

0074380

SAF-RC-082
RCBRA-Inter-Areas Shoreline
Assessment – Sediment Sampling
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Jackie Queen H4-22

KW 11/5/07
Initials/Date

COMMENTS:

SDG J00141

SAF-RC-082

Rad only

Chem only

Rad & Chem

Complete

Partial

Waste Site: RCBRA 128F2 Aq Sediment

RECEIVED
NOV 14 2007
EDMC

Analytical Data Package Prepared For
Washington Closure Hanford



Radiochemical Analysis By

TAL Richland

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

Assigned Laboratory Code: STLRL

Data Package Contains 18 Pages

Report No.: 37284

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
J00141	RC-082	J15PB9	J7J010160-1	J71X71AA	9J71X710	7275505

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Washington Hanford Closure
2620 Fermi Avenue
Richland, WA 99354

November 5, 2007

Attention: Joan Kessner

SAF Number	:	RC-082
Date SDG Closed	:	October 1, 2007
Number of Samples	:	One (1)
Sample Type	:	Other Solid
SDG Number	:	J00141
Data Deliverable	:	45 -Day / Summary

CASE NARRATIVE

I. Introduction

On October 1, 2007 one other solid sample was received at TestAmerica Richland (TARL) for chemistry analysis. Upon receipt, the sample was assigned the following laboratory ID numbers to correspond with the Washington Closure Hanford (WCH) specific IDs:

<u>WCH ID#</u>	<u>TARL ID#</u>	<u>MATRIX</u>	<u>DATE OF RECEIPT</u>
J15PB9	J71X7	OTHER SOLID	10/01/07

II. Sample Receipt

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

III. Analytical Results/Methodology

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

Chemical Analysis
Hexavalent Chromium by EPA method 7196A

Washington Closure Hanford
November 5, 2007

IV. Quality Control

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

QC and sample results are reported in the same units.

V. Comments

Chemical Analysis

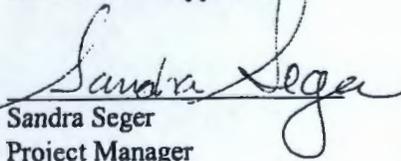
Hexavalent Chromium by EPA method 7196A:

The original analysis failed, however TestAmerica Richland was instructed by the client to report these results as a preliminary report. The preliminary report was emailed on October 18, 2007.

Sample J15PB9 was reanalyzed. The final report includes only the reanalysis results. Except as noted, the LCS, batch blank, sample, sample duplicate (J15PB9) and sample matrix spike (J15PB9) results are within contractual requirements.

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

Reviewed and approved,


Sandra Seger
Project Manager

Drinking Water Method Cross References

DRINKING WATER ASTM METHOD CROSS REFERENCES		
Referenced Method	Isotope(s)	STL Richland's SOP number
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 00-02	Gross Alpha (Coprecipitation)	RICH-RC-5021
EPA 903.0	Total Alpha Radium (Ra-226)	RICH-RC-5027
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr-89/90	RICH-RC-5006
ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007

Uncertainty Estimation

Test America 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, $R = \text{constants} * f(x,y,z,\dots)$. 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/\sqrt{n}), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

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

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation $(\text{Result}/\text{Expected})-1$ 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%. $Lc = (1.645 * \text{Sqrt}(2 * (\text{BkgrndCnt}/\text{BkgrndCntMin})/\text{SCntMin})) * (\text{ConvFct}/(\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol})) * \text{IngrFct}$. 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%. $MDC = (4.65 * \text{Sqrt}((\text{BkgrndCnt}/\text{BkgrndCntMin})/\text{SCntMin}) + 2.71/\text{SCntMin}) * (\text{ConvFct}/(\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol})) * \text{IngrFct}$. 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 = $(S-D)/[\text{sqrt}(\text{TPUs}^2 + \text{TPUd}^2)]$ 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.

Sample Results Summary

Date: 05-Nov-07

TAL Richland STLRL

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

Report No. : 37284

SDG No: J00141

Batch	Client Id Work Order	Parameter	Result +/- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
7275505	7196_CR6								
	J15PB9								
	J71X71AA	HEXCHROME	8.41E+00 +/- 0.00E+00		mg/kg	N/A	3.50E-01	3.50E-01	
	J15PB9 DUP								
	J71X71AD	HEXCHROME	9.46E+00 +/- 0.00E+00		mg/kg	N/A	3.50E-01	3.50E-01	11.8
No. of Results: 2									

TAL Richland RPD - Relative Percent Difference.

rptSTLRchSaSum
mary2 V5.1.4
A2002

**QC Results Summary
TAL Richland STLR**

Date: 05-Nov-07

Ordered by Method, Batch No, QC Type,.

Report No. : 37284

SDG No.: J00141

Batch	Work Order	Parameter	Result +/- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC MDA
7196_CR6									
7275505	MATRIX SPIKE, J15PB9 MS								
	J71X71AC	HEXCHROME	1.20E+01 +/- 0.00E+00		mg/kg	N/A	117%	0.2	3.50E-01
7275505	LCS,								
	J74W41AC	HEXCHROME	1.83E+01 +/- 0.00E+00		mg/kg	N/A	92%	-0.1	3.50E-01
7275505	BLANK QC,								
	J74W41AA	HEXCHROME	3.50E-01 +/- 0.00E+00	U	mg/kg	N/A			3.50E-01
No. of Results: 3									

TAL Richland Bias - (Result/Expected)-1 as defined by ANSI N13.30.
 rptSTLRchQcSummary V5.1.4 A2002 U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM I
SAMPLE RESULTS

Date: 05-Nov-07

Lab Name: TA Richland
Lot-Sample No.: J7J010160-1
Client Sample ID: J15PB9

SDG: J00141
Report No. : 37284
COC No. : RC-082-66

Collection Date: 10/1/2007 11:30:00 AM
Received Date: 10/1/2007 12:40:00 PM
Matrix: OTHER SOLI OTHERSOLID
Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUcert	Analysts, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7275505	7196_CR6				Work Order: J71X71AA		Report DB ID: 9J71X710					
HEXCHROME	8.41E+00			0.0E+00	3.50E-01	mg/kg	N/A	(24.)	10/19/07		2.5	
							3.50E-01	N/A			G	

No. of Results: 1 Comments:

FORM II

Date: 05-Nov-07

DUPLICATE RESULTS

Lab Name: TA Richland
 Lot-Sample No.: J7J010160-1
 Client Sample ID: J15PB9 DUP

SDG: J00141
 Report No.: 37284
 COC No.: RC-082-66

Collection Date: 10/1/2007 11:30:00 AM
 Received Date: 10/1/2007 12:40:00 PM
 Matrix: OTHER SOLI OTHERSOLID

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7275505	7196_CR6			Work Order: J71X71AD		Report DB ID: J71X71AD		Orig Sa DB ID: 9J71X710				
HEXCHROME	9.46E+00			0.0E+00	3.50E-01	mg/kg	N/A	(27.)	10/19/07		2.5	
	8.41E+00			RPD 11.8		3.50E-01		N/A			G	

No. of Results: 1 Comments:

FORM II
BLANK RESULTS

Date: 05-Nov-07

Lab Name: TA Richland
Matrix: OTHER SOLID

SDG: J00141
Report No. : 37284

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC MDA	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7275505	7196_CR6				Work Order: J74W41AA		Report DB ID: J74W41AA					
HEXCHROME	3.50E-01	U		0.0E+00	3.50E-01	mg/kg	N/A	(1.)	10/19/07		2.5	
						3.50E-01		N/A			G	
No. of Results: 1			Comments:									

FORM II
LCS RESULTS

Date: 05-Nov-07

Lab Name: TA Richland
Matrix: OTHER SOLID

SDG: J00141
Report No. : 37284

Parameter	Result	Count Qual	Error (2 s)	Total Uncert(2 s)	MDC MDA	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 7275505	7196_CR6			Work Order: J74W41AC		Report DB ID: J74W41AC							
HEXCHROME	1.83E+01			0.0E+00	3.50E-01	mg/kg	N/A	2.00E+01		92%	10/19/07	2.5	
							Rec Limits:	80	120	-0.1		G	

No. of Results: 1 Comments:

FORM II

Date: 05-Nov-07

MATRIX SPIKE RESULTS

Lab Name: TA Richland

SDG: J00141

Lot-Sample No.: J7J010160-1, J15PB9 MS

Report No. : 37284

Matrix: OTHER SOLI OTHERSOLID

Parameter	SpikeResult, Orig Rst	Count Qual	Error (2 s)	Total Uncert(2 s)	MDC MDA	Rpt Unit, CRDL	Yield	Rec- overy	Exp- ected	Exp Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 7275505	Work Order: J71X71AC			Report DB ID: J71X71AC		Orig Sa DB ID: 9J71X710							
HEXCHROME	1.20E+01			0.0E+00	3.50E-01	mg/kg	N/A	116.81%	1.02E+01		10/19/07	2.5	7196_CR6
	8.41E+00											G	

Number of Results: 1

Comments:



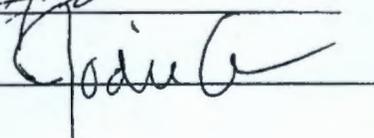
STL

**Richland Laboratory
Data Review Check List
Hexavalent Chromium**

Batch Number(s): 7275505				
Lab Sample Numbers or SDG: J00141				
Method/Test/Parameter: Cr+6 in SOLID / RICH-WC-5005, Rev 8				
Review Item	Yes (✓)	No (✓)	N/A (✓)	2 nd Level Review (✓)
A. Initial Calibration				
1. Performed at required frequency with required number of levels?	✓			/
2. Correlation coefficient within QC limits?	✓			/
3. Initial calibration verification (ICV) analyzed immediately after calibration and results within QC limits?	✓			/
4. Initial calibration blank (ICB) analyzed immediately after ICV and concentrations of all parameters ≤ reporting limit?	✓			/
B. Continuing Calibration				
1. CCV analyzed at required frequency and all parameters within QC limits?	✓			/
2. CCB analyzed at required frequency and all results ≤ reporting limit?	✓			/
C. Sample Analysis				
1. Were any samples with concentrations above the linear range for any parameter diluted and reanalyzed?	✓			/
2. Were all sample holding times met?	✓			/
D. QC Samples				
1. All results for the preparation blank below limits?	✓			/
2. MS or MS/MSD recoveries within QC limits and %RPD (for MSD) acceptable?	✓			/
3. LCS percent recovery within QC limits and %RPD (for LCS) acceptable?	✓			/
4. Analytical spikes within QC limits where applicable?			✓	/
5. ICP only: One serial dilution performed per SDG?			✓	/
6. ICP only: CRDL standard (CRI or CRA) analyzed at required frequency?			✓	/
7. ICP only: Interference check samples (ICSA, ICSAB) and HICAL analyzed at the required frequencies and within QC limits?			✓	/

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

Comments on any "No" response: _____

Analyst: 
 Second-Level Review: 

Date: 10/19/07
 Date: 11/5/07

J7J010160 J00141 Due 10-23-07 11/15/07 KWMINT

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-082-66		Page 1 of 1	
Collector B. TILLER <i>J.F. McJEWINS</i>		Company Contact JOAN KESSNER		Telephone No. 375-4688		Project Coordinator KESSNER, JH		Price Code	
Project Designation RCBRA-Inter-Areas Shoreline Assessment - Sediment		Sampling Location RCBRA ¹²⁷⁸ Aq Sediment		SAF No. RC-082				Data Turnaround 45 Days	
Ice Chest No.		Field Logbook No. EL-1612		COA BESBEA6520		Method of Shipment FED EX			
Shipped To Sewer Trent Incorporated, Richland		Offsite Property No.		Bill of Lading/Air Bill No. see OSPC					
POSSIBLE SAMPLE HAZARDS/REMARKS NONE		Preservation		Cool 4C					
Special Handling and/or Storage COOL 4 C		Type of Container		G/P					
		No. of Container(s)		1					
		Volume		15g					
SAMPLE ANALYSIS				Chromium Hex - 7196					
Sample No.	Matrix *	Sample Date	Sample Time						
J15PB9	OTHER SOLID	10/1/07	1130	X	J7IX7				
CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS				Matrix *	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		S=Soil SE=Sediment SO=Solid SL=Sludge W = Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Time Wk=Wipe L=Liquid V=Vegetation X=Other	
<i>J.F. McJewins</i>		10/1/07 1225		<i>S.E. Bernhart</i>		10-1-07			
<i>S.E. Bernhart</i>		10-1-07		<i>W.L. LAW</i>		10-1-07			
LABORATORY SECTION		Received By		Title				Date/Time	
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By				Date/Time	

Sample Check-in List

Date/Time Received: 10-1-07 12:40

Client: WCH SDG #: J00141 NA [] SAF #: RC-082 NA []

Work Order Number: J7J010160 Chain of Custody # RC-082-66

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [] Yes No []
2. Custody Seals dated and signed? NA [] Yes No []
3. Chain of Custody record present? NA [] Yes No []
4. Cooler Temperature: _____ NA 5. Vermiculite/packing materials is NA Wet [] Dry []
6. Number of samples in shipping container: 1-100G
7. Sample holding times exceeded? NA Yes [] No []
8. Samples have:

<input checked="" type="checkbox"/> Tape <input checked="" type="checkbox"/> Custody Seals	<input checked="" type="checkbox"/> Hazard Labels <input checked="" type="checkbox"/> Appropriate Sample Labels
---	--
9. Samples are:

<input checked="" type="checkbox"/> In Good Condition <input type="checkbox"/> Broken	<input type="checkbox"/> Leaking <input type="checkbox"/> Have Air Bubbles <small>(Only for samples requiring no head space.)</small>
--	---
10. Sample pH taken? SOIL NA pH<2 [] pH>2 [] pH>9 []
11. Sample Location, Sample Collector Listed? *
*For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [] No
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [Signature] Date: 10-1-07

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____

TestAmerica Richland

10/19/2007 8:50:10 AM

127642, Washington Closure Hanford
Bechtel Hanford, Inc.

AnalyDueDate: 11/14/2007

Batch: 7275505 SOLID mg/kg
SEQ Batch, Test: None All Tests: 7275505 DWEA,

Sample Preparation/Analysis

DW Alkaline Digestion by method 3060A
EA Chromium, Hexavalent (7196A)
SI CLIENT: HANFORD

PM, Quote: SS , 27038

Balance Id:

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:



Work Order, Lot, Sample Date/Time	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 J71X7-1-AA	2.5340g									
J7J010160-1-SAMP										
10/01/2007 11:30		AmtRec: 120MLG	#Containers: 1					Scr:	Alpha:	Beta:

2 J71X7-1-AC-S	2.5887g									
J7J010160-1-MS										
10/01/2007 11:30		AmtRec: 120MLG	#Containers: 1					Scr:	Alpha:	Beta:

3 J71X7-1-AD-X	2.5537g									
J7J010160-1-DUP										
10/01/2007 11:30		AmtRec: 120MLG	#Containers: 1					Scr:	Alpha:	Beta:

4 J71X7-1-AE-S	2.5167g	13.1mg								
J7J010160-1-MS										
10/01/2007 11:30		AmtRec: 120MLG	#Containers: 1					Scr:	Alpha:	Beta:

5 J74W4-1-AA-B										
J7J020000-505-BLK										
10/01/2007 11:30		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:

6 J74W4-1-AC-C										
J7J020000-505-LCS										
10/01/2007 11:30		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:

TestAmerica Richland

10/19/2007 8:50:12 AM

Sample Preparation/Analysis

Balance Id: _____

DW Alkaline Digestion by method 3060A
 EA Chromium, Hexavalent (7196A)
 SI CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 11/14/2007

Sep1 DT/Tm Tech: _____

Batch: 7275505 mg/kg
 SEQ Batch, Test: None

Sep2 DT/Tm Tech: _____

Prep Tech: _____



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

Comments:

All Clients for Batch:
 127642, Washington Closure Hanford Bechtel Hanford, Inc. , SS , 27038

J71X71AA-SAMP Constituent List:						
HEXCHROME	RDL:0.35	mg/kg	LCL:80	UCL:120	RPD:20	
J71X71AC-MS Constituent List:						
HEXCHROME	RDL:0.35	mg/kg	LCL:75	UCL:125	RPD:20	
J71X71AE-MS:						
HEXCHROME	RDL:0.35	mg/kg	LCL:75	UCL:125	RPD:20	
J74W41AA-BLK:						
HEXCHROME	RDL:0.35	mg/kg	LCL:	UCL:	RPD:	
J74W41AC-LCS:						
HEXCHROME	RDL:0.35	mg/kg	LCL:80	UCL:120	RPD:20	
J71X71AA-SAMP Calc Info:						
Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B	
J71X71AC-MS Calc Info:						
Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B	
J71X71AE-MS:						
Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B	
J74W41AA-BLK:						
Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B	
J74W41AC-LCS:						
Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B	

Approved By _____ Date: _____