

## TestAmerica Irvine

### Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER  
Lot/SDG Number: D8K290116  
Matrix: WATER  
% Moisture:  
Basis: Wet  
Analysis Method: 245.1  
Unit: ug/L  
QC Batch ID: 8336128  
Sample Aliquot: 10 mL  
Dilution Factor: 1

Client Sample ID:  
Lab Sample ID: D8L010000-128B  
Lab WorkOrder: K3VCE  
Date/Time Collected:  
Date/Time Received:  
Date Leached:  
Date/Time Extracted: 12/01/08 13:30  
Date/Time Analyzed: 12/01/08 17:23  
Instrument ID: 019

CAS No.	Analyte	Conc.	MDL	RL	Q
7439-97-6	Mercury	0.027	0.027	0.20	U

**Total Metals Analysis**

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**BLANKS**

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: D8K290116

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	Continuing Calibration Blank (ug/L)						Preparation Blank	M
		1	2	3	C	C	C		
Mercury	0.027 U	0.027 U	0.027 U				0.027 U	CV	

Comments:

## TestAmerica Irvine

### Total Metals Analysis Data Sheet

**Lab Name:** TESTAMERICA DENVER  
**Lot/SDG Number:** D8K290116  
**Matrix:** WATER  
**% Moisture:** N/A  
**Basis:** Wet  
**Analysis Method:** 245.1  
**Unit:** ug/L  
**QC Batch ID:** 8336128  
**MS Sample Aliquot:** 10 mL  
**MS Dilution Factor:** 1

**Client Sample ID:** LAB MS/MSD  
**MS Lab Sample ID:** D8K290110-001S  
**MS Lab WorkOrder:** K3TLX  
**Date/Time Collected:** 11/26/08 09:15  
**Date/Time Received:** 11/29/08 08:30  
**Date Leached:**  
**Date/Time Extracted:** 12/01/08 13:30  
**Date/Time Analyzed:** 12/01/08 17:30  
**Instrument ID:** 019

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
Mercury	5.00	0.027	U	5.41		108		90 - 110

## Total Metals Analysis Data Sheet

**Lab Name:** TESTAMERICA DENVER  
**Lot/SDG Number:** D8K290116  
**Matrix:** WATER  
**% Moisture:** N/A  
**Basis:** Wet  
**Analysis Method:** 245.1  
**Unit:** ug/L  
**QC Batch ID:** 8336128  
**MSD Sample Aliquot:** 10 mL  
**MSD Dilution Factor:** 1

**Client Sample ID:** LAB MS/MSD  
**MSD Lab Sample ID:** D8K290110-001D  
**MSD Lab WorkOrder:** K3TLX  
**Date/Time Collected:** 11/26/08 09:15  
**Date/Time Received:** 11/29/08 08:30  
**Date Leached:**  
**Date/Time Extracted:** 12/01/08 13:30  
**Date/Time Analyzed:** 12/01/08 17:32  
**Instrument ID:** 019

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
Mercury	5.00	0.027	U	5.41		108		0.10		90 - 110	10

## Total Metals Analysis Data Sheet

**Lab Name:** TESTAMERICA DENVER  
**Lot/SDG Number:** D8K290116  
**Matrix:** WATER  
**% Moisture:** N/A  
**Basis:** Wet  
**Analysis Method:** 245.1  
**Unit:** ug/L  
**QC Batch ID:** 8336128  
**Sample Aliquot:** 10 mL  
**Dilution Factor:** 1

**Client Sample ID:**  
**Lab Sample ID:** D8L010000-128C  
**Lab WorkOrder:** K3VCE  
**Date/Time Collected:**  
**Date/Time Received:**  
**Date Leached:**  
**Date/Time Extracted:** 12/01/08 13:30  
**Date/Time Analyzed:** 12/01/08 17:27  
**Instrument ID:** 019

Analyte	True	Found	%Rec	Q	Limits
Mercury	5.00	5.27	105		90 - 110

Total Metals Analysis

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DETECTION LIMITS

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: D8K290116

ICP ID Number: \_\_\_\_\_ Date: 1/23/2008

Flame AA ID Number: PE CVAA

Furnace AA ID Number: \_\_\_\_\_

Analyte	Wave-length (nm)	Back-ground	PQL (ug/L)	MDL (ug/L)	M
Mercury	253.70		0.20	0.027	CV

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Total Metals Analysis

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PREPARATION LOG

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: D8K290116

Method: CV Prep Method: \_\_\_\_\_

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
INTRA-LAB QC	12/1/2008	10.0	10.0
LAB MS/MSD MS	12/1/2008	10.0	10.0
LAB MS/MSD MSD	12/1/2008	10.0	10.0
IRK2828-01	12/1/2008	10.0	10.0
MB8336128	12/1/2008	10.0	10.0
Check Sample	12/1/2008	10.0	10.0

Comments:

Total Metals Analysis

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ANALYSIS RUN LOG

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: D8K290116

Instrument ID Number: PE CVAA Method: CV

Start Date: 12/1/2008 End Date: 12/1/2008

Sample ID.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
Calib Blank 1	1.00	16:57																										X	
STD1	1.00	16:58																										X	
STD2	1.00	17:00																										X	
STD3	1.00	17:02																										X	
STD4	1.00	17:04																										X	
STD5	1.00	17:05																										X	
STD6	1.00	17:07																										X	
CCV	1.00	17:11																										X	
ICB	1.00	17:14																										X	
ICV	1.00	17:16																										X	
RL	1.00	17:17																										X	
CCV	1.00	17:19																										X	
CCB	1.00	17:21																										X	
MB8336128	1.00	17:23																										X	
Check Sample	1.00	17:27																										X	
INTRA-LAB QC	1.00	17:28																										X	
LAB MS/MSD MS	1.00	17:30																										X	
LAB MS/MSD MSD	1.00	17:32																										X	
IRK2828-01	1.00	17:35																										X	
CCV	1.00	17:39																										X	
CCB	1.00	17:40																										X	

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## Dissolved Metals

Lot ID: D8K290116

Client: TestAmerica Irvine

Method: 245.1

Associated Samples: 001

Batch: 8336136



## TestAmerica Irvine

### Dissolved Metals Analysis Data Sheet

**Lab Name:** TESTAMERICA DENVER  
**Lot/SDG Number:** D8K290116  
**Matrix:** WATER  
**% Moisture:** N/A  
**Basis:** Wet

**Client Sample ID:** IRK2828-01  
**Lab Sample ID:** D8K290116-001  
**Lab WorkOrder:** K3TMN  
**Date/Time Collected:** 11/26/08 13:30  
**Date/Time Received:** 11/29/08 08:30

CAS No.	Analyte	Conc.	MDL	RL	Units	Q	Method
7439-97-6	Mercury	0.027	0.027	0.20	ug/L	U	245.1

Dissolved Metals Analysis

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: D8K290116

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: Ultra Scientific

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury	7.000	7.096	101.4	5.000	5.150	103.0	5.147	102.9	CV

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

Dissolved Metals Analysis

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: D8K290116

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: Ultra Scientific

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury				5.000	5.453	109.1	5.360	107.2	CV

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

Dissolved Metals Analysis  
-2B-  
CRDL STANDARD FOR AA AND ICP

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: D8K290116

AA CRDL Standard Source: Ultra Scientific

ICP CRDL Standard Source: \_\_\_\_\_

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial		Final		
	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.200	0.13694	68.5					

Comments:

## TestAmerica Irvine

### Dissolved Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER  
Lot/SDG Number: D8K290116  
Matrix: WATER  
% Moisture:  
Basis: Wet  
Analysis Method: 245.1  
Unit: ug/L  
QC Batch ID: 8336136  
Sample Aliquot: 10 mL  
Dilution Factor: 1

Client Sample ID:  
Lab Sample ID: D8L010000-136B  
Lab WorkOrder: K3VC1  
Date/Time Collected:  
Date/Time Received:  
Date Leached:  
Date/Time Extracted: 12/01/08 13:30  
Date/Time Analyzed: 12/01/08 17:44  
Instrument ID: 019

CAS No.	Analyte	Conc.	MDL	RL	Q
7439-97-6	Mercury	0.027	0.027	0.20	U

**Dissolved Metals Analysis**

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**BLANKS**

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: D8K290116

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	Continuing Calibration Blank (ug/L)						Preparation Blank	M
		1	2	3	4	5	6		
Mercury	0.027 U	0.027 U	0.027 U	0.027 U	0.027 U	0.027 U	0.027 U	CV	

Comments:



**TestAmerica Irvine**

**Dissolved Metals Analysis Data Sheet**

**Lab Name:** TESTAMERICA DENVER  
**Lot/SDG Number:** D8K290116  
**Matrix:** WATER  
**% Moisture:** N/A  
**Basis:** Wet  
**Analysis Method:** 245.1  
**Unit:** ug/L  
**QC Batch ID:** 8336136  
**MS Sample Aliquot:** 10 mL  
**MS Dilution Factor:** 1

**Client Sample ID:** LAB MS/MSD  
**MS Lab Sample ID:** D8K290110-001S  
**MS Lab WorkOrder:** K3TLX  
**Date/Time Collected:** 11/26/08 09:15  
**Date/Time Received:** 11/29/08 08:30  
**Date Leached:**  
**Date/Time Extracted:** 12/01/08 13:30  
**Date/Time Analyzed:** 12/01/08 17:51  
**Instrument ID:** 019

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
Mercury	5.00	0.027	U	5.43		109		90 - 110

## TestAmerica Irvine

### Dissolved Metals Analysis Data Sheet

**Lab Name:** TESTAMERICA DENVER  
**Lot/SDG Number:** D8K290116  
**Matrix:** WATER  
**% Moisture:** N/A  
**Basis:** Wet  
**Analysis Method:** 245.1  
**Unit:** ug/L  
**QC Batch ID:** 8336136  
**MSD Sample Aliquot:** 10 mL  
**MSD Dilution Factor:** 1

**Client Sample ID:** LAB MS/MSD  
**MSD Lab Sample ID:** D8K290110-001D  
**MSD Lab WorkOrder:** K3TLX  
**Date/Time Collected:** 11/26/08 09:15  
**Date/Time Received:** 11/29/08 08:30  
**Date Leached:**  
**Date/Time Extracted:** 12/01/08 13:30  
**Date/Time Analyzed:** 12/01/08 17:53  
**Instrument ID:** 019

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
Mercury	5.00	0.027	U	5.33		107		1.9		90 - 110	10

**TestAmerica Irvine**

**Dissolved Metals Analysis Data Sheet**

**Lab Name:** TESTAMERICA DENVER  
**Lot/SDG Number:** D8K290116  
**Matrix:** WATER  
**% Moisture:** N/A  
**Basis:** Wet  
**Analysis Method:** 245.1  
**Unit:** ug/L  
**QC Batch ID:** 8336136  
**Sample Aliquot:** 10 mL  
**Dilution Factor:** 1

**Client Sample ID:**  
**Lab Sample ID:** D8L010000-136C  
**Lab WorkOrder:** K3VC1  
**Date/Time Collected:**  
**Date/Time Received:**  
**Date Leached:**  
**Date/Time Extracted:** 12/01/08 13:30  
**Date/Time Analyzed:** 12/01/08 17:46  
**Instrument ID:** 019

Analyte	True	Found	%Rec	Q	Limits
Mercury	5.00	5.16	103		90 - 110

Dissolved Metals Analysis

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DETECTION LIMITS

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: D8K290116

ICP ID Number: \_\_\_\_\_ Date: 1/23/2008

Flame AA ID Number: PE CVAA

Furnace AA ID Number: \_\_\_\_\_

Analyte	Wave-length (nm)	Back-ground	PQL (ug/L)	MDL (ug/L)	M
Mercury	253.70		0.20	0.027	CV

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Dissolved Metals Analysis

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PREPARATION LOG

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: D8K290116

Method: CV Prep Method: \_\_\_\_\_

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
INTRA-LAB QC	12/1/2008	10.0	10.0
LAB MS/MSD MS	12/1/2008	10.0	10.0
LAB MS/MSD MSD	12/1/2008	10.0	10.0
IRK2828-01	12/1/2008	10.0	10.0
MB8336136	12/1/2008	10.0	10.0
Check Sample	12/1/2008	10.0	10.0

Comments:



# Metals

Supporting Documentation

Sample Sequence, Instrument Printouts

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Lot ID: D8K290116

Client: TA - Irvine

Batch(es) #: 0336128 + 8336136

Associated Samples: ~~03~~ 1  
12/2/08

*I certify that, to the best of my knowledge, the attached package represents a complete and accurate copy of the original data.*

Signature/Date: Christopher G. Gidale 12/2/08

## *Metals Raw Data RoadMap*

<i>LotID</i>		<i>Metal</i>	<i>WorkOrder</i>	<i>Anal Date</i>	<i>TestDesc</i>	<i>Batch</i>	<i>File Id</i>	<i>Instr</i>
D8K290116	1	HG	K3TMN1AC	20081201	M2451DS	8336136	081201BA	019
D8K290116	1	HG	K3TMN1AA	20081201	M2451_L	8336128	081201BA	019



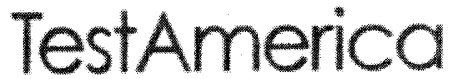
**METALS  
PREPARATION LOGS  
CVAA**

**TestAmerica**

**THE LEADER IN ENVIRONMENTAL TESTING**

**SUPPLEMENTAL METALS PREP SHEET**

(Used in conjunction with METALS PREP LOG/BATCH SUMMARY)



THE LEADER IN ENVIRONMENTAL TESTING  
TestAmerica Denver

**Hg PREP & ANALYSIS - WATERS**

SOP: DEN-MT-0015 QC Batch #: 8336128

Prep Date: 12/01/08		Prep By: CGG		Analysis Date: 12/01/08		Analyst: CGG		
Balance ID: H53865				Thermometer ID: MT 4025				
Digestion Cycles	Start Time	Temp °C	End Time	Temp °C				
	13:30	93	15:30	93				
Purple color persists or black ppt present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If "No", explain in Comments below.								
Digestion Tube Lot # :								
For dissolved mercury only, were samples filtered in the lab? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No								
One or more samples were filtered prior to analysis at the instrument. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No								
If "yes", then the method blank and the LCS were also filtered in the same manner using the same type of filter.								
Analyst(s) Initials: <u>CG</u>								
<b>Reagents Used</b>								
Reagent	Manufacturer	Lot #	Standards Log #	Vol (mL)				
HNO <sub>3</sub>	JT Baker	G17027		0.25				
H <sub>2</sub> SO <sub>4</sub>	Fisher	E49F06		0.5				
HCl	JT Baker	G15040		used by instrument				
1.3% SnCl <sub>2</sub>	Fisher	G01612	STD-6753-08	added by instrument				
NaCl / NH <sub>2</sub> OH	Fisher	G04581	STD-6468-08	0.6				
	Fisher	G02628						
KMnO <sub>4</sub>	Fisher	E28586	STD-6628-08	1.5				
K <sub>2</sub> S <sub>2</sub> O <sub>8</sub>	Fisher	083661	STD-6691-08	0.8				
<b>Parent Calibration Stock Standards</b>								
	Lot #	Verification #	Exp. Date					
Second Source	A2-HG02056	STD-2364-08	06/01/09					
Primary Calibration	H00091	STD-1683-08	05/01/09					
<b>Standards Preparation</b>								
Final digestate volume = 10 ml								
Standards	Final Conc	Parent Standard	Standards Log #	Vol (mL)	Pipette			
Cal Working	10 mg/L	Primary Cal	See Attached Standards Log Printouts	1.00	20			
Daily Cal Working	100 ug/L	Cal Working		1.00	20			
ICAL 0.2	0.2 ug/L	Daily Cal Working		0.2	20			
ICAL 0.5	0.5 ug/L	Daily Cal Working		0.5	20			
ICAL 1	1.0 ug/L	Daily Cal Working		1.0	20			
ICAL 2	2.0 ug/L	Daily Cal Working		2.0	20			
ICAL 5	5.0 ug/L	Daily Cal Working		5.0	19			
ICAL 10	10 ug/L	Daily Cal Working		10.0	19			
CCV	5 ug/L	Daily Cal Working		5.0	20			
ICV Intermed	700 ug/L	ICV Stock		0.70	20			
ICV Daily Working	7.0 ug/L	ICV Intermed		1.00	20			
LCS	5 ug/L	Daily Cal Working		0.5	20			
MS/MSD	5 ug/L	Daily Cal Working		0.5	20			
RL	0.2 ug/L	Daily Cal Working		0.2	20			
<b>Second Source ICV Intermediate Stock Standard Prep</b>								
Standards Log #: STD-6680-08								
NOTE: Details for each reagent & standard prep are documented in the attached Standards Preparation Logbook Record.								
Comments <u>Total - 245.1 - Boiling</u>								
I certify that all information above is correct and complete.								
Signature: <u>Chris Emsdale</u>						Date: <u>12/2/08</u>		
REVIEWED BY: <u>DB</u>						Date: <u>12/2/08</u>		

Batch Number: 8336128

# TestAmerica Laboratories, Inc. Metals Prep Log/ Batch Summary

Prepared By:

CS

Prep Date: 12/01/08 CS  
Due Date: 12/05/08

<u>Lot</u>	<u>Work Order</u>			<u>Initial Weight/Volume</u>
D8L010000 Water	K3VCE	B 1	Due Date: SDG:	<u>10 mL</u>
D8L010000 Water	K3VCE	C 2	Due Date: SDG:	<u>10 mL</u>
D8K290110 Water	K3TLX Total	3	Due Date: 12/05/08 SDG:	<u>10 mL</u>
D8K290110 Water	K3TLX Total	S 4	Due Date: 12/05/08 SDG:	<u>10 mL</u>
D8K290110 Water	K3TLX Total	D 5	Due Date: 12/05/08 SDG:	<u>10 mL</u>
D8K290113 Water	K3TMG Total	6	Due Date: 12/05/08 SDG:	<u>10 mL</u>
D8K290116 Water	K3TMN Total	7	Due Date: 12/05/08 SDG:	<u>10 mL</u>
D8K290118 Water	K3TMW Total	8	Due Date: 12/05/08 SDG:	<u>10 mL</u>
D8K290119 Water	K3TM2 Total	9	Due Date: 12/05/08 SDG:	<u>10 mL</u>

**Comments:**

B-BLANK; C-CHECK SAMPLE; L-CHECK SAMPLE DUPLICATE; P-SERIAL DILUTION; S-MATRIX SPIKE SAMPLE; D-MATRIX SPIKE DUPLICATE SAMPLE

CS 12/11/08

Start	13:30	93°C
End	15:30	93°C

**SUPPLEMENTAL METALS PREP SHEET**  
(Used in conjunction with METALS PREP LOG/BATCH SUMMARY)



**Hg PREP & ANALYSIS - WATERS**

SOP: DEN-MT-0015 QC Batch #: 8336136

Prep Date: 12/01/08		Prep By: CGG		Analysis Date: 12/01/08		Analyst: CGG		
Balance ID: H53865				Thermometer ID: MT 4025				
Digestion Cycles	Start Time	Temp °C	End Time	Temp °C				
	13:30	93	15:30	93				
Purple color persists or black ppt present:		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "No", explain in Comments below.				
<b>Digestion Tube Lot # :</b>								
For dissolved mercury only, were samples filtered in the lab?						<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
One or more samples were filtered prior to analysis at the instrument.						<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
If "yes", then the method blank and the LCS were also filtered in the same manner using the same type of filter.								
Analyst(s) Initials: <span style="border: 1px solid black; display: inline-block; width: 80px; height: 15px;"></span>								
<b>Reagents Used</b>								
Reagent	Manufacturer	Lot #	Standards Log #	Vol (mL)				
HNO <sub>3</sub>	JT Baker	G17027		0.25				
H <sub>2</sub> SO <sub>4</sub>	Fisher	E49F06		0.5				
HCl	JT Baker	G15040		used by instrument				
1.3% SnCl <sub>2</sub>	Fisher	G01612	STD-6753-08	added by instrument				
NaCl / NH <sub>2</sub> OH	Fisher	G04581	STD-6468-08	0.6				
	Fisher	G02628						
KMnO <sub>4</sub>	Fisher	E28586	STD-6628-08	1.5				
K <sub>2</sub> S <sub>2</sub> O <sub>8</sub>	Fisher	083661	STD-6691-08	0.8				
<b>Parent Calibration Stock Standards</b>								
	Lot #	Verification #	Exp. Date					
Second Source	A2-HG02056	STD-2364-08	06/01/09					
Primary Calibration	H00091	STD-1683-08	05/01/09					
<b>Standards Preparation</b>								
Final digestate volume = 10 ml								
Standards	Final Conc	Parent Standard	Standards Log #	Vol (mL)	Pipette			
Cal Working	10 mg/L	Primary Cal	See Attached Standards Log Printouts	1.00	20			
Daily Cal Working	100 ug/L	Cal Working		1.00	20			
ICAL 0.2	0.2 ug/L	Daily Cal Working		0.2	20			
ICAL 0.5	0.5 ug/L	Daily Cal Working		0.5	20			
ICAL 1	1.0 ug/L	Daily Cal Working		1.0	20			
ICAL 2	2.0 ug/L	Daily Cal Working		2.0	20			
ICAL 5	5.0 ug/L	Daily Cal Working		5.0	19			
ICAL 10	10 ug/L	Daily Cal Working		10.0	19			
CCV	5 ug/L	Daily Cal Working		5.0	20			
ICV Intermed	700 ug/L	ICV Stock		0.70	20			
ICV Daily Working	7.0 ug/L	ICV Intermed		1.00	20			
LCS	5 ug/L	Daily Cal Working		0.5	20			
MS/MSD	5 ug/L	Daily Cal Working		0.5	20			
RL	0.2 ug/L	Daily Cal Working		0.2	20			
<b>Second Source ICV Intermediate Stock Standard Prep</b>								
Standards Log #: STD-6680-08								
NOTE: Details for each reagent & standard prep are documented in the attached Standards Preparation Logbook Record.								
<b>Comments</b> <i>Dissolved - 245.1 - Bozings</i>								
I certify that all information above is correct and complete.								
Signature: <i>Chris Goodale</i>						Date: <i>12/2/08</i>		
REVIEWED BY: <i>DB</i>						Date: <i>12/2/08</i>		

Batch Number: 8336136

# TestAmerica Laboratories, Inc. Metals Prep Log/ Batch Summary

Prepared By:     

Prep Date: 12/01/08 ✓

Due Date: 12/04/08

<u>Lot</u>	<u>Work Order</u>			<u>Initial Weight/Volume</u>
D8L010000 Water	K3VC1	B 1	Due Date: SDG:	<u>10 mL</u>
D8L010000 Water	K3VC1	C 2	Due Date: SDG:	<u>10 mL</u>
D8K290116 Water	K3TMN Dissolved	3	Due Date: 12/04/08 SDG:	<u>10 mL</u>
D8K290110 Water	K3TLX Dissolved	4	Due Date: 12/05/08 SDG:	<u>10 mL</u>
D8K290110 Water	K3TLX Dissolved	S 5	Due Date: 12/05/08 SDG:	<u>10 mL</u>
D8K290110 Water	K3TLX Dissolved	D 6	Due Date: 12/05/08 SDG:	<u>10 mL</u>
D8K290113 Water	K3TMG Dissolved	7	Due Date: 12/05/08 SDG:	<u>10 mL</u>
D8K290118 Water	K3TMW Dissolved	8	Due Date: 12/05/08 SDG:	<u>10 mL</u>
D8K290119 Water	K3TM2 Dissolved	9	Due Date: 12/05/08 SDG:	<u>10 mL</u>

**Comments:**

B-BLANK; C-CHECK SAMPLE; L-CHECK SAMPLE DUPLICATE; P-SERIAL DILUTION; S-MATRIX SPIKE SAMPLE; D-MATRIX SPIKE DUPLICATE SAMPLE

**METALS  
SAMPLE DATA  
CVAA**

**TestAmerica**

**THE LEADER IN ENVIRONMENTAL TESTING**

# TestAmerica Denver

## Standards Preparation Logbook Record

Dec-02-2008

Logbook: \\Densvr06\StdsLog\metals.std

### STD1683-08, 1000 mg/L Hg Calibration Stock Standard (Ultra)

Analyst: grisdalec

Vendor: Ultra Scientific (Metals) Lot No.: H00091 Vendor's Expiration Date: 05-01-2009  
Solvent: 2% HN03  
Date Prep./Opened: 04-03-2008 Date Received: 03-31-2008  
Date Expires(1): 04-03-2009 (1 Year)  
Date Expires(2): 05-01-2009 (None)  
Date Verified: 12-31--4714 by 0 (Verification ID: -)

<u>Component</u>	<u>Initial Conc (%)</u>	<u>Final Conc (%)</u>
Mercuric Nitrate	100.00	100.00

### STD2364-08, Hg Inorganic Ventures ICV 100ppm Std

Analyst: grisdalec

Vendor: Inorganic Ventures Lot No.: A2-HG02056 Vendor's Expiration Date: 06-01-2009  
Solvent: 3.3%HCl  
Date Prep./Opened: 05-01-2008 Date Received: 05-02-2007  
Date Expires(1): 05-01-2009 (1 Year)  
Date Expires(2): 06-01-2009 (None)  
Date Verified: 12-31--4714 by 0 (Verification ID: -)

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Hg	100.00	100.00

### STD6679-08, 10 mg/L Hg Calibration Std

Analyst: grisdalec

Solvent: 1% HN03 Lot No.: G02058 Volume (ml): 100.00  
Date Prep./Opened: 11-26-2008  
Date Expires(1): 12-26-2008 (1 Month)  
Date Expires(2): 05-01-2009 (1 Month)  
Date Verified: 12-31--4714 by - (Verification ID: 0)

Parent Std No.: STD1683-08, 1000 mg/L Hg Calibration Stock Standard (Ultra) Aliquot Amount (ml): 1.0000  
Parent Date Expires(1): 04-03-2009 Parent Date Expires(2): 05-01-2009

<u>Component</u>	<u>Initial Conc (%)</u>	<u>Final Conc (mg/L)</u>
Mercuric Nitrate	100.00	10,000

STD6680-08, Hg Inorganic Ventures ICV 700ppb

Analyst: grisdalec

Solvent: 1% HNO3 Lot No.: G02058  
Date Prep./Opened: 11-26-2008  
Date Expires(1): 12-10-2008 (2 Weeks)  
Date Expires(2): 06-01-2009 (None)  
Date Verified: 12-31--4714 by - (Verification ID: 0)

Volume (ml): 100.00

Parent Std No.: STD2364-08, Hg Inorganic Ventures ICV 100ppm Std Aliquot Amount (ml): 0.7000  
Parent Date Expires(1): 05-01-2009 Parent Date Expires(2): 06-01-2009

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Hg	100.00	700.00

STD6744-08, 100 ppb Hg Calibration Std

Analyst: grisdalec

Solvent: 1% HN03 Lot No.: G17027  
Date Prep./Opened: 12-01-2008  
Date Expires(1): 12-02-2008 (1 Day)  
Date Expires(2): 05-01-2009 (None)  
Date Verified: 12-31--4714 by - (Verification ID: 0)

Volume (ml): 100.00

Parent Std No.: STD6679-08, 10 mg/L Hg Calibration Std Aliquot Amount (ml): 1.0000  
Parent Date Expires(1): 12-26-2008 Parent Date Expires(2): 05-01-2009

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/ml)</u>
Mercuric Nitrate	10,000	100.00

STD6745-08, Blank Daily Hg Calibration Std

Analyst: grisdalec

Vendor: Baker Lot No.: G17027  
Solvent: 1% HN03  
Date Prep./Opened: 12-01-2008  
Date Expires(1): 06-01-2009 (6 Months)  
Date Expires(2): 12-01-2009 (1 Year)  
Date Verified: 12-31--4714 by 0 (Verification ID: -)

<u>Component</u>	<u>Initial Conc (%)</u>	<u>Final Conc (%)</u>
Nitric Acid	1.0000	1.0000

STD6746-08, 0.2 ppb Daily Hg Calibration Std

Analyst: grisdalec

Solvent: 1% HN03 Lot No.: G17027  
Date Prep./Opened: 12-01-2008  
Date Expires(1): 12-02-2008 (1 Day)  
Date Expires(2): 05-01-2009 (None)  
Date Verified: 12-31--4714 by - (Verification ID: 0)

Volume (ml): 100.00



Parent Std No.: STD6744-08, 100 ppb Hg Calibration Std Aliquot Amount (ml): 0.2000  
 Parent Date Expires(1): 12-02-2008 Parent Date Expires(2): 05-01-2009

<u>Component</u>	<u>Initial Conc (ug/ml)</u>	<u>Final Conc (ug/ml)</u>
Mercuric Nitrate	100.00	0.2000

STD6747-08, 0.5 ppb Daily Hg Calibration Std Analyst: grisdalec  
 Solvent: 1% HN03 Lot No.: G17027 Volume (ml): 100.00  
 Date Prep./Opened: 12-01-2008  
 Date Expires(1): 12-02-2008 (1 Day)  
 Date Expires(2): 05-01-2009 (None)  
 Date Verified: 12-31--4714 by - (Verification ID: 0)

Parent Std No.: STD6744-08, 100 ppb Hg Calibration Std Aliquot Amount (ml): 0.5000  
 Parent Date Expires(1): 12-02-2008 Parent Date Expires(2): 05-01-2009

<u>Component</u>	<u>Initial Conc (ug/ml)</u>	<u>Final Conc (ug/ml)</u>
Mercuric Nitrate	100.00	0.5000

STD6748-08, 1.0 ppb Daily Hg Calibration Std Analyst: grisdalec  
 Solvent: 1% HN03 Lot No.: G17027 Volume (ml): 100.00  
 Date Prep./Opened: 12-01-2008  
 Date Expires(1): 12-02-2008 (1 Day)  
 Date Expires(2): 05-01-2009 (None)  
 Date Verified: 12-31--4714 by - (Verification ID: 0)

Parent Std No.: STD6744-08, 100 ppb Hg Calibration Std Aliquot Amount (ml): 1.0000  
 Parent Date Expires(1): 12-02-2008 Parent Date Expires(2): 05-01-2009

<u>Component</u>	<u>Initial Conc (ug/ml)</u>	<u>Final Conc (ug/ml)</u>
Mercuric Nitrate	100.00	1.0000

STD6749-08, 2.0 ppb Daily Hg Calibration Std Analyst: grisdalec  
 Solvent: 1% HN03 Lot No.: G17027 Volume (ml): 100.00  
 Date Prep./Opened: 12-01-2008  
 Date Expires(1): 12-02-2008 (1 Day)  
 Date Expires(2): 05-01-2009 (None)  
 Date Verified: 12-31--4714 by - (Verification ID: 0)

Parent Std No.: STD6744-08, 100 ppb Hg Calibration Std Aliquot Amount (ml): 2.0000  
 Parent Date Expires(1): 12-02-2008 Parent Date Expires(2): 05-01-2009

<u>Component</u>	<u>Initial Conc (ug/ml)</u>	<u>Final Conc (ug/ml)</u>
Mercuric Nitrate	100.00	2.0000

STD6750-08, 5.0 ppb Daily Hg Calibration Std

Analyst: grisdalec

Solvent: 1% HN03 Lot No.: G17027  
Date Prep./Opened: 12-01-2008  
Date Expires(1): 12-02-2008 (1 Day)  
Date Expires(2): 05-01-2009 (None)  
Date Verified: 12-31--4714 by - (Verification ID: 0)

Volume (ml): 100.00

Parent Std No.: STD6744-08, 100 ppb Hg Calibration Std  
Parent Date Expires(1): 12-02-2008 Parent Date Expires(2): 05-01-2009

Aliquot Amount (ml): 5.0000

<u>Component</u>	<u>Initial Conc (ug/ml)</u>	<u>Final Conc (ug/ml)</u>
Mercuric Nitrate	100.00	5.0000

STD6751-08, 10.0 ppb Daily Hg Calibration Std

Analyst: grisdalec

Solvent: 1% HN03 Lot No.: G17027  
Date Prep./Opened: 12-01-2008  
Date Expires(1): 12-02-2008 (1 Day)  
Date Expires(2): 05-01-2009 (None)  
Date Verified: 12-31--4714 by - (Verification ID: 0)

Volume (ml): 100.00

Date Consumed: 12-06-2006

Parent Std No.: STD6744-08, 100 ppb Hg Calibration Std  
Parent Date Expires(1): 12-02-2008 Parent Date Expires(2): 05-01-2009

Aliquot Amount (ml): 10.000

<u>Component</u>	<u>Initial Conc (ug/ml)</u>	<u>Final Conc (ug/ml)</u>
Mercuric Nitrate	100.00	10.000

STD6752-08, Hg Daily ICV 7ppb Calibration Std

Analyst: grisdalec

Solvent: 1% HNO3 Lot No.: G17027  
Date Prep./Opened: 12-01-2008  
Date Expires(1): 12-02-2008 (1 Day)  
Date Expires(2): 06-01-2009 (None)  
Date Verified: 12-31--4714 by - (Verification ID: 0)

Volume (ml): 100.00

Parent Std No.: STD6680-08, Hg Inorganic Ventures ICV 700ppb  
Parent Date Expires(1): 12-10-2008 Parent Date Expires(2): 06-01-2009

Aliquot Amount (ml): 0.5000

<u>Component</u>	<u>Initial Conc (ug/L)</u>	<u>Final Conc (ug/L)</u>
Hg	700.00	3.5000

Reviewed By:

Christopher Grisdale 12/12/08

Denver

RUN SUMMARY

Method: CVHG - Mercury (Cold Vapor Mercury)

Instrument: B (019)

Reported: 12/02/08 14:41:32

Sequence: 081201B Date: 12/01/08 16:57 Analyst: cgg ICV: \_\_\_\_\_ CAL/CCV: \_\_\_\_\_

#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Comment	Q
1	Calib Blank 1				0.00	1.0	0.00	ug/L		12/01/08 16:57		
2	STD1 = 0.200				0.00	1.0	0.00	ug/L		12/01/08 16:58		
3	STD2 = 0.500				0.00	1.0	0.00	ug/L		12/01/08 17:00		
4	STD3 = 1.00				0.00	1.0	0.00	ug/L		12/01/08 17:02		
5	STD4 = 2.00				0.00	1.0	0.00	ug/L		12/01/08 17:04		
6	STD5 = 5.00				0.00	1.0	0.00	ug/L		12/01/08 17:05		
7	STD6 = 10.0				0.00	1.0	0.00	ug/L		12/01/08 17:07		
8	<del>CCV = 5.00 to STD</del>				<del>9.96</del>	<del>1.0</del>	<del>9.96</del>	<del>ug/L</del>	<del>100.2%</del>	<del>12/01/08 17:09</del>	NA vs 12/12/08	
9	CCV = 5.00				5.15	1.0	5.15	ug/L	103.0%	12/01/08 17:11		
10	CCV = 5.00				5.15	1.0	5.15	ug/L	103.0%	12/01/08 17:11		
11	ICB				0.02	1.0	0.02	ug/L		12/01/08 17:14		
12	ICV = 7.00				7.10	1.0	7.10	ug/L	101.4%	12/01/08 17:16		
13	RL = 0.200			AQUEOUS	0.14	1.0	0.14	ug/L		12/01/08 17:17		
14	CCV = 5.00				5.15	1.0	5.15	ug/L	102.9%	12/01/08 17:19		
15	CCB		8336128		0.01	1.0	0.01	ug/L		12/01/08 17:21	Bad Read	
16	K3VCEB D8L010000 = 5.00		8336128		0.01	1.0	0.01	ug/L		12/01/08 17:23		
17	<del>K3VCEC D8K290110-1 = 5.00</del>		<del>8336128</del>		<del>0.08</del>	<del>1.0</del>	<del>0.08</del>	<del>ug/L</del>	<del>1.6%</del>	<del>12/01/08 17:24</del>	NA vs 12/12/08	
18	K3VCEC D8L010000 = 5.00		8336128		5.27	1.0	5.27	ug/L	105.4%	12/01/08 17:27		
19	K3TLX D8K290110-1		8336128	AQUEOUS	0.02	1.0	0.02	ug/L		12/01/08 17:28		
20	K3TLXS D8K290110-1 = 5.00		8336128	AQUEOUS	5.41	1.0	5.41	ug/L		12/01/08 17:30		
21	K3TLXD D8K290110-1 = 5.00		8336128	AQUEOUS	5.41	1.0	5.41	ug/L		12/01/08 17:32		
22	K3TMG D8K290113-1		8336128	AQUEOUS	0.05	1.0	0.05	ug/L		12/01/08 17:33		
23	K3TMN D8K290116-1		8336128	AQUEOUS	0.02	1.0	0.02	ug/L		12/01/08 17:35		
24	K3TMW D8K290118-1		8336128	AQUEOUS	0.08	1.0	0.08	ug/L		12/01/08 17:37		
25	CCV = 5.00				5.45	1.0	5.45	ug/L	109.1%	12/01/08 17:39		
26	CCB				-0.00	1.0	-0.00	ug/L		12/01/08 17:40		
27	K3TM2 D8K290119-1		8336128	AQUEOUS	0.03	1.0	0.03	ug/L		12/01/08 17:42		
28	K3VC1BF D8L010000		8336136		-0.02	1.0	-0.02	ug/L		12/01/08 17:44		
29	K3VC1CF D8L010000 = 5.00		8336136		5.16	1.0	5.16	ug/L	103.2%	12/01/08 17:46		
30	K3TMNF D8K290116-1		8336136	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 17:47		
31	K3TLXF D8K290110-1		8336136	AQUEOUS	0.00	1.0	0.00	ug/L		12/01/08 17:49		
32	K3TLXSF D8K290110-1 = 5.00		8336136	AQUEOUS	5.43	1.0	5.43	ug/L		12/01/08 17:51		
33	K3TLXDF D8K290110-1 = 5.00		8336136	AQUEOUS	5.33	1.0	5.33	ug/L		12/01/08 17:53		
34	K3TMGF D8K290113-1		8336136	AQUEOUS	0.00	1.0	0.00	ug/L		12/01/08 17:54		

JS 12/12/08

Denver

Method: CVHG - Mercury (Cold Vapor Mercury)

Instrument: B (019)

Sequence: 081201B Date: 12/01/08 16:57

Analyst: cgg

Reported: 12/02/08 14:41:32

CAL/CCV: \_\_\_\_\_

ICV: \_\_\_\_\_

ICV: \_\_\_\_\_

#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Comment	Q
35	CCV = 5.00				5.36	1.0	5.36	ug/L	107.2%	12/01/08 17:56		
36	CCB				0.02	1.0	0.02	ug/L		12/01/08 17:58		
37	K3TMWF D8K290118-1		8336136	AQUEOUS	0.05	1.0	0.05	ug/L		12/01/08 18:00		
38	K3TM2F D8K290119-1		8336136	AQUEOUS	0.02	1.0	0.02	ug/L		12/01/08 18:01		
39	K3PQ3BF D8K260000		8331315		0.00	1.0	0.00	ug/L		12/01/08 18:03		
40	K3PQ3CF D8K260000 = 5.00		8331315		4.92	1.0	4.92	ug/L	98.3%	12/01/08 18:05		
41	K27P1F D8K180334-2		8331315	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 18:06		
42	K27P4F D8K180334-4		8331315	AQUEOUS	-0.01	1.0	-0.01	ug/L		12/01/08 18:08		
43	K27P4SF D8K180334-4 = 5.00		8331315	AQUEOUS	5.00	1.0	5.00	ug/L		12/01/08 18:10		
44	K27P4DF D8K180334-4 = 5.00		8331315	AQUEOUS	5.41	1.0	5.41	ug/L		12/01/08 18:12		
45	CCV = 5.00				5.27	1.0	5.27	ug/L	105.4%	12/01/08 18:13		
46	CCB				0.01	1.0	0.01	ug/L		12/01/08 18:15		
47	K27P8F D8K180334-7		8331315	AQUEOUS	0.03	1.0	0.03	ug/L		12/01/08 18:17		
48	K27QEF D8K180334-10		8331315	AQUEOUS	-0.00	1.0	-0.00	ug/L		12/01/08 18:19		
49	K27QHF D8K180334-12		8331315	AQUEOUS	0.02	1.0	0.02	ug/L		12/01/08 18:20		
50	K27QKF D8K180334-14		8331315	AQUEOUS	0.00	1.0	0.00	ug/L		12/01/08 18:22		
51	K27QNF D8K180334-16		8331315	AQUEOUS	-0.01	1.0	-0.01	ug/L		12/01/08 18:24		
52	K27QRF D8K180334-18		8331315	AQUEOUS	-0.01	1.0	-0.01	ug/L		12/01/08 18:26		
53	K27QWF D8K180334-20		8331315	AQUEOUS	-0.01	1.0	-0.01	ug/L		12/01/08 18:27		
54	K27Q3F D8K180334-22		8331315	AQUEOUS	0.02	1.0	0.02	ug/L		12/01/08 18:29		
55	CCV = 5.00				4.93	1.0	4.93	ug/L	98.5%	12/01/08 18:31		
56	CCB				0.00	1.0	0.00	ug/L		12/01/08 18:33		
57	K27Q6F D8K180334-24		8331315	AQUEOUS	0.00	1.0	0.00	ug/L		12/01/08 18:34		
58	K27RNF D8K180334-27		8331315	AQUEOUS	0.03	1.0	0.03	ug/L		12/01/08 18:36		
59	K27RVF D8K180334-29		8331315	AQUEOUS	-0.00	1.0	-0.00	ug/L		12/01/08 18:38		
60	K27R3F D8K180334-31		8331315	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 18:39		
61	K27R8F D8K180334-33		8331315	AQUEOUS	0.00	1.0	0.00	ug/L		12/01/08 18:41		
62	K3PQFBF D8K260000		8331312		-0.01	1.0	-0.01	ug/L		12/01/08 18:43		
63	K3PQFCF D8K260000 = 5.00		8331312		4.77	1.0	4.77	ug/L	95.4%	12/01/08 18:45		
64	K27JKF D8K180325-2		8331312	AQUEOUS	-0.01	1.0	-0.01	ug/L		12/01/08 18:46		
65	CCV = 5.00				4.72	1.0	4.72	ug/L	94.4%	12/01/08 18:48		
66	CCB				-0.01	1.0	-0.01	ug/L		12/01/08 18:50		
67	K27JMF D8K180325-4		8331312	AQUEOUS	0.00	1.0	0.00	ug/L		12/01/08 18:51		
68	K27JPF D8K180325-6		8331312	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 18:53		

12/12/08

Denver

RUN SUMMARY

Method: CVHG - Mercury (Cold Vapor Mercury)

Instrument: B (019)

Reported: 12/02/08 14:41:32

Sequence:	081201B	Date:	12/01/08 16:57	Analyst:	cgg	ICV:	CAL/CCV:					
#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Comment	Q
69	K27JRF	D8K180325-8	8331312	AQUEOUS	0.02	1.0	0.02	ug/L		12/01/08 18:55		
70	K27JVF	D8K180325-10	8331312	AQUEOUS	0.00	1.0	0.00	ug/L		12/01/08 18:57		
71	K27JXF	D8K180325-12	8331312	AQUEOUS	0.00	1.0	0.00	ug/L		12/01/08 18:58		
72	K27J1F	D8K180325-14	8331312	AQUEOUS	0.00	1.0	0.00	ug/L		12/01/08 19:00		
73	K3AH3F	D8K190375-2	8331312	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 19:02		
74	K3AH5F	D8K190375-4	8331312	AQUEOUS	-0.00	1.0	-0.00	ug/L		12/01/08 19:04		
75	CCV	= 5.00			5.10	1.0	5.10	ug/L	102.1%	12/01/08 19:05		
76	CCB				0.04	1.0	0.04	ug/L		12/01/08 19:07		
77	K3AH7F	D8K190375-6	8331312	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 19:09		
78	K3AH9F	D8K190375-8	8331312	AQUEOUS	-0.00	1.0	-0.00	ug/L		12/01/08 19:10		
79	K3AJCF	D8K190375-10	8331312	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 19:12		
80	K3AJEF	D8K190375-12	8331312	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 19:14		
81	K3AJGF	D8K190375-14	8331312	AQUEOUS	-0.00	1.0	-0.00	ug/L		12/01/08 19:16		
82	K3AJJF	D8K190375-16	8331312	AQUEOUS	-0.03	1.0	-0.03	ug/L		12/01/08 19:17		
83	K3AJJSF	D8K190375-16 = 5.00	8331312	AQUEOUS	4.89	1.0	4.89	ug/L		12/01/08 19:19		
84	K3AJJDF	D8K190375-16 = 5.00	8331312	AQUEOUS	5.21	1.0	5.21	ug/L		12/01/08 19:21		
85	CCV	= 5.00			5.19	1.0	5.19	ug/L	103.8%	12/01/08 19:22		
86	CCB				-0.00	1.0	-0.00	ug/L		12/01/08 19:24		
87	K3AJLF	D8K190375-18	8331312	AQUEOUS	-0.01	1.0	-0.01	ug/L		12/01/08 19:26		
88	K3PTRBF	D8K260000	8331308	AQUEOUS	0.00	1.0	0.00	ug/L		12/01/08 19:28		
89	K3PTRCF	D8K260000 = 5.00	8331308	AQUEOUS	4.88	1.0	4.88	ug/L	97.6%	12/01/08 19:29		
90	K3PTRLF	D8K260000 = 5.00	8331308	AQUEOUS	4.74	1.0	4.74	ug/L	94.8%	12/01/08 19:31		
91	K3GNF	D8K210371-1	8331308	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 19:33		
92	K3GPF	D8K210371-2	8331308	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 19:35		
93	K3GPGF	D8K210371-3	8331308	AQUEOUS	-0.02	1.0	-0.02	ug/L		12/01/08 19:36		
94	K3GPJF	D8K210371-4	8331308	AQUEOUS	0.03	1.0	0.03	ug/L		12/01/08 19:38		
95	CCV	= 5.00			4.88	1.0	4.88	ug/L	97.6%	12/01/08 19:40		
96	CCB				0.01	1.0	0.01	ug/L		12/01/08 19:42		
97	K3HPWF	D8K220156-1	8331308	AQUEOUS	0.03	1.0	0.03	ug/L		12/01/08 19:43		
98	K3HP2F	D8K220156-2	8331308	AQUEOUS	0.07	1.0	0.07	ug/L		12/01/08 19:45		
99	K3E1MF	D8K210170-1	8331308	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 19:47		
100	K3CHGF	D8K200187-1	8331308	AQUEOUS	-0.01	1.0	-0.01	ug/L		12/01/08 19:48		
101	K3CHVF	D8K200187-2	8331308	AQUEOUS	-0.01	1.0	-0.01	ug/L		12/01/08 19:50		
102	K3CHTF	D8K200187-3	8331308	AQUEOUS	-0.02	1.0	-0.02	ug/L		12/01/08 19:52		

✓ CGS 12/2/08

06/2/08

Denver

RUN SUMMARY

Method: CVHG - Mercury (Cold Vapor Mercury) Instrument: B (019) Reported: 12/02/08 14:41:32

Sequence:	081201B	Date:	12/01/08 16:57	Analyst:	cgj	ICV:	CAL/CCV:				
#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Comment
103	K3GJAF	D8K200187-4	8331308	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 19:53	
104	K3ETFF	D8K210153-2	8331308	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 19:55	12/2/08
105	CCV	= 5.00			4.85	1.0	4.85	ug/L	97.1%	12/01/08 19:57	12/2/08
106	CCB				0.01	1.0	0.01	ug/L		12/01/08 19:59	
107	K3ETWF	D8K210153-3	8331308	AQUEOUS	0.00	1.0	0.00	ug/L		12/01/08 20:00	
108	K3ET0F	D8K210153-4	8331308	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 20:02	
109	K3ET0SF	D8K210153-4 = 5.00	8331308	AQUEOUS	0.49	1.0	0.49	ug/L		12/01/08 20:04	
110	K3ET0DF	D8K210153-4 = 5.00	8331308	AQUEOUS	4.74	1.0	4.74	ug/L		12/01/08 20:06	
111	K3ET3F	D8K210153-5	8331308	AQUEOUS	-0.00	1.0	-0.00	ug/L		12/01/08 20:07	
112	K3LLE	D8K250T26-12	8331308	AQUEOUS	0.00	1.0	0.00	ug/L		12/01/08 20:09	12/2/08
113	K3PQ8BF	D8K260000	8331319		0.03	1.0	0.03	ug/L		12/01/08 20:11	
114	K3PQ8CF	D8K260000 = 5.00	8331319		4.75	1.0	4.75	ug/L	95.0%	12/01/08 20:12	
115	CCV	= 5.00			4.79	1.0	4.79	ug/L	95.7%	12/01/08 20:14	
116	CCB				0.01	1.0	0.01	ug/L		12/01/08 20:16	
117	K3D1RF	D8K200325-2	8331319	AQUEOUS	-0.00	1.0	-0.00	ug/L		12/01/08 20:17	
118	K3D1WF	D8K200325-4	8331319	AQUEOUS	-0.01	1.0	-0.01	ug/L		12/01/08 20:19	
119	K3D10F	D8K200325-6	8331319	AQUEOUS	0.03	1.0	0.03	ug/L		12/01/08 20:21	
120	K3D12F	D8K200325-8	8331319	AQUEOUS	0.00	1.0	0.00	ug/L		12/01/08 20:22	
121	K3D15F	D8K200325-10	8331319	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 20:24	
122	K3D18F	D8K200325-12	8331319	AQUEOUS	0.00	1.0	0.00	ug/L		12/01/08 20:26	
123	K3D2EF	D8K200325-14	8331319	AQUEOUS	-0.01	1.0	-0.01	ug/L		12/01/08 20:28	
124	K3D2GF	D8K200325-16	8331319	AQUEOUS	-0.01	1.0	-0.01	ug/L		12/01/08 20:29	
125	CCV	= 5.00			5.15	1.0	5.15	ug/L	103.0%	12/01/08 20:31	
126	CCB				-0.01	1.0	-0.01	ug/L		12/01/08 20:33	
127	K3D2LF	D8K200325-18	8331319	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 20:34	
128	K3GXFF	D8K210389-2	8331319	AQUEOUS	0.02	1.0	0.02	ug/L		12/01/08 20:36	
129	K3GXHF	D8K210389-4	8331319	AQUEOUS	-0.01	1.0	-0.01	ug/L		12/01/08 20:38	
130	K3GXKF	D8K210389-6	8331319	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 20:40	
131	K3K1RF	D8K240188-2	8331319	AQUEOUS	-0.01	1.0	-0.01	ug/L		12/01/08 20:41	
132	K3K1RSF	D8K240188-2 = 5.00	8331319	AQUEOUS	4.82	1.0	4.82	ug/L		12/01/08 20:43	
133	K3K1RDF	D8K240188-2 = 5.00	8331319	AQUEOUS	4.86	1.0	4.86	ug/L		12/01/08 20:45	
134	K3K1XF	D8K240188-4	8331319	AQUEOUS	-0.00	1.0	-0.00	ug/L		12/01/08 20:46	
135	CCV	= 5.00			4.88	1.0	4.88	ug/L	97.5%	12/01/08 20:48	
136	CCB				-0.01	1.0	-0.01	ug/L		12/01/08 20:50	

✓ 12/2/08

Denver

Method: CVHG - Mercury (Cold Vapor Mercury)

Instrument: B (019)

Reported: 12/02/08 14:41:32

Sequence: 081201B Date: 12/01/08 16:57 Analyst: cgg ICV: CAL/CCV: Comment

#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Q
137	K3K11F	D8K240188-6	8331319	AQUEOUS	0.00	1.0	0.00	ug/L		12/01/08 20:52	<input type="checkbox"/>
138	K3K13F	D8K240188-8	8331319	AQUEOUS	0.02	1.0	0.02	ug/L		12/01/08 20:53	<input type="checkbox"/>
139	K3PMEB	D8K260000	8331298		0.01	1.0	0.01	ug/L		12/01/08 20:55	<input type="checkbox"/>
140	K3PMEC	D8K260000 = 5.00	8331298		4.77	1.0	4.77	ug/L	95.4%	12/01/08 20:57	<input type="checkbox"/>
141	K27P0	D8K180334-1	8331298	AQUEOUS	-0.00	1.0	-0.00	ug/L		12/01/08 20:58	<input type="checkbox"/>
142	K27P2	D8K180334-3	8331298	AQUEOUS	0.02	1.0	0.02	ug/L		12/01/08 21:00	<input type="checkbox"/>
143	K27P2S	D8K180334-3 = 5.00	8331298	AQUEOUS	4.78	1.0	4.78	ug/L		12/01/08 21:02	<input type="checkbox"/>
144	K27P2D	D8K180334-3 = 5.00	8331298	AQUEOUS	5.19	1.0	5.19	ug/L		12/01/08 21:03	<input type="checkbox"/>
145	CCV	= 5.00			5.05	1.0	5.05	ug/L	101.1%	12/01/08 21:05	<input type="checkbox"/>
146	CCB				0.01	1.0	0.01	ug/L		12/01/08 21:07	<input type="checkbox"/>
147	K27P5	D8K180334-5	8331298	AQUEOUS	0.72	1.0	0.72	ug/L		12/01/08 21:09	<input type="checkbox"/>
148	K27P7	D8K180334-6	8331298	AQUEOUS	0.76	1.0	0.76	ug/L		12/01/08 21:10	<input type="checkbox"/>
149	K27P9	D8K180334-8	8331298	AQUEOUS	-0.00	1.0	-0.00	ug/L		12/01/08 21:12	<input type="checkbox"/>
150	K27QA	D8K180334-9	8331298	AQUEOUS	-0.02	1.0	-0.02	ug/L		12/01/08 21:14	<input type="checkbox"/>
151	K27QF	D8K180334-11	8331298	AQUEOUS	-0.01	1.0	-0.01	ug/L		12/01/08 21:16	<input type="checkbox"/>
152	K27QJ	D8K180334-13	8331298	AQUEOUS	0.68	1.0	0.68	ug/L		12/01/08 21:17	<input type="checkbox"/>
153	K27QL	D8K180334-15	8331298	AQUEOUS	0.02	1.0	0.02	ug/L		12/01/08 21:19	<input type="checkbox"/>
154	K27QP	D8K180334-17	8331298	AQUEOUS	-0.01	1.0	-0.01	ug/L		12/01/08 21:20	<input type="checkbox"/>
155	CCV	= 5.00			5.50	1.0	5.50	ug/L	110.1%	12/01/08 21:22	<input type="checkbox"/>
156	CCB				-0.01	1.0	-0.01	ug/L		12/01/08 21:24	<input type="checkbox"/>
157	K27QV	D8K180334-19	8331298	AQUEOUS	0.06	1.0	0.06	ug/L		12/01/08 21:26	<input type="checkbox"/>
158	K27QX	D8K180334-21	8331298	AQUEOUS	0.02	1.0	0.02	ug/L		12/01/08 21:27	<input type="checkbox"/>
159	K27Q4	D8K180334-23	8331298	AQUEOUS	0.02	1.0	0.02	ug/L		12/01/08 21:29	<input type="checkbox"/>
160	K27RA	D8K180334-26	8331298	AQUEOUS	0.03	1.0	0.03	ug/L		12/01/08 21:31	<input type="checkbox"/>
161	K27RP	D8K180334-28	8331298	AQUEOUS	0.02	1.0	0.02	ug/L		12/01/08 21:32	<input type="checkbox"/>
162	K27RX	D8K180334-30	8331298	AQUEOUS	0.03	1.0	0.03	ug/L		12/01/08 21:34	<input type="checkbox"/>
163	K27R5	D8K180334-32	8331298	AQUEOUS	0.03	1.0	0.03	ug/L		12/01/08 21:36	<input type="checkbox"/>
164	K3PL2B	D8K260000	8331295		0.02	1.0	0.02	ug/L		12/01/08 21:37	<input type="checkbox"/>
165	CCV	= 5.00			5.15	1.0	5.15	ug/L	103.0%	12/01/08 21:39	<input type="checkbox"/>
166	CCB				-0.01	1.0	-0.01	ug/L		12/01/08 21:41	<input type="checkbox"/>
167	K3PL2C	D8K260000 = 5.00	8331295		5.17	1.0	5.17	ug/L	103.4%	12/01/08 21:43	<input type="checkbox"/>
168	K27JC	D8K180325-1	8331295	AQUEOUS	0.07	1.0	0.07	ug/L		12/01/08 21:44	<input type="checkbox"/>
169	K27JL	D8K180325-3	8331295	AQUEOUS	0.05	1.0	0.05	ug/L		12/01/08 21:46	<input type="checkbox"/>
170	K27JN	D8K180325-5	8331295	AQUEOUS	0.16	1.0	0.16	ug/L		12/01/08 21:48	<input type="checkbox"/>

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Denver

RUN SUMMARY

Method: CVHG - Mercury (Cold Vapor Mercury) Instrument: B (019) Reported: 12/02/08 14:41:32

Sequence:	081201B	Date:	12/01/08 16:57	Analyst:	cgg	ICV:	CAL/CCV:					
#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Comment	Q
171	K27JQ	D8K180325-7	8331295	AQUEOUS	0.02	1.0	0.02	ug/L		12/01/08 21:49		
172	K27JT	D8K180325-9	8331295	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 21:51		
173	K27JW	D8K180325-11	8331295	AQUEOUS	0.00	1.0	0.00	ug/L		12/01/08 21:53		
174	K27J0	D8K180325-13	8331295	AQUEOUS	0.02	1.0	0.02	ug/L		12/01/08 21:54		
175	CCV	= 5.00			5.38	1.0	5.38	ug/L	107.5%	12/01/08 21:56		
176	CCB				-0.01	1.0	-0.01	ug/L		12/01/08 21:58		
177	K3AH2	D8K190375-1	8331295	AQUEOUS	0.03	1.0	0.03	ug/L		12/01/08 22:00		
178	K3AH4	D8K190375-3	8331295	AQUEOUS	0.02	1.0	0.02	ug/L		12/01/08 22:01		
179	K3AH6	D8K190375-5	8331295	AQUEOUS	-0.01	1.0	-0.01	ug/L		12/01/08 22:03		
180	K3AH8	D8K190375-7	8331295	AQUEOUS	0.03	1.0	0.03	ug/L		12/01/08 22:05		
181	K3AJA	D8K190375-9	8331295	AQUEOUS	0.00	1.0	0.00	ug/L		12/01/08 22:06		
182	K3AJD	D8K190375-11	8331295	AQUEOUS	-0.00	1.0	-0.00	ug/L		12/01/08 22:08		
183	K3AJF	D8K190375-13	8331295	AQUEOUS	0.09	1.0	0.09	ug/L		12/01/08 22:10		
184	K3AJH	D8K190375-15	8331295	AQUEOUS	0.12	1.0	0.12	ug/L		12/01/08 22:11		
185	CCV	= 5.00			5.61	1.0	5.61	ug/L	112.1%	12/01/08 22:13		
186	CCB				0.05	1.0	0.05	ug/L		12/01/08 22:15		
187	K3AJS	D8K190375-15 = 5.00	8331295	AQUEOUS	4.48	1.0	4.48	ug/L		12/01/08 22:17		
188	K3AJD	D8K190375-15 = 5.00	8331295	AQUEOUS	4.68	1.0	4.68	ug/L		12/01/08 22:18		
189	K3AJK	D8K190375-17	8331295	AQUEOUS	-0.00	1.0	-0.00	ug/L		12/01/08 22:20		
190	K3KXTB	D8K240000	8329556		0.04	1.0	0.04	ug/L		12/01/08 22:22		
191	K3KXTC	D8K240000 = 5.00	8329556		5.32	1.0	5.32	ug/L	106.4%	12/01/08 22:23		
192	K3DPX	D8K200302-1	8329556	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 22:25		
193	K3DPXS	D8K200302-1 = 5.00	8329556	AQUEOUS	5.16	1.0	5.16	ug/L		12/01/08 22:27		
194	K3DPXD	D8K200302-1 = 5.00	8329556	AQUEOUS	5.18	1.0	5.18	ug/L		12/01/08 22:28		
195	CCV	= 5.00			5.23	1.0	5.23	ug/L	104.5%	12/01/08 22:30		
196	CCB				0.02	1.0	0.02	ug/L		12/01/08 22:32		
197	K3DQE	D8K200302-2	8329556	AQUEOUS	0.02	1.0	0.02	ug/L		12/01/08 22:33		
198	K3DQG	D8K200302-3	8329556	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 22:35		
199	K3DQJ	D8K200302-4	8329556	AQUEOUS	0.02	1.0	0.02	ug/L		12/01/08 22:37		
200	K3DQL	D8K200302-5	8329556	AQUEOUS	0.02	1.0	0.02	ug/L		12/01/08 22:38		
201	K3DQM	D8K200302-6	8329556	AQUEOUS	0.04	1.0	0.04	ug/L		12/01/08 22:40		
202	K3DQP	D8K200302-7	8329556	AQUEOUS	0.00	1.0	0.00	ug/L		12/01/08 22:42		
203	K3DQR	D8K200302-8	8329556	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 22:44		
204	K3DQV	D8K200302-9	8329556	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 22:45		

See 12/2/08



**RUN SUMMARY**

Denver

Method: CVHG - Mercury (Cold Vapor Mercury)

Instrument: B (019)

Reported: 12/02/08 14:41:32

Sequence: **081201B** Date: **12/01/08 16:57** Analyst: **cgj** ICV: \_\_\_\_\_ CAL/CCV: \_\_\_\_\_ Comment

#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Q
205	CCV = 5.00				5.27	1.0	5.27	ug/L	105.4%	12/01/08 22:47	
206	CCB				0.01	1.0	0.01	ug/L		12/01/08 22:49	
207	K3DQ0 D8K200302-10		8329556	AQUEOUS	0.02	1.0	0.02	ug/L		12/01/08 22:50	
208	K3DQ3 D8K200302-11		8329556	AQUEOUS	-0.01	1.0	-0.01	ug/L		12/01/08 22:52	
209	K3EPQ D8K210139-1		8329556	AQUEOUS	-0.01	1.0	-0.01	ug/L		12/01/08 22:54	
210	K3EPX D8K210142-1		8329556	AQUEOUS	-0.02	1.0	-0.02	ug/L		12/01/08 22:56	
211	<del>K3PM5B D8K260000</del>		<del>8331301</del>		<del>5.25</del>	<del>1.0</del>	<del>5.25</del>	<del>ug/L</del>		<del>12/01/08 22:57</del>	
212	K3PM5C D8K260000 = 5.00		8331301		0.23	1.0	0.23	ug/L	4.5%	12/01/08 22:59	
213	K3D1N D8K200325-1		8331301	AQUEOUS	0.00	1.0	0.00	ug/L		12/01/08 23:01	
214	K3D1T D8K200325-3		8331301	AQUEOUS	0.04	1.0	0.04	ug/L		12/01/08 23:02	
215	CCV = 5.00				5.24	1.0	5.24	ug/L	104.8%	12/01/08 23:04	
216	CCB				0.01	1.0	0.01	ug/L		12/01/08 23:06	
217	K3D1X D8K200325-5		8331301	AQUEOUS	0.05	1.0	0.05	ug/L		12/01/08 23:08	
218	K3D11 D8K200325-7		8331301	AQUEOUS	0.00	1.0	0.00	ug/L		12/01/08 23:09	
219	K3D13 D8K200325-9		8331301	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 23:11	
220	K3D16 D8K200325-11		8331301	AQUEOUS	-0.00	1.0	-0.00	ug/L		12/01/08 23:13	
221	K3D19 D8K200325-13		8331301	AQUEOUS	0.03	1.0	0.03	ug/L		12/01/08 23:15	
222	K3D2F D8K200325-15		8331301	AQUEOUS	0.00	1.0	0.00	ug/L		12/01/08 23:16	
223	K3D2K D8K200325-17		8331301	AQUEOUS	0.02	1.0	0.02	ug/L		12/01/08 23:18	
224	K3GWP D8K210389-1		8331301	AQUEOUS	0.03	1.0	0.03	ug/L		12/01/08 23:20	
225	CCV = 5.00				5.31	1.0	5.31	ug/L	106.3%	12/01/08 23:22	
226	CCB				0.01	1.0	0.01	ug/L		12/01/08 23:23	
227	K3GXG D8K210389-3		8331301	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 23:25	
228	K3GXJ D8K210389-5		8331301	AQUEOUS	0.03	1.0	0.03	ug/L		12/01/08 23:27	
229	K3K1P D8K240188-1		8331301	AQUEOUS	5.29	1.0	5.29	ug/L		12/01/08 23:29	
230	K3K1PS D8K240188-1 = 5.00		8331301	AQUEOUS	5.46	1.0	5.46	ug/L		12/01/08 23:30	
231	K3K1PD D8K240188-1 = 5.00		8331301	AQUEOUS	0.16	1.0	0.16	ug/L		12/01/08 23:32	
232	K3K1T D8K240188-3		8331301	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 23:34	
233	K3K10 D8K240188-5		8331301	AQUEOUS	0.03	1.0	0.03	ug/L		12/01/08 23:35	
234	K3K12 D8K240188-7		8331301	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 23:37	
235	CCV = 5.00				5.31	1.0	5.31	ug/L	106.2%	12/01/08 23:39	
236	CCB				0.01	1.0	0.01	ug/L		12/01/08 23:41	
237	K3KXPB D8K240000		8329551		5.68	1.0	5.68	ug/L		12/01/08 23:42	
238	K3KXPG D8K240000 = 5.00		8329551		-0.02	1.0	-0.02	ug/L	-0.4%	12/01/08 23:44	

NA on 12/12/08

Re-prepare

Denver

RUN SUMMARY

Method: CVHG - Mercury (Cold Vapor Mercury) Instrument: B (019) Reported: 12/02/08 14:41:32

Sequence:	081201B	Date:	12/01/08 16:57	Analyst:	cgg	ICV:	_____	CAL/CCV:	_____			
#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Comment	Q
239	<del>K29F8</del>	<del>D8K1901171-1</del>	8329551	AQUEOUS	0.53	1.0	0.53	ug/L		12/01/08 23:46		<input type="checkbox"/>
240	K29P8S	D8K1901171-1 = 5.00	8329551	AQUEOUS	<del>0.54</del>	1.0	<del>0.54</del>	ug/L		<del>12/01/08 23:48</del>		<input type="checkbox"/>
241	K29P8D	D8K1901171-1 = 5.00	8329551	AQUEOUS	-0.01	1.0	-0.01	ug/L		12/01/08 23:49		<input type="checkbox"/>
242	K29QE	D8K1901171-2	8329551	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 23:51		<input type="checkbox"/>
243	K29WT	D8K190312-1	8329551	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 23:53		<input type="checkbox"/>
244	K29W1	D8K190312-2	8329551	AQUEOUS	0.01	1.0	0.01	ug/L		12/01/08 23:55		<input type="checkbox"/>
245	CCV	= 5.00			5.56	1.0	5.56	ug/L	111.1%	12/01/08 23:56		<input type="checkbox"/>
246	CCB				0.00	1.0	0.00	ug/L		12/01/08 23:58		<input type="checkbox"/>
247	K29W2	D8K190312-3	8329551	AQUEOUS	0.01	1.0	0.01	ug/L		12/02/08 00:00	NA	<input type="checkbox"/>
248	K29W7	D8K190312-4	8329551	AQUEOUS	0.01	1.0	0.01	ug/L		12/02/08 00:01	CS R12/2/08	<input type="checkbox"/>
249	K3AAV	D8K190349-1	8329551	AQUEOUS	0.01	1.0	0.01	ug/L		12/02/08 00:03	REP-efano	<input type="checkbox"/>
250	K3AGE	D8K190369-2	8329551	AQUEOUS	0.00	1.0	0.00	ug/L		12/02/08 00:05		<input type="checkbox"/>
251	K3AGF	D8K190369-3	8329551	AQUEOUS	0.07	1.0	0.07	ug/L		12/02/08 00:07		<input type="checkbox"/>
252	K3C2F	D8K200237-1	8329551	AQUEOUS	-0.01	1.0	-0.01	ug/L		12/02/08 00:08		<input type="checkbox"/>
253	K3C2M	D8K200237-2	8329551	AQUEOUS	0.01	1.0	0.01	ug/L		12/02/08 00:10		<input type="checkbox"/>
254	K3C2P	D8K200237-3	8329551	AQUEOUS	-0.01	1.0	-0.01	ug/L		12/02/08 00:12		<input type="checkbox"/>
255	CCV	= 5.00			5.67	1.0	5.67	ug/L	113.5%	12/02/08 00:13		<input type="checkbox"/>
256	CCB				0.00	1.0	0.00	ug/L		12/02/08 00:15		<input type="checkbox"/>
257	K3DF9	D8K200276-1	8329551	AQUEOUS	0.02	1.0	0.02	ug/L		12/02/08 00:17		<input type="checkbox"/>
258	K3PKFB	D8K260000	8331289		0.02	1.0	0.02	ug/L		12/02/08 00:19		<input type="checkbox"/>
259	K3PKFC				5.88	1.0	5.88	ug/L		12/02/08 00:20		<input type="checkbox"/>
260	K3PKFL	D8K260000 = 5.00	8331289		5.79	1.0	5.79	ug/L	115.9%	12/02/08 00:22		<input type="checkbox"/>
261	K3C5R	D8K200243-10	8331289	AQUEOUS	0.01	1.0	0.01	ug/L		12/02/08 00:24		<input type="checkbox"/>
262	K3C5RS	D8K200243-10 = 5.00	8331289	AQUEOUS	5.89	1.0	5.89	ug/L		12/02/08 00:26		<input type="checkbox"/>
263	K3C5RD	D8K200243-10 = 5.00	8331289	AQUEOUS	5.90	1.0	5.90	ug/L		12/02/08 00:27		<input type="checkbox"/>
264	K3DCR	D8K200262-10	8331289	AQUEOUS	-0.01	1.0	-0.01	ug/L		12/02/08 00:29		<input type="checkbox"/>
265	CCV	= 5.00			5.68	1.0	5.68	ug/L	113.6%	12/02/08 00:31		<input type="checkbox"/>
266	CCB				-0.01	1.0	-0.01	ug/L		12/02/08 00:32		<input type="checkbox"/>
267	K3HF8	D8K220131-1	8331289	AQUEOUS	-0.01	1.0	-0.01	ug/L		12/02/08 00:34		<input type="checkbox"/>
268	K3HPW	D8K220156-1	8331289	AQUEOUS	0.01	1.0	0.01	ug/L		12/02/08 00:36		<input type="checkbox"/>
269	K3HP2	D8K220156-2	8331289	AQUEOUS	0.01	1.0	0.01	ug/L		12/02/08 00:38		<input type="checkbox"/>
270	K3ETM	D8K210170-1	8331289	AQUEOUS	0.06	1.0	0.06	ug/L		12/02/08 00:39		<input type="checkbox"/>
271	K3E61	D8K210186-11	8331289	AQUEOUS	-0.01	1.0	-0.01	ug/L		12/02/08 00:41		<input type="checkbox"/>
272	K3E7A	D8K210186-12	8331289	AQUEOUS	-0.01	1.0	-0.01	ug/L		12/02/08 00:43		<input type="checkbox"/>

Denver

RUN SUMMARY

Method: CVHG - Mercury (Cold Vapor Mercury) Instrument: B (019) Reported: 12/02/08 14:41:32

Sequence:	081201B	Date:	12/01/08 16:57	Analyst:	cgg	ICV:	_____	CAL/CCV:	_____			
#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Comment	Q
273	<del>K3JT0</del>	<del>D8K240113-1</del>	8331289	AQUEOUS	12.98	1.0	<del>12.98</del>	<del>ug/L</del>		<del>12/02/08 00:44</del>		<input type="checkbox"/>
274	K3JT1	D8K240113-2	8331289	AQUEOUS	1.26	1.0	1.26	ug/L		12/02/08 00:46		<input type="checkbox"/>
275	CCV	= 5.00			5.86	1.0	5.86	ug/L	117.2%	12/02/08 00:48	MA	<input type="checkbox"/>
276	CCB				0.01	1.0	0.01	ug/L		12/02/08 00:50		<input type="checkbox"/>
277	K3JT3	D8K240113-3	8331289	AQUEOUS	39.19	1.0	39.19	ug/L		12/02/08 00:51	Prepare	<input type="checkbox"/>
278	K3JT4	D8K240113-4	8331289	AQUEOUS	1.19	1.0	1.19	ug/L		12/02/08 00:53		<input type="checkbox"/>
279	K3JT5	D8K240113-5	8331289	AQUEOUS	0.51	1.0	0.51	ug/L		12/02/08 00:55		<input type="checkbox"/>
280	K3JT6	D8K240113-6	8331289	AQUEOUS	-0.00	1.0	-0.00	ug/L		12/02/08 00:57	00 12/2/08	<input type="checkbox"/>
281	K3JT7	D8K240113-7	8331289	AQUEOUS	39.01	1.0	39.01	ug/L		12/02/08 00:59		<input type="checkbox"/>
282	K3JT9	D8K240113-8	8331289	AQUEOUS	28.87	1.0	28.87	ug/L		12/02/08 01:01		<input type="checkbox"/>
283	K3JVA	D8K240113-9	8331289	AQUEOUS	162.70	1.0	162.70	ug/L		12/02/08 01:03		<input type="checkbox"/>
284	K3L4V	D8K250173-20	8331289	AQUEOUS	-0.02	1.0	-0.02	ug/L		12/02/08 01:04		<input type="checkbox"/>
285	CCV	= 5.00			5.45	1.0	5.45	ug/L	109.0%	12/02/08 01:06		<input type="checkbox"/>
286	CCB				0.00	1.0	0.00	ug/L		12/02/08 01:08		<input type="checkbox"/>
287	K3L5G	D8K250173-21	8331289	AQUEOUS	0.03	1.0	0.03	ug/L		12/02/08 01:10		<input type="checkbox"/>
288	CCV	= 5.00			5.49	1.0	5.49	ug/L	109.9%	12/02/08 01:11		<input type="checkbox"/>
289	CCB				0.01	1.0	0.01	ug/L		12/02/08 01:13		<input type="checkbox"/>



-----  
Replicate Data: STD3

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[1]	0.0068	0.0345	0.0070	17:01:46	Yes
2		[1]	0.0065	0.0306	0.0067	17:02:17	Yes
Mean:		[1]	0.0067				
SD:		0	0.0002				
%RSD:		0	2.54				

Standard number 3 applied. [1]

Correlation Coef.: 0.999518 Slope: 0.00672 Intercept: -0.00010

=====

Sequence No.: 5

Sample ID: STD4

Analyst:

Autosampler Location: 5

Date Collected: 12/1/2008 17:02:38

Data Type: Original

-----  
Replicate Data: STD4

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[2]	0.0140	0.0631	0.0142	17:03:31	Yes
2		[2]	0.0135	0.0598	0.0137	17:04:02	Yes
Mean:		[2]	0.0138				
SD:		0	0.0004				
%RSD:		0	2.81				

Standard number 4 applied. [2]

Correlation Coef.: 0.999764 Slope: 0.00693 Intercept: -0.00017

=====

Sequence No.: 6

Sample ID: STD5

Analyst:

Autosampler Location: 6

Date Collected: 12/1/2008 17:04:23

Data Type: Original

-----  
Replicate Data: STD5

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5]	0.0353	0.1601	0.0355	17:05:17	Yes
2		[5]	0.0353	0.1632	0.0355	17:05:48	Yes
Mean:		[5]	0.0353				
SD:		0	0.0000				
%RSD:		0	0.00				

Standard number 5 applied. [5]

Correlation Coef.: 0.999922 Slope: 0.00710 Intercept: -0.00028

=====

Sequence No.: 7

Sample ID: STD6

Analyst:

Autosampler Location: 7

Date Collected: 12/1/2008 17:06:09

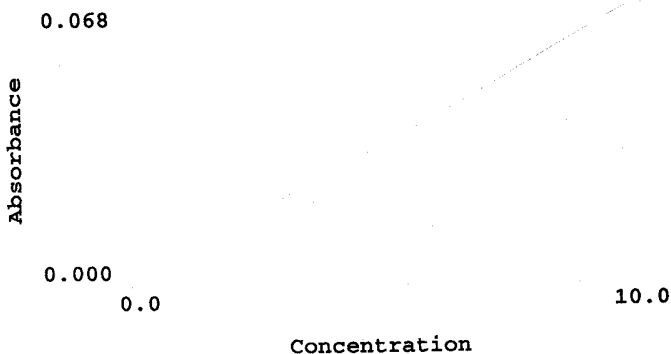
Data Type: Original

-----  
Replicate Data: STD6

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10]	0.0683	0.3141	0.0685	17:07:04	Yes
2		[10]	0.0681	0.3125	0.0682	17:07:34	Yes
Mean:		[10]	0.0682				
SD:		0	0.0002				
%RSD:		0	0.25				

Standard number 6 applied. [10]

Correlation Coef.: 0.999827 Slope: 0.00687 Intercept: -0.00002



-----  
 Calibration data for Hg 253.7 Equation: Linear, Calculated Intercept

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
Calib Blank 1	0.0000	0	0.004	0.00	74.8
STD1	0.0012	0.2	0.172	0.00	7.1
STD2	0.0032	0.5	0.468	0.00	2.3
STD3	0.0067	1.0	0.974	0.00	2.5
STD4	0.0138	2.0	2.008	0.00	2.8
STD5	0.0353	5.0	5.143	0.00	0.0
STD6	0.0682	10.0	9.932	0.00	0.3

Correlation Coef.: 0.999827    Slope: 0.00687    Intercept: -0.00002

Sequence No.: 8  
 Sample ID: CCV  
 Analyst:

Autosampler Location: 6  
 Date Collected: 12/1/2008 17:07:57  
 Data Type: Original

-----

Replicate Data: ~~CCV~~ *10 PPb Standard as 12/2/08*

Repl #	Sample Conc ug/L	Stnd Conc ug/L	Blk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	9.842	9.842	0.0676	0.3117	0.0677	17:08:51	Yes
2	10.08	10.08	0.0692	0.3163	0.0694	17:09:22	Yes
Mean:	9.962	9.962	0.0684				
SD:	0.169	0.169	0.0012				
%RSD:	1.695	1.695	1.70				

*OK*  
*12/2/08*

QC value greater than the upper limit for Hg 253.7 Recovery = 199.23%  
 QC Failed. Stop the analysis.







Analyst:

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.141	5.141	0.0353	0.1632	0.0355	17:19:08	Yes
2	5.154	5.154	0.0354	0.1626	0.0356	17:19:39	Yes
Mean:	5.147	5.147	0.0353				
SD:	0.010	0.010	0.0001				
%RSD:	0.186	0.186	0.19				

QC value within limits for Hg 253.7 Recovery = 102.95%

All analyte(s) passed QC.

Sequence No.: 5

Autosampler Location: 1

Sample ID: CCB

Date Collected: 12/1/2008 17:20:01

Analyst:

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.011	-0.011	-0.0001	-0.0006	0.0001	17:20:52	Yes
2	0.028	0.028	0.0002	0.0021	0.0003	17:21:23	Yes
Mean:	0.008	0.008	0.0000				
SD:	0.028	0.028	0.0002				
%RSD:	331.4	331.4	571.03				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 6

Autosampler Location: 9

Sample ID: K3VCEB

Date Collected: 12/1/2008 17:21:42

Analyst:

Data Type: Original

Replicate Data: K3VCEB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.019	0.019	0.0001	0.0023	0.0003	17:22:34	Yes
2	-0.004	-0.004	-0.0001	0.0006	0.0001	17:23:04	Yes
Mean:	0.008	0.008	0.0000				
SD:	0.017	0.017	0.0001				
%RSD:	218.8	218.8	409.70				

Sequence No.: 7

Autosampler Location: 10

Sample ID: K3VCEC

Date Collected: 12/1/2008 17:23:24

Analyst:

Data Type: Original

Replicate Data: K3VCEC

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.079	0.079	0.0005	0.0018	0.0007	17:24:15	Yes

User canceled analysis.

*NA 12/1/08*

Analysis Begun

Logged In Analyst: wellsd

Technique: AA FIMS-MHS

Spectrometer Model: FIMS-400, S/N B050-9560

Autosampler Model: AS-91

Sample Information File: C:\data-AA\wellsd\Sample Information\081201.sif

Batch ID:

Results Data Set: 081201B

Results Library: C:\data-AA\wellsd\Results\Results.mdb

Sequence No.: 10

Autosampler Location: 13

Sample ID: K3TLXD

Date Collected: 12/1/2008 17:25:00

Analyst:

Data Type: Original

User canceled analysis.

=====  
Analysis Begun

Logged In Analyst: wellsd

Technique: AA FIMS-MHS

Spectrometer Model: FIMS-400, S/N B050-9560

Autosampler Model: AS-91

Sample Information File: C:\data-AA\wellsd\Sample Information\081201.sif

Batch ID:

Results Data Set: 081201B

Results Library: C:\data-AA\wellsd\Results\Results.mdb

=====  
Sequence No.: 7

Autosampler Location: 10

Sample ID: K3VCEC

Date Collected: 12/1/2008 17:25:39

Analyst:

Data Type: Original

-----  
Replicate Data: K3VCEC

Repl #	Sample Conc ug/L	Std Conc ug/L	Blk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.316	5.316	0.0365	0.1668	0.0367	17:26:30	Yes
2	5.226	5.226	0.0359	0.1593	0.0360	17:27:01	Yes
Mean:	5.271	5.271	0.0362				
SD:	0.063	0.063	0.0004				
%RSD:	1.202	1.202	1.20				

=====  
Sequence No.: 8

Autosampler Location: 11

Sample ID: K3TLX

Date Collected: 12/1/2008 17:27:20

Analyst:

Data Type: Original

-----  
Replicate Data: K3TLX

Repl #	Sample Conc ug/L	Std Conc ug/L	Blk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.018	-0.018	-0.0001	-0.0031	0.0000	17:28:12	Yes
2	0.062	0.062	0.0004	0.0045	0.0006	17:28:42	Yes
Mean:	0.022	0.022	0.0001				
SD:	0.056	0.056	0.0004				
%RSD:	254.2	254.2	302.95				

=====  
Sequence No.: 9

Autosampler Location: 12

Sample ID: K3TLXS

Date Collected: 12/1/2008 17:29:03

Analyst:

Data Type: Original

-----  
Replicate Data: K3TLXS

Repl #	Sample Conc ug/L	Std Conc ug/L	Blk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.438	5.438	0.0373	0.1671	0.0375	17:29:55	Yes
2	5.384	5.384	0.0370	0.1693	0.0371	17:30:25	Yes
Mean:	5.411	5.411	0.0371				
SD:	0.038	0.038	0.0003				
%RSD:	0.710	0.710	0.71				

=====  
Sequence No.: 10

Autosampler Location: 13

Sample ID: K3TLXD

Date Collected: 12/1/2008 17:30:45

Analyst:

Data Type: Original

-----  
Replicate Data: K3TLXD

Repl #	Sample Conc ug/L	Std Conc ug/L	Blk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.372	5.372	0.0369	0.1698	0.0370	17:31:37	Yes
2	5.439	5.439	0.0373	0.1700	0.0375	17:32:08	Yes