM	RICH-RC-5016 REVISION 6
SC			WAGNERJ	Prep1C	4/7/2006 5:26:16 PM	RICH-RC-5016 REVISION 6
SC			AntonsonL	Sep1C	4/10/2006 4:49:25 PM	RICH-RC-5078 REVISION 3
SC			DAWKINSO	InCnt1	4/10/2006 5:15:52 PM	RICH-RD-0001 REVISION 3
AC			**WAGNERJ**	4/7/2006 5:26:16 PM		
AC			**AntonsonL**	4/10/2006 4:49:25 PM		
AC			**DAWKINSO**	4/10/2006 5:15:52 PM		

AC: Accepting Entry; SC: Status Change

3/12/2006 2:38:57 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Report Due: 04/20/2006 W04873

Batch: 6071057 **WATER** **pCi/L** **PM, Quote: HC , 57671**
SEQ Batch, Test: None

Balance Id: 124445
Pipet #:
Sep1 DT/Tm Tech: 3-27-06 DM
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 H0DH9-1-AA J6B280376-5-SAMP 02/28/2006 10:29	AmtRec: 20ML,2X500P,LP,2X4LP	#Containers: 6				Scr:	Alpha: 3.91E-03 uCi/Sa	Beta: -1.50E-03 uCi/Sa
2 H0DJA-1-AA J6B280376-6-SAMP 02/28/2006 11:42	AmtRec: 20ML,2X500P,LP,2X4LP	#Containers: 6				Scr:	Alpha: 2.23E-03 uCi/Sa	Beta: -9.65E-04 uCi/Sa
3 H0DJC-1-AA J6B280380-1-SAMP 02/28/2006 12:28	AmtRec: 20ML,2X500P,LP,2X4LP	#Containers: 6				Scr:	Alpha: 1.26E-03 uCi/Sa	Beta: -1.07E-04 uCi/Sa
4 H0DJD-1-AA J6B280380-2-SAMP 02/28/2006 09:44	AmtRec: 20ML,LP,2X4LP	#Containers: 4				Scr:	Alpha: 4.56E-04 uCi/Sa	Beta: 2.89E-04 uCi/Sa
5 H0DJE-1-AA J6B280380-3-SAMP 02/28/2006 08:57	AmtRec: 20ML,500P,LP,2X4LP	#Containers: 5				Scr:	Alpha: -1.28E-03 uCi/Sa	Beta: 2.64E-03 uCi/Sa
6 H0PLV-1-AA J6C060202-1-SAMP 03/01/2006 10:42	AmtRec: 6 LITERS	#Containers: 6				Scr:	Alpha:	Beta:
7 H0PL2-1-AG J6C060202-2-SAMP 03/01/2006 12:17	AmtRec: 6 LITERS	#Containers: 6				Scr:	Alpha:	Beta:

3/12/2006 2:38:58 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Report Due: 04/20/2006

Batch: 6071057 **WATER** **pCi/L** **PM, Quote: HC , 57671**
SEQ Batch, Test: None

Balance Id: 12415
Pipet #:
Sep1 DT/Tm Tech: 3-27-06
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:
8 H0PL3-1-AA J6C060202-3-SAMP 03/01/2006 11:53		AmtRec: 6 LITERS	#Containers: 6			Scr:	Alpha:	Beta:
9 H0PMD-1-AE J6C060207-1-SAMP 03/01/2006 10:01		AmtRec: 5 LITERS	#Containers: 5			Scr:	Alpha:	Beta:
10 H0PMK-1-AE J6C060209-1-SAMP 03/01/2006 12:20		AmtRec: 5 LITERS	#Containers: 5			Scr:	Alpha:	Beta:
11 H0PMT-1-AF J6C060210-2-SAMP 03/01/2006 10:46		AmtRec: 8 LITERS	#Containers: 8			Scr:	Alpha:	Beta:
12 H0PM1-1-AA J6C060211-1-SAMP 03/01/2006 12:32		AmtRec: 4 LITERS	#Containers: 4			Scr:	Alpha:	Beta:
13 H0PM1-1-AD-X J6C060211-1-DUP 03/01/2006 12:32		AmtRec: 4 LITERS	#Containers: 4			Scr:	Alpha:	Beta:
14 H0PM2-1-AA J6C060211-2-SAMP 03/01/2006 12:32		AmtRec: 4 LITERS	#Containers: 4			Scr:	Alpha:	Beta:

3/12/2006 2:38:58 PM

Sample Preparation/Analysis

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

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 3-27-06
Sep2 DT/Tm Tech:
Prep Tech:

Report Due: 04/20/2006

Batch: 6071057 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:
15 H05FX-1-AA-B J6C120000-57-BLK 03/01/2006 12:32	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
16 H05FX-1-AC-C J6C120000-57-LCS 03/01/2006 12:32	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
17 H05FX-1-AD-BX J6C120000-57-MBLK 03/01/2006 12:32	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
18 H05FX-1-AE-CM J6C120000-57-MLCS 03/01/2006 12:32	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
19 H05FX-1-AF-BN J6C120000-57-IBLK 03/01/2006 12:32	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
20 H05FX-1-AG-BN J6C120000-57-IBLK 03/01/2006 12:32	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
21 H05FX-1-AH-BN J6C120000-57-IBLK 03/01/2006 12:32	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

3/12/2006 2:39:05 PM

Sample Preparation/Analysis

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

Balance Id: 12445
Pipet #:
Sep1 DT/Tm Tech: 3-27-06 am
Sep2 DT/Tm Tech:
Prep Tech:

Report Due: 04/20/2006

Batch: 6071057 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:

Comments:

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

H0DH91AA-SAMP Constituent List:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
H05FX1AA-BLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
H05FX1AC-LCS:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
H05FX1AD-MBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
H05FX1AE-MLCS:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
H05FX1AF-IBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
H05FX1AG-IBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
H05FX1AH-IBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:

H0DH91AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H05FX1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H05FX1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H05FX1AD-MBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H05FX1AE-MLCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H05FX1AF-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H05FX1AG-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H05FX1AH-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

3/30/2006 9:28:42 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/30/2005, 4/4/2006, Batch: '6071057', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6071057						
AC		**CalcC**	**McDowellD**	3/20/2006 3:09:00 PM		
SC			wagarr	IsBatched	3/12/2006 2:41:04 PM	ICOC_RADCALC v4.8.18
SC			McDowellD	InSep1	3/20/2006 3:09:00 PM	RICH-RC-5007 REVISION 6
SC			McDowellD	Sep1C	3/27/2006 2:41:36 PM	RICH-RC-5007 REVISION 6
SC			DAWKINSO	InCnt1	3/27/2006 3:46:16 PM	RICH-RD-0001 REVISION 3
SC			BlackCL	CalcC	3/29/2006 8:07:54 AM	RICH-RD-0001 REVISION 3
AC			**McDowellD**	3/27/2006 2:41:36 PM		
AC			**DAWKINSO**	3/27/2006 3:46:16 PM		
AC			**BlackCL**	3/29/2006 8:07:54		

AC: Accepting Entry; SC: Status Change

4/7/2006 5:53:59 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: 240

Report Due: 04/20/2006 W04873

Sep1 DT/Tm Tech:

Batch: 6071063 **WATER** **ug/L**

PM, Quote: HC , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WAGNERJ

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 H0DG0-1-AD ad1 J6B280376-1-SAMP 02/28/2006 10:19	Final Vol 10.0ml	29.60g,in	AmtRec: 20ML,2X500P,2*4LP	#Containers: 5	Scr:	Alpha: 2.38E-03 uCi/Sa	Beta: -9.65E-05 uCi/Sa	
2 H0DH3-1-AD J6B280376-2-SAMP 02/28/2006 11:36		29.30g,in	AmtRec: 20ML,2X500P,2X4LP	#Containers: 5	Scr:	Alpha: 7.97E-04 uCi/Sa	Beta: -6.73E-04 uCi/Sa	
3 H0DH6-1-AD J6B280376-3-SAMP 02/28/2006 08:42		30.00g,in	AmtRec: 20ML,2X500P,2X4LP	#Containers: 5	Scr:	Alpha: 9.48E-04 uCi/Sa	Beta: -1.26E-03 uCi/Sa	
4 H0DH7-1-AD ad1 J6B280376-4-SAMP 02/28/2006 09:23		26.10g,in	AmtRec: 20ML,2X500P,2X4LP	#Containers: 5	Scr:	Alpha: 3.47E-03 uCi/Sa	Beta: -1.54E-03 uCi/Sa	
5 H0DH9-1-AE ae1 J6B280376-5-SAMP 02/28/2006 10:29		27.30g,in	AmtRec: 20ML,2X500P,LP,2X4LP	#Containers: 6	Scr:	Alpha: 3.91E-03 uCi/Sa	Beta: -1.50E-03 uCi/Sa	
6 H0DJA-1-AE J6B280376-6-SAMP 02/28/2006 11:42		26.70g,in	AmtRec: 20ML,2X500P,LP,2X4LP	#Containers: 6	Scr:	Alpha: 2.23E-03 uCi/Sa	Beta: -9.65E-04 uCi/Sa	
7 H0DJC-1-AE J6B280380-1-SAMP 02/28/2006 12:28		28.40g,in	AmtRec: 20ML,2X500P,LP,2X4LP	#Containers: 6	Scr:	Alpha: 1.26E-03 uCi/Sa	Beta: -1.07E-04 uCi/Sa	

4/7/2006 5:54:00 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

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

Pipet #: 240

Report Due: 04/20/2006

Sep1 DT/Tm Tech:

Batch: 6071063 **WATER** **ug/L** **PM, Quote: HC , 57671**
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,WAGNERJ

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 H0DJC-1-AF-X J6B280380-1-DUP 02/28/2006 12:28	Final Vol 10.0 ml	25.70g,in AmtRec: 20ML,2X500P,LP,2X4LP #Containers: 6				Scr:	Alpha: 1.26E-03 uCi/Sa	Beta: -1.07E-04 uCi/Sa
9 H0DJE-1-AD J6B280380-3-SAMP 02/28/2006 08:57		30.90g,in AmtRec: 20ML,500P,LP,2X4LP #Containers: 5				Scr:	Alpha: -1.28E-03 uCi/Sa	Beta: 2.64E-03 uCi/Sa
10 H0DJE-1-AE-S J6B280380-3-MS 02/28/2006 08:57		25.30g,in AmtRec: 20ML,500P,LP,2X4LP #Containers: 5	UNSF3059 04/06/06,pd 09/16/04,r			Scr:	Alpha: -1.28E-03 uCi/Sa	Beta: 2.64E-03 uCi/Sa
11 H0DJG-1-AD J6B280380-4-SAMP 02/28/2006 11:07		26.70g,in AmtRec: 20ML,2X500P,2X4LP #Containers: 5				Scr:	Alpha: -1.23E-03 uCi/Sa	Beta: 1.25E-03 uCi/Sa
12 H05F5-1-AA-B a a l J6C120000-63-BLK ✓ 02/28/2006 12:28		26.50g,in AmtRec: #Containers: 1				Scr:	Alpha:	Beta:
13 H05F5-1-AC-C J6C120000-63-LCS 02/28/2006 12:28		27.60g,in AmtRec: #Containers: 1	UNSF3060 04/06/06,pd 09/16/04,r			Scr:	Alpha:	Beta:
14 H05F5-1-AD-C J6C120000-63-LCS 02/28/2006 12:28		26.50g,in AmtRec: #Containers: 1	UNSC1120 04/06/06,pd 09/17/04,r			Scr:	Alpha:	Beta:

4/7/2006 5:54:01 PM

Sample Preparation/Analysis

Balance Id:1120482733

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

Pipet #: _____

Report Due: 04/20/2006

Sep1 DT/Tm Tech:

Batch: 6071063 ug/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,WAGNERJ

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: PHL2.24706

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

H0DG01AD-SAMP Constituent List:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
H0DJE1AE-MS:

H05F51AA-BLK:
Uranium RDL:1.44E-01 ug/L LCL: UCL: RPD:
H05F51AC-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20
H05F51AD-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20

H0DG01AD-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H0DJE1AE-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H05F51AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H05F51AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
H05F51AD-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

4/19/2006 11:10:24 AM

ICOC Fraction Transfer/Status Report

ByDate: 4/19/2005, 4/24/2006, Batch: '6071063', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
6071063						
AC		**Cnt1C**	**WAGNERJ**	4/7/2006 5:38:25 PM		
SC			wagarr	IsBatched	3/12/2006 2:41:04 PM	ICOC_RADCALC v4.8.18
SC			WAGNERJ	InPrep	4/7/2006 5:38:25 PM	RICH-RC-5015 REVISION 4
SC			WAGNERJ	Prep1C	4/7/2006 5:55:44 PM	RICH-RC-5015 REVISION 4
SC			ScottM	InPrep2	4/11/2006 11:04:27 AM	RICH-RC-5015 REVISION 4
SC			ScottM	Prep2C	4/12/2006 4:00:04 PM	RICH-RC-5015 REVISION 4
SC			BarbosaH	Cnt1C	4/18/2006 1:14:24 PM	RICH-RC-5058 REVISION 7
AC			**WAGNERJ**	4/7/2006 5:55:44 PM		
AC			**ScottM**	4/11/2006 11:04:27		
AC			**ScottM**	4/12/2006 4:00:04 PM		
AC			**BarbosaH**	4/18/2006 1:14:24 PM		

AC: Accepting Entry; SC: Status Change