

ANALYTICAL REPORT

Job Number: 240-97687-1

Job Description: Ravenna, OH

For:
Cardno GS, Inc
2496 Old Ivy Road
Suite 300
Charlottesville, VA 22903

Attention: Mr. Peter Chapman

Approved for release. Patrick J McEntee Manager of Project Management 6/28/2018 7:53 PM

Patrick J McEntee, Manager of Project Management 4955 Yarrow Street, Arvada, CO, 80002 (303)736-0107 patrick.mcentee@testamericainc.com 06/28/2018

Patril J. M. Enter

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.

Table of Contents

Co	over Title Page	1
Da	ata Summaries	4
	Definitions	4
	Case Narrative	5
	Detection Summary	6
	Client Sample Results	7
	Default Detection Limits	8
	QC Sample Results	9
	QC Association	10
	Chronicle	11
	Certification Summary	12
	Method Summary	13
	Sample Summary	14
	Reagent Traceability	15
	COAs	16
Inc	organic Sample Data	20
	General Chemistry Data	20
	Gen Chem Cover Page	21
	Gen Chem Sample Data	22
	Gen Chem QC Data	26
	Gen Chem ICV/CCV	26
	Gen Chem Blanks	28
	Gen Chem LCS/LCSD	29
	Gen Chem MDL	30
	Gen Chem Analysis Run Log	32
	Gen Chem Prep Data	34

Table of Contents

Gen Chem Raw Data	36
Shipping and Receiving Documents	37
Client Chain of Custody	38
Sample Receipt Checklist	40

Definitions/Glossary

Client: Cardno GS, Inc TestAmerica Job ID: 240-97687-1

Project/Site: Ravenna, OH

Glossary

TEF

TEQ

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

Abbreviation These commonly used abbreviations may or may not be present in this report. ¤ Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid **CNF** Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac Dilution Factor DL Detection Limit (DoD/DOE) DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample DLC Decision Level Concentration (Radiochemistry) **EDL** Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE) Minimum Detectable Activity (Radiochemistry) MDA Minimum Detectable Concentration (Radiochemistry) MDC MDL Method Detection Limit MLMinimum Level (Dioxin) NC Not Calculated ND Not Detected at the reporting limit (or MDL or EDL if shown) PQL Practical Quantitation Limit QC **Quality Control** Relative Error Ratio (Radiochemistry) **RER** Reporting Limit or Requested Limit (Radiochemistry) RL Relative Percent Difference, a measure of the relative difference between two points **RPD**

CASE NARRATIVE

Client: Cardno GS, Inc

Project: Ravenna, OH

Report Number: 240-97687-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 6/27/2018 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

Under client approval, Hexavalent chromium analysis was performed by TestAmerica Canton. TestAmerica Canton is not hold DoD accreditation; therefore, method EPA SW-846 Method 7196A is reported with standard data qualifiers applied.

HEXAVALENT CHROMIUM

Samples LL3mw-244-062618-GW (240-97687-1), FWGmw-019-062618-GW (240-97687-2), FWGmw-022-062618-GW (240-97687-3) and FWGmw-023-062618-GW (240-97687-4) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were analyzed on 06/27/2018.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Cardno GS, Inc
Project/Site: Ravenna, OH

TestAmerica Job ID: 240-97687-1

Client Sample ID: LL3mw-244-062618-GW

Lab Sample ID: 240-97687-1

No Detections.

Client Sample ID: FWGmw-019-062618-GW

Lab Sample ID: 240-97687-2

No Detections.

Client Sample ID: FWGmw-022-062618-GW

Lab Sample ID: 240-97687-3

No Detections.

Client Sample ID: FWGmw-023-062618-GW Lab Sample ID: 240-97687-4

No Detections.

Client Sample Results

Client: Cardno GS, Inc Project/Site: Ravenna, OH

TestAmerica Job ID: 240-97687-1

Client Sample ID: LL3mw-244-062618-GW Lab Sample ID: 240-97687-1

Date Collected: 06/26/18 13:31 **Matrix: Water**

Date Received: 06/27/18 08:00

General Chemistry RL Analyte **MDL** Unit Dil Fac Result Qualifier D Prepared Analyzed Hexavalent chromium 20 06/27/18 09:15 ND 3.0 ug/L

Client Sample ID: FWGmw-019-062618-GW Lab Sample ID: 240-97687-2

Date Collected: 06/26/18 13:33 Date Received: 06/27/18 08:00

General Chemistry RL **MDL** Unit **Analyte** Result Qualifier D Prepared Analyzed Dil Fac ND 20 06/27/18 09:14 Hexavalent chromium 3.0 ua/L

Client Sample ID: FWGmw-022-062618-GW Lab Sample ID: 240-97687-3

Date Collected: 06/26/18 14:48 Date Received: 06/27/18 08:00

General Chemistry Analyte Result Qualifier **MDL** Unit RL D **Prepared** Analyzed Dil Fac Hexavalent chromium ND 20 06/27/18 09:13 3.0 ug/L

Lab Sample ID: 240-97687-4 Client Sample ID: FWGmw-023-062618-GW

Date Collected: 06/26/18 16:19 Date Received: 06/27/18 08:00

General Chemistry Analyte Result Qualifier RL **MDL** Unit Prepared D Analyzed Dil Fac 20 Hexavalent chromium $\overline{\mathsf{ND}}$ 3.0 ug/L 06/27/18 09:16

Matrix: Water

Matrix: Water

Matrix: Water

Default Detection Limits

Client: Cardno GS, Inc Project/Site: Ravenna, OH TestAmerica Job ID: 240-97687-1

General Chemistry

Analyte	RL	MDL	Units	Method
Hexavalent chromium	20	3.0	ug/L	7196A

QC Sample Results

Client: Cardno GS, Inc TestAmerica Job ID: 240-97687-1

Project/Site: Ravenna, OH

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 240-333695/3

Matrix: Water

Analysis Batch: 333695

MB MB

AnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacHexavalent chromiumND203.0ug/L06/27/18 09:091

Lab Sample ID: LCS 240-333695/4

Matrix: Water

Analysis Batch: 333695

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

 Analyte
 Added
 Result Plexavalent chromium
 Qualifier 250
 Unit Ug/L
 D WRec Value
 %Rec.

 4 Mexavalent chromium
 250
 270
 ug/L
 108
 80 - 123

QC Association Summary

Client: Cardno GS, Inc
Project/Site: Ravenna, OH

TestAmerica Job ID: 240-97687-1

General Chemistry

Analysis Batch: 333695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-97687-1	LL3mw-244-062618-GW	Total/NA	Water	7196A	
240-97687-2	FWGmw-019-062618-GW	Total/NA	Water	7196A	
240-97687-3	FWGmw-022-062618-GW	Total/NA	Water	7196A	
240-97687-4	FWGmw-023-062618-GW	Total/NA	Water	7196A	
MB 240-333695/3	Method Blank	Total/NA	Water	7196A	
LCS 240-333695/4	Lab Control Sample	Total/NA	Water	7196A	

Lab Chronicle

Client: Cardno GS, Inc Project/Site: Ravenna, OH TestAmerica Job ID: 240-97687-1

Client Sample ID: LL3mw-244-062618-GW

Lab Sample ID: 240-97687-1 Date Collected: 06/26/18 13:31 **Matrix: Water**

Date Received: 06/27/18 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	7106Δ		1	333605	06/27/18 00:15	1/4//4/	TAL CAN

Client Sample ID: FWGmw-019-062618-GW

Date Collected: 06/26/18 13:33

Matrix: Water

Date Received: 06/27/18 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1	333695	06/27/18 09:14	JWW	TAL CAN

Client Sample ID: FWGmw-022-062618-GW

Lab Sample ID: 240-97687-3

Lab Sample ID: 240-97687-2

Date Collected: 06/26/18 14:48 **Matrix: Water**

Date Received: 06/27/18 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1	333695	06/27/18 09:13	JWW	TAL CAN

Client Sample ID: FWGmw-023-062618-GW

Lab Sample ID: 240-97687-4 Date Collected: 06/26/18 16:19 **Matrix: Water**

Date Received: 06/27/18 08:00

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1	333695	06/27/18 09:16	JWW	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: Cardno GS, Inc TestAmerica Job ID: 240-97687-1

Project/Site: Ravenna, OH

Laboratory: TestAmerica Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-19
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-19
Illinois	NELAP	5	200004	07-31-18 *
Kansas	NELAP	7	E-10336	01-31-19
Kentucky (UST)	State Program	4	58	02-23-19
Kentucky (WW)	State Program	4	98016	12-31-18
Minnesota	NELAP	5	039-999-348	12-31-18
Minnesota (Petrofund)	State Program	1	3506	07-31-18 *
Nevada	State Program	9	OH-000482008A	07-31-18 *
New Jersey	NELAP	2	OH001	06-30-19
New York	NELAP	2	10975	03-31-19
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-19
Pennsylvania	NELAP	3	68-00340	08-31-18 *
Texas	NELAP	6	T104704517-17-9	08-31-18 *
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-18 *
Washington	State Program	10	C971	01-12-19
West Virginia DEP	State Program	3	210	12-31-18

Laboratory: TestAmerica Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	DoD ELAP		2907.01	10-31-19

^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Cardno GS, Inc Project/Site: Ravenna, OH TestAmerica Job ID: 240-97687-1

Method	Method Description	Protocol	Laboratory
7196A	Chromium, Hexavalent	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Cardno GS, Inc Project/Site: Ravenna, OH TestAmerica Job ID: 240-97687-1

Lab Sample ID	Client Sample ID	Matrix	Collected Received
240-97687-1	LL3mw-244-062618-GW	Water	06/26/18 13:31 06/27/18 08:00
240-97687-2	FWGmw-019-062618-GW	Water	06/26/18 13:33 06/27/18 08:00
240-97687-3	FWGmw-022-062618-GW	Water	06/26/18 14:48 06/27/18 08:00
240-97687-4	FWGmw-023-062618-GW	Water	06/26/18 16:19 06/27/18 08:00

REAGENT TRACEABILITY SUMMARY

Lab	Name:	TestAmerica	Canton	Job No.: 2	40-97687-1
SDG	No •				

				Reagent	Parent Reagent			
Reagent ID	Exp Date	Prep Date	Dilutant Used	Final Volume	Reagent ID	Volume Added	Analyte	Concentration
WCCHROME50PM2 00022	09/09/18	03/09/18	DIWATER, Lot 052014	1000 mL	WCKDICHROME62 00003	0.1414 g	Hexavalent chromium	49.9764 mg/L
.WCKDICHROME62_00003	06/06/19		Fisher, Lot 140919		(Purchased Reag	ent)	Hexavalent chromium	0.35344 g/g
WCCHROME50PPM_00024	09/09/18	03/09/18	DIWATER, Lot 052014	1000 mL	WCKDICHROME62_00004	0.1414 g	Hexavalent chromium	49.9764 mg/L
.WCKDICHROME62 00004	09/07/21		Fisher, Lot 126893		(Purchased Reag	ent)	Hexavalent chromium	0.35344 g/g

Reagent

WCKDICHROME62_00003



1 Reagent Lane Fair Lawn, NJ 07410 201.796.7100 tel 201.796.1329 fax

Certificate of Analysis

Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2008 standard by SAI Global Certificate Number CERT - 0064970

This is to certify that units of the above mentioned lot number were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Certain products (USP/FCC/NF/EP/BP/JP grades) are sold for use in food, drug, or medical device manufacturing. Fisher does not claim regulatory coverage under 21 CFR nor maintain DMF's with the FDA. The following are the actual analytical results obtained:

Catalog Number	er P18	8		Quality Test / Release Date 2/25/2014				
Lot Number	ot Number 140919							
Description								
Country of Orig	gin	United States		* Suggested Retest Date	Feb-2019			
Chemical Origi	n	Inorganic-	non animal					
			No animal products are us processing, including lubri migrate to the finished pro	sed as starting raw material ingredie icants, processing aids, or any other oduct.	nts, or used in material that might			

Result name	Units	Specifications	Test Value
APPEARANCE		REPORT	FINE ORANGE-RED CRYSTALS
ASSAY	%	>= 99	99.9
CALCIUM	%	<= 0.003	0.0010
CHLORIDE	%	<= 0.001	<0.0010
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
INSOLUBLE MATTER	%	<= 0.005	0.002
IRON (Fe)	%	<= 0.001	0.0010
LOSS ON DRYING @ 105 C	%	<= 0.05	0.02
SODIUM (Na)	%	<= 0.02	0.001
SULFATE (SO4)	%	<= 0.005	0.002



Edgan E. Hara

Lab Manager Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as a extension of this catalog number listed above. If there are any questions with this certificate, please call Chemical Services at (800) 227-6701. *Based on suggested storage condition.

Reagent

WCKDICHROME 62_00004



1 Reagent Lane Fair Lawn, NJ 07410 201.796.7100 tel 201.796.1329 fax

Certificate of Analysis

Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2008 standard by DNV Certificate number CERT-08052-2006-AQ-HOU-ANAB

This is to certify that units of the above mentioned lot number were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Certain products (USP/FCC/NF/EP/BP/JP grades) are sold for use in food, drug, or medical device manufacturing. Fisher does not claim regulatory coverage under 21 CFR nor maintain DMF's with the FDA. The following are the actual analytical results obtained:

Catalog Number	P18	8		Mfg. Date	11/16/2012				
Lot Number 126893		393							
Description F	Description POTASSIUM DICHROMATE, A.C.S.								
Country of Origin United			ites	Recommend	ed Retest Date	Nov-2017			
Chemical Origin	1	Inorganic-	-non animal						
BSE/TSE Comment			No animal products are us processing, including lubri migrate to the finished pro	icants, processi	aw material ingredie ng aids, or any other	ents, or used in r material that might			

Result name	Units	Specifications	Test Value
APPEARANCE		REPORT	Fine, orange-red powder
ASSAY	%	>= 99	99.8
CALCIUM	%	<= 0.003	<0.0010
CHLORIDE	%	<= 0.001	<0.0010
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
INSOLUBLE MATTER	%	<= 0.005	0.004
IRON (Fe)	%	<= 0.001	0.0010
LOSS ON DRYING @ 105 C	%	<= 0.05	0.03
SODIUM (Na)	%	<= 0.02	0.005
SULFATE (SO4)	%	<= 0.005	0.003



Lab Manager Fair Lawn

Edgan E. Have

Note: The data listed is valid for all package sizes of this lot of this product, expressed as a extension of this catalog number listed above. If there are any questions with this certificate, please call Chemical Services at (800) 227-6701.

06/28/2018

GENERAL CHEMISTRY

COVER PAGE GENERAL CHEMISTRY

Lab Name:	TestAmerica Canton	Job Number: <u>240-97687-1</u>
SDG No.:		
Project:	Ravenna, OH	
	Client Sample ID	Lab Sample ID
	LL3mw-244-062618-GW	240-97687-1
	FWGmw-019-062618-GW	240-97687-2
	FWGmw-022-062618-GW	240-97687-3
	FWGmw-023-062618-GW	240-97687-4

Comments:

Client Sample	Lient Sample ID: LL3mw-244-062618-GW				Lab Sample ID: 240-97687-1						
Lab Name: Te	estAmerica Canton			Job No.: 240-97687-1							
SDG ID.:											
Matrix: Wate	r			Date Sampled: 06/26/2018 13:31							
Reporting Bas	is: WET			Date Received: 06/27/2018 08:00							
CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method		
	I mary co	TODUIC		11011				211			
18540-29-9	Hexavalent chromium	ND	2.0	3.0	11a/T			1	7196A		

Client Sample	ID: FWGmw-019-062618-0		Lab Sample ID: 240-97687-2								
Lab Name: Te	stAmerica Canton			Job No.: 240-97687-1							
SDG ID.:											
Matrix: Water	r		Date Sampled: 06/26/2018 13:33								
Reporting Bas	is: WET			Date Received: 06/27/2018 08:00							
CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method		
18540-29-9	Hexavalent chromium	ND	20	3.0	ug/L			1	7196A		

Client Sample	lient Sample ID: FWGmw-022-062618-GW				Lab Sample ID: 240-97687-3						
Lab Name: Te	stAmerica Canton			Job No.: 240-97687-1							
SDG ID.:											
Matrix: Wate	r			Date Sampled: 06/26/2018 14:48							
Reporting Bas	is: WET			Date Received: 06/27/2018 08:00							
CAS No.	Analyte	Result	RL	MDL	Units	С	0	DIL	Method		
	-						*				
18540-29-9	Hexavalent chromium	ND	20	3.0	l ua/L			1	7196A		

Client Sample	ID: FWGmw-023-062618-0		Lab Sample ID: 240-97687-4									
Lab Name: Tes	stAmerica Canton			Job No.: 240-97687-1								
SDG ID.:												
Matrix: Water	Matrix: Water					Date Sampled: 06/26/2018 16:19						
Reporting Basi	Reporting Basis: WET					Date Received: 06/27/2018 08:00						
CAS No.	Analyte	Result	RL	MDL	Units	С	Q	DIL	Method			

20

3.0 ug/L

1 7196A

ND

18540-29-9

Hexavalent chromium

2-IN CALIBRATION QUALITY CONTROL GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-97687-1

SDG No.:

Analyst: JWW Batch Start Date: 06/12/2018

Reporting Units: mg/L Analytical Batch No.: 331317

Sample QC Number Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
7 ICV	16:38	Hexavalent chromium	0.266	0.250	106	90-110		WCCHROME50PM2_0002 2
8 ICB	16:39	Hexavalent chromium	0.010				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN CALIBRATION QUALITY CONTROL GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-97687-1

SDG No.:

Analyst: JWW Batch Start Date: 06/27/2018

Reporting Units: mg/L Analytical Batch No.: 333695

Sample QC Number Type	Time	Analyte	Result		(%) Recovery	Limits	Qual	Reagent
1 CCV	09:08	Hexavalent chromium	0.260	0.250	104	90-110		WCCHROME50PPM_0002
2 CCB	09:08	Hexavalent chromium	ND					
13 CCV	09:18	Hexavalent chromium	0.259	0.250	104	90-110		WCCHROME50PPM_0002 4
14 CCB	09:19	Hexavalent chromium	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

3-IN METHOD BLANK GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-97687-1

SDG No.:

Method	Lab Sample ID	Analyte	Result Qual	Units	RL	Dil
Batch ID:	333695 Date:	06/27/2018 09:09				
7196A	MB 240-333695/3	Hexavalent chromium	ND	ug/L	20	1

7A-IN LAB CONTROL SAMPLE GENERAL CHEMISTRY

Lab Name: TestAmerica Canton	Job No.: 240-97687-1
SDG No.:	
Matrix: Water	

 Method
 Lab Sample ID
 Analyte
 Result C
 Unit
 Spike Amount
 Pct. Rec.
 Limits
 RPD Limit
 Q

 Batch ID: 333695
 Date: 06/27/2018 09:10
 LCS Source: WCCHROME50PM2_00022
 VCHROME50PM2_00022
 VCHROM

Calculations are performed before rounding to avoid round-off errors in calculated results.

9-IN DETECTION LIMITS GENERAL CHEMISTRY

Lab Name: TestAmerica Canton

SDG Number: 240-97687-1

Matrix: Water

Method: 7196A

Job Number: 240-97687-1

Instrument ID: OSCAR

MDL Date: 04/25/2017 11:21

Analyte	Wavelength/	RL	MDL
	Mass	(mg/L)	(mg/L)
Hexavalent chromium		0.02	0.003

9-IN CALIBRATION BLANK DETECTION LIMITS GENERAL CHEMISTRY

Lab Name: TestAmerica Canton	Job Number: 240-97687-1
SDG Number:	
Matrix: Water	Instrument ID: OSCAR
Method: 7196A	XMDL Date: 04/25/2017 11:21

Analyte	Wavelength/	XRL	XMDL
	Mass	(mg/L)	(mg/L)
Hexavalent chromium		0.02	0.003

13-IN ANALYSIS RUN LOG GENERAL CHEMISTRY

Lab Name	e: TestAmerica	Canton	Job No.:	240-97687-1	_
Lab Name	e: TestAmerica	Canton	Job No.:	240-97687-	1

SDG No.:

Instrument ID: OSCAR Analysis Method: 7196A

Start Date: 06/12/2018 16:33 End Date: 06/12/2018 16:45

		Т		Analytes							
Lab Sample Id	D/F	У р е	Time	C r 6							
IC 240-331317/1	1		16:33	X							
IC 240-331317/2	1		16:33	X							
IC 240-331317/3	1		16:34	X							
IC 240-331317/4	1		16:35	X							
IC 240-331317/5	1		16:36	X							
IC 240-331317/6	1		16:37	X							
ICV 240-331317/7	1		16:38	X							
ICB 240-331317/8	1		16:39	X							
ZZZZZZ			16:39								
ZZZZZZ			16:40								
ZZZZZZ			16:41								
ZZZZZZ			16:42								
ZZZZZZ			16:43								
CCV 240-331317/14			16:44								
CCB 240-331317/15			16:45								

Prep Types:

=

13-IN ANALYSIS RUN LOG GENERAL CHEMISTRY

шар	Name:	TestAmerica	Calicon	Job No.:	240-97687-1

SDG No.:

Instrument ID: OSCAR Analysis Method: 7196A

Start Date: 06/27/2018 09:08 End Date: 06/27/2018 18:45

Lab Sample Id D/F Pe Time Cr/6 CCV 240-333695/1 1 09:08 X CCB 240-333695/2 1 09:08 X MB 240-333695/3 1 T 09:09 X			Т									7	\na	aly	/te	es								
CCB 240-333695/2	Lab Sample Id	D/F	У р е	Time	r																			
MB 240-333695/3	CCV 240-333695/1	1		09:08	Х		Ī	Ī	Ī												Ī	Ī		
LCS 240-333695/4	CCB 240-333695/2	1		09:08	Х																	\Box	\Box	
Description	MB 240-333695/3	1	Т	09:09	Х																	\Box	\Box	
Description	LCS 240-333695/4	1	Т	09:10	Х																	\exists	\exists	
ZZZZZZ	ZZZZZZ			09:11																		\exists	\exists	
240-97687-3 1 T 09:13 X 240-97687-2 1 T 09:14 X 240-97687-1 1 T 09:15 X 240-97687-4 1 T 09:16 X ZZZZZZ 09:17 CCV 240-333695/13 1 09:18 X CCB 240-333695/14 1 09:19 X ZZZZZZ 12:30 CCV 240-333695/16 12:31 CCB 240-333695/17 12:32 ZZZZZZ 13:01 CCV 240-333695/19 13:02 CCB 240-333695/20 13:03 CCV 240-333695/21 16:45 CCB 240-333695/22 16:47 ZZZZZZ 16:51 ZZZZZZ 16:51 ZZZZZZ 16:55 ZZZZZZ 16:55 ZZZZZZ 16:59 CCV 240-333695/29 17:00 CCV 240-333695/30 17:01 ZZZZZZ 18:42 ZZZZZZ 18:43 CCV 240-333695/33 18:44	ZZZZZZ			09:11																		\exists	\exists	
240-97687-2 1 T 09:14 X 240-97687-1 1 T 09:15 X 240-97687-4 1 T 09:16 X 272222 09:17 CCV 240-333695/13 1 09:18 X CCB 240-333695/14 1 09:19 X ZZZZZZ 12:30 CCV 240-333695/16 12:31 CCB 240-333695/17 12:32 ZZZZZZ 13:01 CCV 240-333695/19 13:02 CCB 240-333695/20 13:03 CCV 240-333695/21 16:45 CCB 240-333695/22 16:50 ZZZZZZ 16:51 ZZZZZZ 16:51 ZZZZZZ 16:52 ZZZZZZ 16:57 ZZZZZZ 16:59 CCV 240-333695/29 17:00 CCV 240-333695/30 17:01 ZZZZZZ 18:42 CCV 240-333695/33 18:44	ZZZZZZ			09:12																		\exists	\exists	
240-97687-1 1 T 09:15 X 240-97687-4 1 T 09:16 X ZZZZZZ 09:17 09:18 X CCB 240-333695/14 1 09:19 X ZZZZZZ 12:30 0 CCV 240-333695/16 12:31 0 CCB 240-333695/17 12:32 0 ZZZZZZ 13:01 0 CCV 240-333695/19 13:02 0 CCB 240-333695/20 13:03 0 CCB 240-333695/21 16:45 0 CCB 240-333695/22 16:50 0 ZZZZZZ 16:50 0 ZZZZZZ 16:51 0 ZZZZZZ 16:55 0 ZZZZZZ 16:57 0 ZZZZZZ 16:59 0 CCV 240-333695/29 17:00 0 CCV 240-333695/30 17:01 0 ZZZZZZ 18:43 0 CCV 240-333695/33 18:44 0	240-97687-3	1	Т	09:13	Х																	\exists	\exists	
240-97687-4 1 T 09:16 X ZZZZZZ 09:17 CCV 240-333695/13 1 09:18 X CCB 240-333695/14 1 09:19 X ZZZZZZ 12:30 1 CCV 240-333695/16 12:31 1 CCB 240-333695/17 12:32 1 ZZZZZZ 13:01 1 CCV 240-333695/19 13:02 1 CCV 240-333695/20 13:03 1 CCV 240-333695/21 16:45 1 CCB 240-333695/22 16:47 1 ZZZZZZ 16:50 1 ZZZZZZ 16:51 1 ZZZZZZ 16:55 1 ZZZZZZ 16:57 1 ZZZZZZ 16:59 1 CCV 240-333695/29 17:00 1 CCW 240-333695/30 17:01 1 ZZZZZZ 18:43 1 CCV 240-333695/33 18:44 1	240-97687-2	1	Т	09:14	Х	 \Box							\top	\top	\top	\top			\exists	\dashv	\dashv	\forall	\exists	
Description	240-97687-1	1	Т	09:15	Х																	\top	\neg	
CCV 240-333695/13 1 09:18 X CCB 240-333695/14 1 09:19 X ZZZZZZ 12:30 CCV 240-333695/16 12:31 CCB 240-333695/17 12:32 ZZZZZZ 13:01 CCV 240-333695/19 13:02 CCB 240-333695/20 13:03 CCV 240-333695/21 16:45 CCB 240-333695/22 16:47 ZZZZZZ 16:50 ZZZZZZ 16:51 ZZZZZZ 16:52 ZZZZZZ 16:57 ZZZZZZ 16:59 CCV 240-333695/29 17:00 CCB 240-333695/30 17:01 ZZZZZZ 18:42 ZCV 240-333695/33 18:44	240-97687-4	1	Т	09:16	Х																	\top	\neg	
CCB 240-333695/14 1 09:19 X ZZZZZZ 12:30 CCV 240-333695/16 12:31 CCB 240-333695/17 12:32 ZZZZZZ 13:01 CCV 240-333695/19 13:02 CCB 240-333695/20 13:03 CCV 240-333695/21 16:45 CCB 240-333695/22 16:47 ZZZZZZ 16:50 ZZZZZZ 16:51 ZZZZZZ 16:55 ZZZZZZ 16:57 ZZZZZZ 16:59 CCV 240-333695/29 17:00 CCB 240-333695/30 17:01 ZZZZZZ 18:42 ZZZZZZ 18:43 CCV 240-333695/33 18:44	ZZZZZZ			09:17		 П																\exists	\neg	
Table Tabl	CCV 240-333695/13	1		09:18	Х																	\top	\neg	
CCV 240-333695/16 12:31 CCB 240-333695/17 12:32 ZZZZZZ 13:01 CCV 240-333695/19 13:02 CCB 240-333695/20 13:03 CCV 240-333695/21 16:45 CCB 240-333695/22 16:47 ZZZZZZ 16:50 ZZZZZZ 16:51 ZZZZZZ 16:52 ZZZZZZ 16:55 ZZZZZZ 16:57 ZZZZZZ 16:59 CCV 240-333695/30 17:01 ZZZZZZ 18:43 CCV 240-333695/33 18:44	CCB 240-333695/14	1		09:19	Х	 П																\exists	\neg	
CCB 240-333695/17 12:32 ZZZZZZ 13:01 CCV 240-333695/19 13:02 CCB 240-333695/20 13:03 CCV 240-333695/21 16:45 CCB 240-333695/22 16:47 ZZZZZZ 16:50 ZZZZZZ 16:51 ZZZZZZ 16:52 ZZZZZZ 16:55 ZZZZZZ 16:57 ZZZZZZ 16:59 CCV 240-333695/29 17:00 CCB 240-333695/30 17:01 ZZZZZZ 18:42 ZZZZZZ 18:43 CCV 240-333695/33 18:44	ZZZZZZ			12:30																		\top	\neg	
ZZZZZZ 13:01 CCV 240-333695/19 13:02 CCB 240-333695/20 13:03 CCV 240-333695/21 16:45 CCB 240-333695/22 16:47 ZZZZZZ 16:50 ZZZZZZ 16:51 ZZZZZZ 16:52 ZZZZZZ 16:55 ZZZZZZ 16:59 CCV 240-333695/29 17:00 CCB 240-333695/30 17:01 ZZZZZZ 18:42 ZZZZZZ 18:43 CCV 240-333695/33 18:44	CCV 240-333695/16			12:31		 П																\exists	\neg	
CCV 240-333695/19 13:02 0	CCB 240-333695/17			12:32		 П																\exists	\neg	
CCB 240-333695/20 13:03 CCV 240-333695/21 16:45 CCB 240-333695/22 16:47 ZZZZZZ 16:50 ZZZZZZ 16:51 ZZZZZZ 16:52 ZZZZZZ 16:55 ZZZZZZ 16:57 ZZZZZZ 16:59 CCV 240-333695/29 17:00 CCB 240-333695/30 17:01 ZZZZZZ 18:42 ZZZZZZ 18:43 CCV 240-333695/33 18:44	ZZZZZZ			13:01		 П																\exists	\neg	
CCV 240-333695/21 16:45 CCB 240-333695/22 16:47 ZZZZZZ 16:50 ZZZZZZ 16:51 ZZZZZZ 16:52 ZZZZZZ 16:55 ZZZZZZ 16:57 ZZZZZZ 16:59 CCV 240-333695/29 17:00 CCB 240-333695/30 17:01 ZZZZZZ 18:42 ZZZZZZ 18:43 CCV 240-333695/33 18:44	CCV 240-333695/19			13:02																		\top	\neg	
CCV 240-333695/21 16:45 CCB 240-333695/22 16:47 ZZZZZZ 16:50 ZZZZZZ 16:51 ZZZZZZ 16:52 ZZZZZZ 16:55 ZZZZZZ 16:57 ZZZZZZ 16:59 CCV 240-333695/29 17:00 CCB 240-333695/30 17:01 ZZZZZZ 18:42 ZZZZZZ 18:43 CCV 240-333695/33 18:44	CCB 240-333695/20			13:03		 \Box																\exists		
ZZZZZZZ 16:50 ZZZZZZ 16:51 ZZZZZZ 16:52 ZZZZZZ 16:55 ZZZZZZ 16:57 ZZZZZZ 16:59 CCV 240-333695/29 17:00 CCB 240-333695/30 17:01 ZZZZZZ 18:42 ZZZZZZ 18:43 CCV 240-333695/33 18:44	CCV 240-333695/21			16:45																		\top	\neg	
ZZZZZZZ 16:51 ZZZZZZ 16:52 ZZZZZZ 16:55 ZZZZZZ 16:57 ZZZZZZ 16:59 CCV 240-333695/29 17:00 CCB 240-333695/30 17:01 ZZZZZZ 18:42 ZZZZZZ 18:43 CCV 240-333695/33 18:44	CCB 240-333695/22			16:47																		\top	\neg	
ZZZZZZ 16:52 ZZZZZZ 16:55 ZZZZZZ 16:57 ZZZZZZ 16:59 CCV 240-333695/29 17:00 CCB 240-333695/30 17:01 ZZZZZZ 18:42 ZZZZZZ 18:43 CCV 240-333695/33 18:44	ZZZZZZ			16:50																		\top	\neg	
ZZZZZZZ 16:55 ZZZZZZZ 16:57 ZZZZZZZ 16:59 CCV 240-333695/29 17:00 CCB 240-333695/30 17:01 ZZZZZZ 18:42 ZZZZZZ 18:43 CCV 240-333695/33 18:44	ZZZZZZ			16:51		 П																\exists	\exists	
ZZZZZZ 16:57 ZZZZZZ 16:59 CCV 240-333695/29 17:00 CCB 240-333695/30 17:01 ZZZZZZ 18:42 ZZZZZZ 18:43 CCV 240-333695/33 18:44	ZZZZZZ			16:52		 П																\exists	\neg	
ZZZZZZ 16:59 CCV 240-333695/29 17:00 CCB 240-333695/30 17:01 ZZZZZZ 18:42 ZZZZZZ 18:43 CCV 240-333695/33 18:44	ZZZZZZ			16:55		 \forall	\top					\dashv		\top	1	\dashv			\dashv	\dashv		\dashv	\exists	
CCV 240-333695/29	ZZZZZZ			16:57		 \forall	\top					\dashv		\top	1	\dashv			\dashv	\dashv		\dashv	\exists	
CCB 240-333695/30 17:01 ZZZZZZ 18:42 ZZZZZZZ 18:43 CCV 240-333695/33 18:44	ZZZZZZ			16:59		 \forall	\top					\dashv		\top	1	\dashv			\dashv	\dashv		\dashv	\exists	
CCB 240-333695/30 17:01 ZZZZZZ 18:42 ZZZZZZZ 18:43 CCV 240-333695/33 18:44	CCV 240-333695/29			17:00		 \forall	\top					\dashv		\dashv	1	\dashv			\dashv	\dashv		\dashv		
ZZZZZZ						 \Box	\top					\dashv	\dashv	\top	\forall	1	\dashv		\dashv	\dashv	\dashv	+	\dashv	
ZZZZZZ				l		 \Box	\top					\dashv	\dashv	\top	\forall	1	\dashv		\dashv	\dashv	\dashv	+	\dashv	
CCV 240-333695/33 18:44						 +				1		\dashv	\dashv	\dashv	\forall	+	\dashv				1	+	\dashv	
				l		 \forall			\top			\dashv	\dashv	+	\dashv	+			\dashv	\dashv	\dashv	+	\dashv	
				l		 \Box				1		\dashv	\dashv	\dashv	\forall	\dashv	\dashv					+	\dashv	

Prep	Types:	•

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-97687-1

SDG No.:

Batch Number: 331317 Batch Start Date: 06/12/18 16:33 Batch Analyst: Weimer, Joshua W

Batch Method: 7196A Batch End Date: 06/12/18 16:46

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	UnCorResp	WCCHROME50PM2	WCCHROME50PPM	
							00022	00024	
IC 240-331317/1		7196A		50.0 mL	50.0 mL	0 Absorbance			
IC 240-331317/2		7196A		50.0 mL	50.0 mL	0.004		0.005 mL	
						Absorbance			
IC 240-331317/3		7196A		50.0 mL	50.0 mL	0.008		0.01 mL	
						Absorbance			
IC 240-331317/4		7196A		50.0 mL	50.0 mL	0.074		0.1 mL	
						Absorbance			
IC 240-331317/5		7196A		50.0 mL	50.0 mL	0.190		0.25 mL	
						Absorbance			
IC 240-331317/6		7196A		50.0 mL	50.0 mL	0.362		0.5 mL	
						Absorbance			
ICV		7196A		50.0 mL	50.0 mL	0.195	0.25 mL		
240-331317/7						Absorbance			
ICB		7196A		50.0 mL	50.0 mL	0 Absorbance			
240-331317/8									

Batch	Notes
Acid Used for pH Adjustment ID	3294428
Spectrophotometer Cell Path Length	1 cm
Color Reagent ID	3628696

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

7196A Page 1 of 1

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-97687-1

SDG No.:

Batch Number: 333695 Batch Start Date: 06/27/18 09:08 Batch Analyst: Weimer, Joshua W

Batch Method: 7196A Batch End Date: 06/27/18 18:58

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ColorBlk	UnCorResp	WCCHROME50PM2 00022	WCCHROME50PPM 00024
CCV 240-333695/1		7196A		50 mL	50 mL		0.191 Absorbance		0.25 mL
CCB 240-333695/2		7196A		50 mL	50 mL		0 Absorbance		
MB 240-333695/3		7196A		50 mL	50 mL		0 Absorbance		
LCS 240-333695/4		7196A		50 mL	50 mL		0.198 Absorbance	0.25 mL	
240-97687-A-3	FWGmw-022-062618 -GW	7196A	Т	50 mL	50 mL	0.010 Absorbance	0.005 Absorbance		
240-97687-A-2	FWGmw-019-062618 -GW	7196A	Т	50 mL	50 mL	0.008 Absorbance	0.004 Absorbance		
240-97687-A-1	LL3mw-244-062618 -GW	7196A	Т	50 mL	50 mL	0.002 Absorbance	0.002 Absorbance		
240-97687-A-4	FWGmw-023-062618 -GW	7196A	Т	50 mL	50 mL	0.009 Absorbance	0.002 Absorbance		
CCV 240-333695/13		7196A		50 mL	50 mL		0.190 Absorbance		0.25 mL
CCB 240-333695/14		7196A		50 mL	50 mL		0 Absorbance		

В	atch Notes
Acid Used for pH Adjustment ID	3294428
Spectrophotometer Cell Path Length	1 cm
Color Reagent ID	3666038
Pipette/Syringe/Dispenser ID	E9

Basis	Basis Description
Т	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

7196A Page 1 of 1

Calibration

Curve Type: Weighting: Linear

None None

Dependency:

Concentration

Calib Mode:

Origin:

ESTD AREA

Response Base: RF Rounding:

0

Curve Coefficients

Intercept: Slope: -0.001879

1.373

Error Coefficients

Standard Error:

0.00526

Relative Standard Error:

16.9

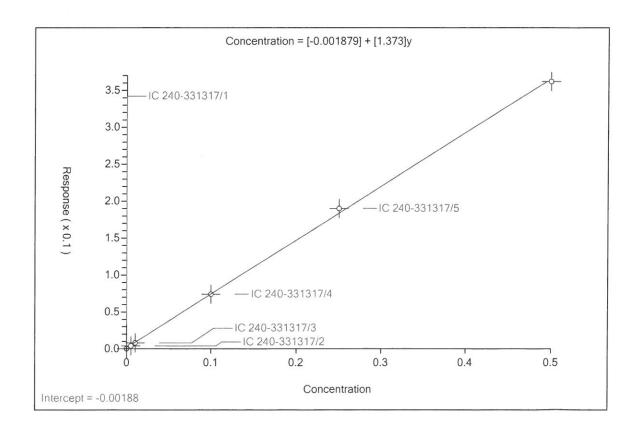
Correlation Coefficient:

1.000

Coefficient of Determination (Adjusted):

0.999 (0.999)

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 240-331317/1	0.0	0.0			NaN	Υ
2	IC 240-331317/2	0.004998	0.004			0.800378	Υ
3	IC 240-331317/3	0.009995	0.008			0.800378	Υ
4	IC 240-331317/4	0.099953	0.074			0.74035	Υ
5	IC 240-331317/5	0.249882	0.19			0.760359	Y
6	IC 240-331317/6	0.499764	0.362			0.724342	Υ
6	IC 240-331317/6	0.499764	0.362			0.724342	



Shipping and Receiving Documents

Myada, CO 80002 Phone (303) 736-0100 Fax (303) 431-7171														1000	CADER IN ST	WINCOMMETATAL TESTA
	S"KLIOCKF		Lab PM McEni	Lab PM. McEntee, Patrick J	7		Car	Carrier Tracking No(s)	No(s):					COC No	(0)	
Shert Confact Danvelle Phillips	Prore 434-41	10-20	Z E-Mall	mcentee	E-Mail: patrick mcentee@testamericainc.com	ainc.com								Риде		
ompany Sardno TEC, Inc							A	Analysis F	Requested	pe				Job #		
Sulfa 100	Due Date Requested:													Prese	Preservation Codes	
	TAT Requested (days): 20 Business	ess Days		TANK!							(SWIL Q.)			A - HGL B - NnOH C - Zn Ace O - Nitric A	HGL NaOH Zn Acetate Nitric Acid	M - Hexane N - None O - AshaO2 P - Na2O4S
31	***************************************										он ы		_	E - NaHSO	NeOH MeOH	Q - Na2SO3 R - Na2S2SO3
434-906-2085				(0)		_			_				/SIN	G - Amehlor H - Ascorbic	nehlor searble Acid	S - H2SO4 T - TSP Dodecahydrate
Email: Danyelle,Phillips@cardno-gs.com	WO#. 076003.009.011						-	stri	-				1.030	J-Di Wets	Water	U - Acetone V - MCAA
Ravenna, OH -	Project #. 28014271						_		N.					enist	DA.	Z - other (specify)
ng	SSOW#.				S isiJ	י ביופנ ש		AND SHAPE	- A014	0	, Kaji		eje.		44.	
	-	Sample Type (C=comp,	Matrix (Winnester, Smooth, Ornesteriol,	erform MSIN ecform MSIN	510D - SVOCE	2700 - SVOCE	4 - MIS_G075	3308 - Explos	110C/8020A/7	T\A0508\D010	nileylA - 8050	ebilliu2 - #50	560 - Perchion 560 - Perchion 110C - Phospi	nedmin ledo	K	day
Sample Identification	Sample Date Time	G=grab)	Segrab) Brethmus, Anda) Preservation Code:		8 Z	2 83	Z	-	9 0	0 0	Z	C/B	19 Z		Special In	Special Instructions/Note:
LL3mw-244-062618-GW	042618 1331	-	3	3										-		
35	6-26-18 13.33	6	3	3												
3-6	87-36-48 1448	7	3	3							X					
5	6-26-18 1619	3	3	3							/			-		
				-	_		_	_		=	7	1	1			
				1							1	1	1			
				1							-	1	1		1	
	1			1	240-97687	7 Chain	Chain of Custody	ody		1		1	1		0	2
				+	-	-	-	-		-	F	-	F			
Possible Hazard Identification				Samp	Sample Disposal (A fee may be assessed if samples are retained longer than	(A fee m	ay be ass	essed If s	amples ar	e retained for	d longer	E	onth)			
Other (specify)	OUKNOWN	radiological		Specia	Special Instructions/QC Requirements:	s/QC Req	uirements	Uisposal by Lab ents:	06	Archive	8 101		MONITOR			
Empty Kit Relinquished by:	Date:			Time:				Method o	lethod of Shipment:	"		-				
Rain history by.	1818C-2	5291		olmo Ra	Received by:	1	1	à	Z	102	PatarTime	126	3/1	831	3	J Charles
Ramquished by:	Cate/Time:		Company	Re	A Par		/	1)		6.23	317		ass	0	Company 74
Relinquished by:	Oate/Time:		Company	R	Received by:						Date/Time,					Company
Custody Soale Intact Custody Soal No				Co	Cooler Terroscativa(c) C and Other Bernaries	Tolah PC. an	A Miles Dam	-								

TestAmerica Canton Sample Rece Canton Facility	ipt Form/Narrative	Logi	in#:_97687	
Client Arouo	Site Name	~	Cooler unpacked by:	
Cooler Received on 6-27118	Opened on 4	27-18	FOP	
FedEx: 1st Grd Exp UPS FAS		(TestAmerica Courier	Other	-
Receipt After-hours: Drop-off Date/1		Storage Location	Journel	
TestAmerica Cooler #	Foam Box Client Cooler			
Packing material used: Bubble COOLANT: Vet Ice 1. Cooler temperature upon receipt	Wrap Foam Plastic Bas	None Other _		
IR GUN# IR-8 (CF +0 °C) Ob IR GUN #36 (CF -0.3 °C) Ob IR GUN # 627 (CF -1.3 °C) Ob	served Cooler Temp	°C Corrected Cooler Ter °C Corrected Cooler Ter	mp°C	
Were tamper/custody seals on the -Were the seals on the outside o -Were tamper/custody seals on t -Were tamper/custody seals inta	f the cooler(s) signed & dated the bottle(s) or bottle kits (LLI	? Ye Hg/MeHg)? Ye	es No MA es No NA es No NA	
3. Shippers' packing slip attached to	the cooler(s)?		es No	
4. Did custody papers accompany the	e sample(s)?	Ye	No Tests that are not	٦
Were the custody papers relinquis			checked for pH by	1
6. Was/were the person(s) who colle		74	SNo Receiving:	-
Did all bottles arrive in good cond			D No	1
8. Could all bottle labels be reconciled			No VOAs Oil and Grease	1
Were correct bottle(s) used for the		1	TOC	
10. Sufficient quantity received to per	form indicated analyses?		8 No	
11. Are these work share samples?			es No	
If yes, Questions 12-16 have been				
12. Were all preserved sample(s) at th	e correct pH upon receipt?		es No NA pH Strip Lot# HC74084	0
13. Were VOAs on the COC?			es NO	
14. Were air bubbles >6 mm in any V			es No NA	
15. Was a VOA trip blank present in t			es No	
16. Was a LL Hg or Me Hg trip blank	present?	1	is No	
Contacted PM Date	by	via Verbal	Voice Mail Other	
Concerning				
IS CHANGE CHOTODY & SAM	DI E DICCDER ANCIEC		Samples processed by:	-
17. CHAIN OF CUSTODY & SAM	FLE DISCREFANCIES		P =D	
				_
18. SAMPLE CONDITION				
Sample(s)	were received aft			
Sample(s)			ed in a broken container.	
Sample(s)	were rece	ived with bubble >6 mm	in diameter. (Notify PM)	
19. SAMPLE PRESERVATION				
Sample(e)		ware fi	urther preserved in the laboratory.	
Sample(s) Preserved: Preserved:	rvative(s) added/Lot number(s	s):	artificial preserved in the laboratory.	5
11000	and the state of t			

Login Sample Receipt Checklist

Client: Cardno GS, Inc Job Number: 240-97687-1

Login Number: 97687 List Source: TestAmerica Canton

List Number: 1

Creator: Dolezal, Derren S

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	