

**SAF-RC-074**  
**100-D/DR Burial Grounds & Remaining**  
**Sites – Soil In-Process**  
**FINAL DATA PACKAGE**

**COMPLETE COPY OF DATA PACKAGE TO:**

Kathy Wendt

H4-21

KW 5/13/14  
INITIAL/DATE

**COMMENTS:**

**SDG J02140**

**SAF RC-074**

Rad only

Chem only

Rad & Chem

Complete

Partial

**Waste Site: 100-D-100 (LDR04 stockpile to reclassify ACL)**

Analytical Data Package Prepared For

## **Washington Closure Hanford**

Analysis Provided By

*TestAmerica Richland*  
2800 George Washington Way  
Richland WA, 99354  
(509)375-3131  
Assigned Laboratory Code: TARL

SDG Number: J02140

## Certificate of Analysis

Washington Closure Hanford  
2620 Fermi Avenue  
Richland, WA 99354

May 12, 2014

Attention: Joan Kessner

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SAF Number	:	RC-074
Date SDG Closed	:	May 9, 2014
Number of Samples	:	One (1)
Sample Type	:	Soil
SDG Number	:	J02140
Data Deliverable	:	Quick Turn Metals / Summary

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### CASE NARRATIVE

#### **I. Introduction**

On May 6, 2014, one soil sample was received at TestAmerica for analysis. Upon receipt, the sample was assigned the following laboratory ID number to correspond with the Washington Closure Hanford (WCH) specific ID;

<u>WCH ID#</u>	<u>TARL ID#</u>	<u>MATRIX</u>	<u>DATE OF RECEIPT</u>
J1THM1	M3NFL	SOIL	5/06/14

#### **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:

**ICP Metals**  
ICP Metals by method SW-846 6010A

#### **IV. Quality Control**

SDG J02140 includes a minimum of one Laboratory Control Samples (LCS), one method (reagent) blank, a duplicate sample, matrix spike sample and a matrix spike duplicate sample. Any exceptions have been noted in the "Comments" section.

Blanks and LCS are reported in mg/L units, other QC and sample results are reported in the same units.

Washington Closure Hanford  
May 12, 2014

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**V. Comments**

**ICP Metals**

ICP Metals by method SW-846 6010A

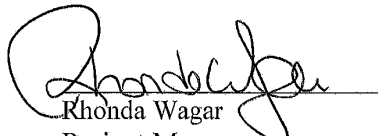
One batch was analyzed for the samples with the standard metal request list.

Batch 4127035:

The RPD for the sample and sample duplicate (J1THM1 DUP) for Arsenic is not within the acceptance limits. This maybe attributed to the inhomogeneity of the matrix. All other QC acceptance requirements are within limits. Except as noted; the LCS, batch blank, samples, sample duplicate, MS, MSD, ICB, ICV, CCB and CCV results are within contractual limits.

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:

  
Rhonda Wagar  
Project Manager



# Clouseau Nonconformance Memo



NCM #: <b>10-26898</b> NCM Initiated By: Hooshang Rahavi Date Opened: 05/07/2014 Date Closed:	Classification: <b>Anomaly</b> Status: <b>PMREVIEW</b> Production Area: Classical Chemistry Tests: 6010A Lot #'s (Sample #'s): J4E060421 (1), J4E070000 (35), QC Batches: 4127035,
Nonconformance: Dups not within acceptance limits Subcategory: Inhomogeneity of the Sample	

### Problem Description / Root Cause

Name	Date	Description
Hooshang Rahavi	05/07/2014	The duplicate's RPD was above the acceptance criteria for Arsenic. The sample duplicate was not within acceptance criteria possibly due to inhomogeneity of the sample.

### Corrective Action

Name	Date	Corrective Action
Hooshang Rahavi	05/07/2014	Report data for client review.

### Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note
			<u>Response</u>		<u>Response Note</u>

### Quality Assurance Verification

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

### Approval History

Date Approved	Approved By	Position
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<b>Washington Closure Hanford</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>		RC-074-656	Page 1 of 2 SWS 5-10-14 Data Turnaround
Collector W. Sexsmith	Company Contact Joan Kessner	Telephone No. 375-4688	Project Coordinator KESSNER, JH	Price Code	
Project Designation 100-D/DR Field Remediation	Sampling Location 100-D/DR (LDR04 stockpile to reclassifying area)	Field Logbook No. COA 0D10032600	SAF No. RC-074	Method of Shipment Local Delivery	Q.T.
Ice Chest No. N/A	Offsite Property No. N/A	Offsite Property No. N/A	Bill of Lading/Air Bill No. N/A		

Sample No.	Matrix	Sample Date	Sample Time	Preservation	No. of Container(s)	Volume	Sample Analysis
J1THM1 MBNFL	SOIL	05/06/14	1155	None	1	125mL	See item (1) in Special Instructions
J1THM2 05/06/14	SOIL			GP			
J1THM3	SOIL						
J1THM4	SOIL						
J1THM5	SOIL						

**POSSIBLE SAMPLE HAZARDS/REMARKS**  
N/A

**Special Handling and/or Storage**  
Cool 4C

**CHAIN OF POSSESSION**

Relinquished By/Removed From W. Sexsmith	Date/Time 5/6/14	Received By/Stored In R. Fehle	Date/Time 5/6/14
Relinquished By/Removed From R. Fehle	Date/Time 5-6-14	Received By/Stored In SM SEXTON	Date/Time 5/6/14
Relinquished By/Removed From SM SEXTON	Date/Time 5/6/14	Received By/Stored In TOMM GUNN	Date/Time 5/6/14

**CHAIN OF POSSESSION**

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

**FINAL SAMPLE DISPOSITION**

Disposed By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Disposal Method: \_\_\_\_\_

WCH-EE-011

**SPECIAL INSTRUCTIONS**

(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Beryllium, Cadmium, Chromium, Lead, Selenium, Silver}

JY6000421  
J02140

JH6000421  
J02140  
Dr: 5-11-14



Sample Check-in List

Date/Time Received: 5-6-14 / 1535 Container GM Screen Result: (Airlock) 40 cpm Initials [ ]
Sample GM Screen Result (Sample Receiving) 60 cpm Initials [ ]

Client: WCH SDG #: 302140 SAF #: KC-014 NA [ ]

Lot Number: J4E060421

Chain of Custody # N/A

Shipping Container ID or Air Bill Number: Hand delivered N/A

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: 9.4 °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): 1
7. Containers received: 1 x 125mL

- 8. Sample holding times exceeded? NA [ ] Yes [ ] No [ ]
9. Samples have: tape hazard labels [ ] custody seals [ ] appropriate sample labels
10. Matrix: A (FLT, Wipe, Solid, Soil) 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 [ ]
(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? Yes [ ] No [ ]
14. Description of anomalies (include sample numbers): NA [ ]

- 15. Sample Location, Sample Collector Listed on COC? \* Yes [ ] No [ ]
\*For documentation only. No corrective action needed.
16. Additional Information: N/A

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

Sample Check-in List completed by Sample Custodian:
Signature: [ ] Date: 5-6-14

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

[ ] No action necessary; process as is
Project Manager: [ ] Date: 5/6/14