

RECEIVED APRIL 28, 2008

0078253

Analytical Data Package Prepared For

Fluor Hanford, Inc.

Analysis Provided By

TestAmerica

2800 George Washington Way

Richland WA, 99354

(509)375-3131

Assigned Laboratory Code: TALR

SDG Number: W05384

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JUN 27 2008

EDMC

Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

April 28, 2008

Attention: Steve Trent

SAF Number	:	F08-039
Date SDG Closed	:	April 24, 2008
Number of Samples	:	One (1)
Sample Type	:	Water
SDG Number	:	W05384
Data Deliverable	:	24 Hour / 15 Day

CASE NARRATIVE

I. Introduction

On April 24, 2008 one sample was received at TestAmerica for chemical analysis. Upon receipt, the sample was assigned to lot J8D240218 and assigned the following laboratory ID number to correspond with the Fluor Hanford (FH) specific ID:

<u>FH ID#</u>	<u>STLR ID#</u>	<u>MATRIX</u>	<u>DATE OF RECEIPT</u>
B1V514	KLXW6	WATER	4/24/08

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.

April 28, 2008

The requested analyses were:

Chemical Analysis
Chromium by EPA method SW8466010

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.

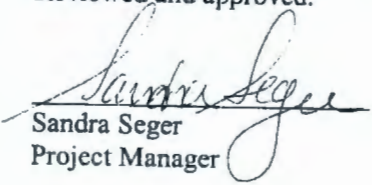
V. Comments

Chemical Analysis
Chromium by EPA method SW8466010

The LCS, batch blank, sample and duplicate sample 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

Analysis Date: 4/25/2008
 QC Batch #: 8115442
 Analyte: Chromium
 MDL 0.0194

Sample ID	Comment	Client ID	Instrum't Reading (mg/L)	Final Vol. (L)	Dilution Factor	Recov'd Cr (mg/L)	Results (ug/L)	Yield
KLXW61AA	10:1 dilution	B1V514'	0.2252	1	10	2.252	2252	
KLXW61AC	10:1 dilution MS	B1V514'	1.167	1	10	11.67	11670	94.18%
KLXW61AD	10:1 dilution MSD	B1V514'	1.176	1	10	11.76	11760	95.08%
KLXW61AE	10:1 dilution - Duplicate	B1V514 DUP'	0.2315	1	10	2.315	2315	
KLOFK1AA	Reagent Blank		-0.0116	0.05	1	-0.0116	<MDL	
KLOFK1AC	LCS		1.021	0.05	1	1.021		102.10%

Richland Laboratory Data Review Check List Metals

Batch Numbers: 8115442				
Lab Sample Numbers or SDG:				
Method/Test/Parameter: Metals				
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 \leq 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 \leq reporting limit?		✓		✓
C. Sample Analysis				
1. Were any samples with concentrations above the linear range for any parameter diluted and reanalyzed?	✓			✓
2. Were all sample holding times met?	✓			✓
D. QC Samples				
1. All results for the preparation blank below limits?	✓			✓
2. MS or MS/MSD recoveries within QC limits and %RPD (for MSD) acceptable?			✓	✓
3. LCS percent recovery within QC limits and %RPD (for LCSD) acceptable?	✓			✓
4. Analytical spikes within QC limits where applicable?	✓			✓
5. ICP only: One serial dilution performed per SDG?			✓	✓
6. ICP only: CRDI 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. Transcript is checked?	✓			/
6. Calculations checked at minimum frequency?	✓			/
7. Units checked?	✓			/

Comments on any "No" response _____ Cr in CCB slightly less than expected – see
NCM

Analyst: *SJ*

Date 4/25/08

Second-Level Review: *Quhe Qnd*

Date: 4/25/08

Clouseau Nonconformance Memo



NCM #: 10-12204 NCM Initiated By: Diana Petty Date Opened: 04/25/2008 Date Closed:	Classification: Anomaly Status: GLREVIEW Production Area: Classical Chemistry Tests: 7196A Lot #'s (Sample #'s): J8D240000 (442), J8D240218 (1). QC Batches: 8115442.
Nonconformance: Other (describe in detail) Subcategory: Other (explanation required)	

Problem Description / Root Cause

<u>Name</u>	<u>Date</u>	<u>Description</u>
Diana Petty	04/25/2008	This batch was run in consequence with several other batches on the ICP instrument. All CCBs are within limits, except for the last two in which the concentration of Cr was slightly less than expected. Suspect low level of CCB solution in the sampling tube for the CCBs in question.

Corrective Action

<u>Name</u>	<u>Date</u>	<u>Corrective Action</u>
Diana Petty	04/25/2008	report data

Client Notification Summary

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

Quality Assurance Verification

<u>Verified By</u>	<u>Due Date</u>	<u>Status</u>	<u>Notes</u>
			This section not yet completed by QA.

Approval History

<u>Date Approved</u>	<u>Approved By</u>	<u>Position</u>
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TESTAMERICA

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-039-093

PAGE 1 OF 1

COLLECTOR

NCO Samplers

COMPANY CONTACT

WIDRIG, DL

TELEPHONE NO.

376-2858

PROJECT COORDINATOR

TRENT, SJ

PRICE CODE

1A

DATA TURNAROUND

24 Hours / 15 Days

SAMPLING LOCATION

DR-5 filtered

PROJECT DESIGNATION

DR-5 GW Treatment Facility Regen Waste Characterization - Special Sampli

SAF NO.

F08-039

AIR QUALITY

ICE CHEST NO.

GR7-05-010

FIELD LOGBOOK NO.

HNF-N-4283

ACTUAL SAMPLE DEPTH

N/A

COA

122569ES10

METHOD OF SHIPMENT

GOVERNMENT VEHICLE

SHIPPED TO

TestAmerica Incorporated, Richland

OFFSITE PROPERTY NO.

N/A

BILL OF LADING/AIR BILL NO.

N/A

MATRIX*

- A=Air
- DL=Drum
- Liquids
- DS=Drum
- Solids
- L=Liquid
- O=Oil
- S=Soil
- SF=Sediment
- T=Tissue
- V=Vegetation
- W=Water
- WI=Wipe
- X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS

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

PRESERVATION

HNO3 to pH <2

TYPE OF CONTAINER

CP

NO. OF CONTAINER(S)

1

VOLUME

500mL

SAMPLE ANALYSIS

ICP Metals - 6010A (TAL) (Chromium)

SPECIAL HANDLING AND/OR STORAGE

24APR08

SAMPLE NO.

B1V514

MATRIX*

WATER

SAMPLE DATE SAMPLE TIME

4/24/08 0755 J

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM

DATE/TIME

SIGN/ PRINT NAMES

RECEIVED BY/STORED IN

DATE/TIME

SPECIAL INSTRUCTIONS

** The field samplers are requested to filter the sample with a 0.45 micron filter and preserve with HNO3 to a pH less than 2.

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

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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

J8D240218
W05384
DUE 42508
KLXW6



Sample Check-in List

Date/Time Received: 42408 1100 GM Screen Result 0.1K

Client: FLH SDG #: W05384 NA [] SAF #: F08-039 NA []

Work Order Number: J8D240218 Chain of Custody # F08-039-093

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
- 7. Sample holding times exceeded? NA Yes [] No []
- 8. Samples have:
____ Tape _____ Hazard Labels
 Custody Seals _____ Appropriate Sample Labels
- 9. Samples are:
 In Good Condition _____ Leaking
____ Broken _____ Have Air Bubbles
(Only for samples requiring no head space.)
- 10. Sample pH taken? NA [] pH<2 pH>2 [] pH>9 [] Amount HNO₃ Added _____
- 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: 42408

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[] No action necessary, process as is.

Project Manager _____ Date _____

TESTAMERICA

4/24/2008 3:43:23 PM

Sample Preparation/Analysis

Balance Id:

108302, Fluor Hanford Inc
Management Federal Servi

Waste

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
EA Chromium, Hexavalent (7196A)
01 STANDARD TEST SET

Pipet #:

AnalyDueDate: 04/25/2008

Sep1 DT/Tm Tech:

Batch: 8115442 WATER ug/L
SEQ Batch, Test: None

PM, Quote: SS , 29754

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, Init/Date	Comments:
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1 KLXW6-1-AA

J8D240218-1-SAMP

04/24/2008 07:55		AmtRec: 500MLP	#Containers: 1				Scr:	Alpha:	Beta:
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2 KLXW6-1-AC-S

J8D240218-1-MS

04/24/2008 07:55		AmtRec: 500MLP	#Containers: 1				Scr:	Alpha:	Beta:
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3 KLXW6-1-AD-D

J8D240218-1-MSD

04/24/2008 07:55		AmtRec: 500MLP	#Containers: 1				Scr:	Alpha:	Beta:
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4 KLXW6-1-AE-X

J8D240218-1-DUP

04/24/2008 07:55		AmtRec: 500MLP	#Containers: 1				Scr:	Alpha:	Beta:
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5 KLOFK-1-AA-B

J8D240000-442-BLK

04/24/2008 07:55		AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
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6 KLOFK-1-AC-C

J8D240000-442-LCS

04/24/2008 07:55		AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
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10

TESTAMERICA

4/24/2008 3:43:24 PM

Sample Preparation/Analysis

Balance Id:

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
 EA Chromium, Hexavalent (7196A)
 01 STANDARD TEST SET

Pipet #:

AnalyDueDate: 04/25/2008

Sep1 DT/Tm Tech:

Batch: 8115442
 SEO Batch, Test: None

ug/L

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, Init/Date	Comments:
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Comments:

All Clients for Batch:
 108302, Fluor Hanford Inc

Waste Management Federal Servi, SS, 29754

KLXW61AA-SAMP Constituent List:

KLXW61AC-MS Constituent List:

KLXW61AD-MSD:

KL0FK1AA-BLK:

KL0FK1AC-LCS:

KLXW61AA-SAMP Calc Info:

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

KLXW61AC-MS Calc Info:

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

KLXW61AD-MSD:

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

KL0FK1AA-BLK:

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

KL0FK1AC-LCS:

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

Approved By

Date: