

Analytical Data Package Prepared For  
**CH2M Hill Plateau Remediation**

Radiochemical Analysis By  
**TestAmerica**

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

Assigned Laboratory Code: TARL

Data Package Contains \_\_\_\_\_ Pages

Report No.: 56015

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

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
W06577	F13-017	B2PLK2	J3F210429-1	M063M1AA	9M063M10	3172082
		B2PLK4-A	J3F210429-2	M063Q1AA	9M063Q10	3172082



### Certificate of Analysis

TestAmerica Laboratories, Inc.

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

July 2, 2013

Attention: Scot Fitzgerald

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SAF Number	:	F13-017
Date SDG Closed	:	June 21, 2013
Number of Samples	:	Two (2)
Sample Type	:	Other Liquid
SDG Number	:	W06577
Data Deliverable	:	15 Day / 15 Day Summary

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### CASE NARRATIVE

#### I. Introduction

On June 21, 2013, two other liquid samples were received at TestAmerica (TARL). Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the CH2M specific ID:

<u>CH2M ID#</u>	<u>TARL ID#</u>	<u>MATRIX</u>	<u>DATE OF RECEIPT</u>
B2PLK2	M062R	Other Liquid	6/21/13
B2PLK4-A	M062T	Other Liquid	6/21/13

#### II. Sample Receipt

The samples were received in good condition. Samples were in a 0.1 N KOH solution. The sample technician will process as necessary. TARL was asked to include the total sample size in the final report. The TARL sample receiving technician did not include the received date on the COCs. For more details refer to the SIR (CHPRC Tracking Number: SDR13-192) that is included in this report. No other 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.

CH2M Hill Plateau Remediation Company  
July 2, 2013

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The requested analyses were:

**Chemical Analysis**  
Hexavalent Chromium by EPA method 7196A

#### IV. Quality Control

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

QC and sample results are reported in the same units.

#### V. Comments

##### **Chemical Analysis**

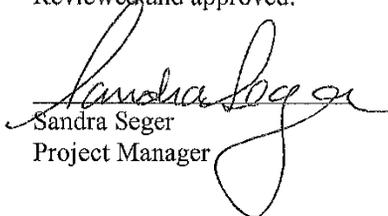
Hexavalent Chromium by EPA method 7196A

Sample B2PLK2 had a total sample size of 400 ml. Sample B2PLK4-A had a total sample size of 392 ml.

The LCS, batch blank, samples, sample duplicate (B2PLK2), sample matrix spike (B2PLK2), and matrix spike duplicate (B2PLK2) 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

**SAMPLE ISSUE RESOLUTION**

**SIR NUM** SDR13-192  
**REV NUM** 0  
**DATE INITIATED** 6/25/2013

**SAMPLE EVENT INFORMATION**

**SAF NUM(S)** F13-017  
**OPERABLE UNIT(S)** 200-ZP-1  
**PROJECT(S)** P&T - 200W  
**SAMPLE EVENT TITLE(S)** 200W Pump & Treat - Emission Sampling  
**LABORATORY** TestAmerica Incorporated, Richland

**SAMPLING INFORMATION**

**NUMBER OF SAMPLES** 2  
**SAMPLE NUMBERS** B2PLK2, B2PLK4A  
**SAMPLE MATRIX** OTHER LIQUID  
**COLLECTION DATE** 6/21/2013 - 6/21/2013  
**SDG NUM** W06577

**ISSUE BACKGROUND**

**CLASS** Laboratory Issue  
**TYPE** Chain of Custody Issue  
**DESCRIPTION** Sample #B2PLK2 (COC # F13-017-020), the final "Received by" date is missing.

**DISPOSITION**

**DESCRIPTION** PROPOSED DISPOSITION: Document the excursion, notify the laboratory, insert the SIR into the data package.

**JUSTIFICATION** ACCEPTED DISPOSITION: COC will be corrected. Will discuss in case narrative and include SIR in final package.

SUBMITTED BY: Gayelyn Gibson/CHPRC Date: 6/25/13  
 ACCEPTED BY: Sandra Seger/TARL Date: 6/25/13

# SAMPLE ISSUE RESOLUTION

<b>SIR NUM</b>	SDR13-202
<b>REV NUM</b>	0
<b>DATE INITIATED</b>	7/11/2013

**SAMPLE EVENT INFORMATION**

<b>SAF NUM(S)</b>	F13-017
<b>OPERABLE UNIT(S)</b>	200-ZP-1
<b>PROJECT(S)</b>	P&T - 200W
<b>SAMPLE EVENT TITLE(S)</b>	200W Pump & Treat - Emission Sampling
<b>LABORATORY</b>	TestAmerica Incorporated, Richland

**SAMPLING INFORMATION**

<b>NUMBER OF SAMPLES</b>	2
<b>SAMPLE NUMBERS</b>	B2PLK2, B2PLK4A
<b>SAMPLE MATRIX</b>	OTHER LIQUID
<b>COLLECTION DATE</b>	6/21/2013 - 6/21/2013
<b>SDG NUM</b>	W06577

**ISSUE BACKGROUND**

<b>CLASS</b>	Chain of Custody Issue (Field)
<b>TYPE</b>	Other COC issue (Specify)
<b>DESCRIPTION</b>	B2PLK2 & B2PLK4A, COC# F13-017-020 & -030, the first person to relinquish did not sign their name.

**DISPOSITION**

<b>DESCRIPTION</b>	PROPOSED DISPOSITION: Document the excursion, insert the SIR into the data package and close the SIR.
<b>JUSTIFICATION</b>	ACCEPTED DISPOSITION: Accept the proposed resolution.
	SUBMITTED BY: Sara Champoux/CHPRC Date: 7/11/13
	ACCEPTED BY: Susan Puckett/CHPRC Date: 7/15/13

Analyst: B. Clark		Batch #	
Start Date: 6/21/2013	15:00	BATCH #	3172062
End Date: 6/21/2013	15:32	SDG #	W06577
End Time		Matrix	Water
Analyst Signature:		1st Coeff (a)	0.4663
Date: 6/21/2013		2nd Coeff (b)	0.0001
		Constant (c)	-0.0002
		Intercept	
		MDL (mg/L)	0.008
		Instrument Information	Hach DR2010
		Wavelength:	540

Calibration Curve Information	
R Squared	1.0000
2nd Coeff (a)	0.0235
1st Coeff (b)	0.4663
Constant (c)	0.0001
Intercept	-0.0002
$y = 0.235x^2 + 0.4663x + 0.0001$ $R^2 = 1.0000$	
Amount (mL)	Conc. (mg/L)
Blank	0.000
Std. 1	0.101
Std. 2	0.238
Std. 3	0.386
Std. 4	0.713
Std. 5	1.429
Standard Volume (mL):	1.861
Date of Curve:	95.000
	6/21/2013

Calibration Information:		LCS Information:		ICV/CCV Information:	
Dilution ID #	Cr-13-00225	Cr-13-00225	Cr-13-00225	Cr-13-00225	Cr-13-00225
Prep Date:	06/21/13	06/21/13	06/21/13	06/21/13	06/21/13
Concentration (mg/L)	50	50	50	50	50
Expiration Date:	06/22/13	06/22/13	06/22/13	06/22/13	06/22/13
Pipettor(s)	70,190	190	190	190	190
Volume Used (mL)	1.000	1.000	1.000	1.000	1.50
Final Volume (mL)	100.000	100.000	100.000	100.000	100.000
Expected Value (mg/L)	0.475	0.475	0.475	0.475	0.713

Sample ID	Client ID	Type	Sample Volume (mL)	Final Volume (mL)	Sample ABS.	Color Blank ABS.	Corrected ABS.	Dilution Factor	Curve Conc. (mg/L)	Expected (mg/L)	% Rec. / RPD	Final Reported Conc. (mg/L)	Qualifier
n/a	n/a	ICV	95.000	100.000	0.973		0.973	1	0.4761	0.4750	100.22%	0.476	
n/a	n/a	ICB	95.000	100.000	0.001		0.001	1	0.0006			<MDL	U
n/a	n/a	CCV	95.000	100.000	0.959		0.959	1	0.4689	0.4750	98.71%	0.469	U
n/a	n/a	CCB	95.000	100.000	0.004		0.004	1	0.0020			<MDL	U
M06371AA	n/a	BLK	95.000	100.000	0.001		0.001	1	0.0006			<MDL	U
M06371AC	n/a	LCS	95.000	100.000	0.976		0.976	1	0.4776	0.4750	100.56%	0.478	U
M063M1AA	B2PLK2'	Sample	95.000	100.000	0.005		0.005	1	0.0024			<MDL	U
M063M1AC-S	B2PLK2'	MS*	95.000	100.000	1.514		1.514	1	0.7599	0.7500	101.33%	0.760	
M063M1AD-D	B2PLK2'	MSD*	95.000	100.000	1.508		1.508	1	0.7567	0.7500	100.90%	0.757	
M063M1AE-X	B2PLK2'	Duplicate	95.000	100.000	0.007		0.007	1	0.0034			<MDL	U
M063Q1AA	B2PLK4-A'	Sample	95.000	100.000	0.013		0.013	1	0.0062			<MDL	U
n/a	n/a	CCV	95.000	100.000	0.958		0.958	1	0.4684	0.4750	98.61%	0.468	U
n/a	n/a	CCB	95.000	100.000	0.004		0.004	1	0.0020			<MDL	U

\*if the parent sample is above the MDL, the Final Reported Conc. (mg/L) for the MS and MSD is corrected for the parent sample.  
CG-223 Rev. 6/1/2013



Richland Laboratory  
Data Review Check List  
Hexavalent Chromium

Batch Number(s):	3172082	Lab Sample Numbers or SDG:	W06577		
Method/Test/Parameter: Cr+6 <input checked="" type="checkbox"/> RL-WC-003(Aqueous) <input type="checkbox"/> RL-WC-004(Solid)					
Review Item	Yes (✓)	No (✓)	N/A (✓)	2 <sup>nd</sup> Level Review (✓)	
<b>A. Initial Calibration</b>					
1. Performed at required frequency with required number of levels?	✓			✓	
2. Correlation coefficient greater than 0.97?	✓			✓	
3. Initial calibration verification (ICV) analyzed immediately after calibration and results within 10% of expected?	✓			✓	
4. Initial calibration blank (ICB) analyzed immediately after ICV and concentrations of all parameters ≤ reporting limit?	✓			✓	
<b>B. Continuing Calibration</b>					
1. CCV analyzed at required frequency and all parameters within 10% of expected?	✓			✓	
2. CCB analyzed at required frequency and all results ≤ reporting limit?	✓			✓	
<b>C. Sample Analysis</b>					
1. Were any samples with concentrations above the linear range diluted and reanalyzed?			✓	✓	
2. Were all sample holding times met?	✓			✓	
<b>D. QC Samples</b>					
1. All results for the preparation blank below limits?	✓			✓	
2. LCS percent recovery within 85-115%	✓			✓	
3. PbCrO <sub>4</sub> percent recovery within 75-125%			✓	✓	
4. Sample and Duplicate within 20% (aqueous) or 35% (solid) RPD?	✓			✓	
5. MS or MS/MSD recoveries within 85-115% (aqueous) or 75-125% (solid)?	✓			✓	
6. On MS failure, PDMS within 85-115%?			✓	✓	
<b>E. Other</b>					
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 or list NCM number:

Analyst Bill Vane Date 6/11/13 2<sup>nd</sup> Review James Date 6/24/13

CHZM Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F13-017-020	PAGE 1 OF 1
COLLECTOR <b>K. PATERSON</b>	COMPANY CONTACT EVANS, RT	TELEPHONE NO. 373-7924	PROJECT COORDINATOR EVANS, RT	PRICE CODE 9C	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 289-T_Main Stack_IMS-CR6-R3-1	PROJECT DESIGNATION 200W Pump & Treat - Stack Emission Sampling - Chem	FIELD LOGBOOK NO. HWF-N-507-21	SAF NO. F13-017	AIR QUALITY <input type="checkbox"/>	METHOD OF SHIPMENT GOVERNMENT VEHICLE
ICE CHEST NO. 6WS-018	ACTUAL SAMPLE DEPTH N/A	COA 303110ES10	BILL OF LADING/AIR BILL NO. N/A	<b>ORIGINAL</b>	
SHIPPED TO Waste Sampling & Characterization	TARL				

MATRIX*	POSSIBLE SAMPLE HAZARDS/REMARKS	PRESERVATION	COOL-TO
A=Air DL=Drum L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WT=Wipe X=Other	**Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.**	HOLDING TIME 24 Hours	Cool-to-C
		TYPE OF CONTAINER G/P	
		NO. OF CONTAINER(S) 1	
		VOLUME 500mL	
		SAMPLE ANALYSIS 7196 CR6: COMMON;	
SPECIAL HANDLING AND/OR STORAGE		SAMPLE DATE 6/21/13	SAMPLE TIME 1253
SAMPLE NO. B2PLK2	MATRIX*	OTHER LIQUID	

303110429  
WOLFEN  
Due 1-13-13 SKS 6-24-13  
MOLBOM

CHAIN OF POSSESSION		SIGN/PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	** The CACN for WSCF Analytical is 403311. ☐** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-13-064	
K. PATERSON	6/21/13 1310	AR-McIntire	6-21-13 1310	*Samples were received on 6/21/13, see SI R Num 50R13-192 for more details, TRVL 13-064 SKS 6-25-13	
AR-McIntire	6-21-13 1408	J. BOLL	6-21-13 1408		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
LABORATORY SECTION	RECEIVED BY	TITLE		DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY		DATE/TIME	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 6-21-13/1408 Container GM Screen Result: (Airlock) 100 cpm Initials [ ]
Sample GM Screen Result (Sample Receiving) 20 cpm Initials [ ]

Client: FLH SDG #: W065M SAF #: F13-017 NA [ ]

Lot Number: J3F210429

Chain of Custody # F13-017-020; 030

Shipping Container ID or Air Bill Number : hand deliv. NA [ ]

Samples received inside shipping container/cooler/box Yes [ ] Continue with 1 through 4. Initial appropriate response.
No [ ] Go to 5, add comment to #16.

- 1. Custody Seals on shipping container intact? Yes [ ] No [ ] No Custody Seal [ ]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [ ]
3. Cooler temperature: 4.6 °C Ice NA [ ]
4. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

- 5. Chain of Custody record present? Yes [ ] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 2
7. Containers received: 2 x 500 mL AG

- 8. Sample holding times exceeded? NA [ ] Yes [ ] No [ ]
9. Samples have: tape hazard labels B custody seals B appropriate sample labels
10. Matrix: A (FLT, Wipe, Solid, Soil) B I (Water) S (Air, Niosh 7400) T (Biological, Ni-63)

- 11. Samples: are in good condition are leaking are broken
have air bubbles (Only for samples requiring no head space) Other

- 12. Sample pH appropriate for analysis requested Yes [ ] No [ ] NA [ ] SKS 6-24-13
(If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO3 added and pH after addition on table)

- 13. Were any anomalies identified in sample receipt? SKS 6-24-13 Yes [ ] No [ ] SKS 6-24-13
14. Description of anomalies (include sample numbers): NA [ ] Samples were in 0.1 N KOH.
See attached email dated 6/20/13. Crib Lab will process as necessary

- 15. Sample Location, Sample Collector Listed on COC? \* Yes [ ] No [ ]
\*For documentation only. No corrective action needed.

- 16. Additional Information: SKS 6-24-13 Include TOTAL sample size on the
Final Report per email dated 6/21/13.

[ ] Client/Courier denied temperature check. [ ] Client/Courier unpack cooler.

Sample Check-in List completed by Sample Custodian:

Signature: [ ] Date: 6-21-13

Client Notification needed? Yes [ ] No [ ] Date:
By:
Person contacted:

[ ] No action necessary; process as is

Project Manager: [ ] Date: 6-24-13

**Seger, Sandra**

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**From:** Trent, Stephen J [Stephen\_J\_Trent@ri.gov]

**Sent:** Thursday, June 20, 2013 9:39 AM

**To:** Seger, Sandra

**Subject:** Bob Evans' Cr-VI samples

Sandra,

Bob Evans wanted me to let you know that the Cr-VI samples you will be receiving from his project are dissolved in 0.1 N KOH...

Steve

6/24/2013

**Seger, Sandra**

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**From:** Evans, Robert T [Robert\_T\_Evans@rl.gov]  
**Sent:** Friday, June 21, 2013 2:25 PM  
**To:** Seger, Sandra  
**Subject:** Need Total Volume for Hex Chrome/Total Chrome  
Sandra -

Would you please record/report the total volume of each sample that we sent you today that required the hex chrome and total chrome analysis.

If you have any questions, please feel free to contact me.

Thank-you,

~ Bob

Robert T. Evans  
Soil & Groundwater Remediation Project  
phone: 509.373.7924/ mobile: 509.430.5245



6/24/2013

**6/21/2013 3:16:01 PM** **Sample Preparation/Analysis** **Balance Id:** \_\_\_\_\_ **Pipet #:** \_\_\_\_\_

108302, CH2M Hill Plateau Remediation DOE RL **88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION**

, Waste Management Federal Servi **EA Chromium, Hexavalent (7196A)**

**AnalyteDueDate: 07/05/2013** **PM, Quote: SS, 29754** **Sep1 DT/Tm Tech:** \_\_\_\_\_ **Sep2 DT/Tm Tech:** \_\_\_\_\_

**Batch: 3172082 WATER ug/L** **Prep Tech:** \_\_\_\_\_

SEQ Batch, Test: None All Tests: 3172082 88EA, **Count On | Off** **CR Analyst,**

Work Order, Lot, Sample Date Time	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:
<b>1 M063M-1-AA</b>								
J3F210429-1-SAMP								
06/21/2013 12:53		AmtRec: 1X500MLAG						
								Alpha: _____ Beta: _____
<b>2 M063M-1-AC-S</b>								
J3F210429-1-MS								
06/21/2013 12:53		AmtRec: 1X500MLAG						
								Alpha: _____ Beta: _____
<b>3 M063M-1-AD-D</b>								
J3F210429-1-MSD								
06/21/2013 12:53		AmtRec: 1X500MLAG						
								Alpha: _____ Beta: _____
<b>4 M063M-1-AE-X</b>								
J3F210429-1-DUP								
06/21/2013 12:53		AmtRec: 1X500MLAG						
								Alpha: _____ Beta: _____
<b>5 M063Q-1-AA</b>								
J3F210429-2-SAMP								
06/21/2013 12:35		AmtRec: 1X500MLAG						
								Alpha: _____ Beta: _____
<b>6 M0637-1-AA-B</b>								
J3F210000-82-BLK								
06/21/2013 15:15 pd		AmtRec: 1						
								Alpha: _____ Beta: _____
<b>7 M0637-1-AC-C</b>								
J3F210000-82-LCS								
06/21/2013 15:15 pd		AmtRec: 1						
								Alpha: _____ Beta: _____

**TestAmerica** Key: in - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1 **ISV - Insufficient Volume for Analysis** **WO Cnt: 7**

**Richland Wa.** pd - Prep Dt, dc - Date Chg, r - Reference Dt, ec-Enrichment Cell, ci-Cocktailed Added **ICOC v4.8.49**

6/21/2013 3:16:02 PM

**Sample Preparation/Analysis**

Balance Id: \_\_\_\_\_ Pipet #: \_\_\_\_\_

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

EA Chromium, Hexavalent (7196A)

01 STANDARD TEST SET

AnalyteDueDate: 07/05/2013

Batch: 3172082

SEQ Batch, Test: None

ug/L

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	Count Time Min	Detector Id	Count On   Off (24hr) Circle	CR Analyst, Intri/Date	Comments:
<b>Comments:</b>								
All Clients for Batch:								
108302, CHEM Hill Plateau Remediation DOE RL Waste Management Federal Servi, SS , 29754								
M063M1AA-SAMP Constituent List:								
M063M1AC-MS Constituent List:								
M063M1AD-MSD:								
M06371AA-BLK:								
M06371AC-LCS:								
M063M1AA-SAMP Calc Info:								
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subst.: N	Sci.Not.: Y	ODRs: B				
M063M1AC-MS Calc Info:								
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subst.: N	Sci.Not.: Y	ODRs: B				
M063M1AD-MSD:								
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subst.: N	Sci.Not.: Y	ODRs: B				
M06371AA-BLK:								
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subst.: N	Sci.Not.: Y	ODRs: B				
M06371AC-LCS:								
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subst.: N	Sci.Not.: Y	ODRs: B				

TestAmerica Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2

Richland Wa. pd - Prep Dt, do - Date Chg, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ISV - Insufficient Volume for Analysis

WO Cnt: 7

ICOC v4.8.49