ANALYTICAL REPORT

Job Number: 280-116020-2

Job Description: Leidos RFP# 001088 - Ravenna AAP-66

For:
Leidos, Inc.
Picatinny Arsenal
356 Ninth Avenue
Suite 106
Dover, NJ 07801

Attention: Rita Schmon-Stasik

Approved for release.
Donna R Rydberg
Senior Project Manager
10/31/2018 10:10 AM

Donna R Rydberg, Senior Project Manager
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0192
donna.rydberg@testamericainc.com
10/31/2018

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.

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Glossary

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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum 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
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: Leidos, Inc.

Project: Leidos RFP# 001088 - Ravenna AAP-66

Report Number: 280-116020-2

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 10/24/2018 at 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the cooler for the hexavalent chromium sample was 4.5º C.

The Hexavlent chromium data will be found in this report. This test was performed by the TestAmerica North Canton laboratory due to the short hold time. As North Canton does not hold DOD certs this method is being reported separate from the other DOD tests. The remaining tests requiring DOD will be reported under job 280-116020-1.

HEXAVALENT CHROMIUM

Samples LL1mw-083-181001-GW (280-116020-5) and LL1mw-084-181001-GW (280-116020-6) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were analyzed on 10/24/2018.

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

Detection Summary

Client: Leidos, Inc. TestAmerica Job ID: 280-116020-2
Project/Site: Leidos RFP# 001088 - Ravenna AAP-66

Client Sample ID: LL1mw-083-181001-GW Lab Sample ID: 280-116020-5

No Detections.

Client Sample ID: LL1mw-084-181001-GW Lab Sample ID: 280-116020-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: LL1mw-083-181001-GW — Lab Sample ID: 280-116020-5

Date Collected: 10/24/18 13:25 **Matrix: Water**
Date Received: 10/24/18 17:47

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	ND		0.020	0.0030	mg/L			10/24/18 19:37	1

Client Sample ID: LL1mw-084-181001-GW — Lab Sample ID: 280-116020-6

Date Collected: 10/24/18 09:30 **Matrix: Water**
Date Received: 10/24/18 17:47

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	ND		0.020	0.0030	mg/L			10/24/18 19:36	1

Default Detection Limits

Client: Leidos, Inc.
Project/Site: Leidos RFP# 001088 - Ravenna AAP-66

TestAmerica Job ID: 280-116020-2

General Chemistry

Analyte	RL	MDL	Units	Method
Hexavalent chromium	0.020	0.0030	mg/L	7196A

QC Association Summary

Client: Leidos, Inc.
TestAmerica Job ID: 280-116020-2
Project/Site: Leidos RFP# 001088 - Ravenna AAP-66

General Chemistry

Analysis Batch: 351644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-116020-5	LL1mw-083-181001-GW	Total/NA	Water	7196A	
280-116020-6	LL1mw-084-181001-GW	Total/NA	Water	7196A	

Lab Chronicle

Client: Leidos, Inc.
Project/Site: Leidos RFP# 001088 - Ravenna AAP-66

TestAmerica Job ID: 280-116020-2

Client Sample ID: LL1mw-083-181001-GW
Date Collected: 10/24/18 13:25
Date Received: 10/24/18 17:47

Lab Sample ID: 280-116020-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1	50.0 mL	50.0 mL	351644	10/24/18 19:37	BLW	TAL CAN

Client Sample ID: LL1mw-084-181001-GW
Date Collected: 10/24/18 09:30
Date Received: 10/24/18 17:47

Lab Sample ID: 280-116020-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1	50.0 mL	50.0 mL	351644	10/24/18 19:36	BLW	TAL CAN

Laboratory References:

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

Accreditation/Certification Summary

Client: Leidos, Inc. TestAmerica Job ID: 280-116020-2
Project/Site: Leidos RFP# 001088 - Ravenna AAP-66

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

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	07-31-19
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	07-31-19
Nevada	State Program	9	OH00048	07-31-19
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	08-31-19 *
Texas	NELAP	6	T104704517-17-9	08-31-19
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-19
Washington	State Program	10	C971	01-12-19
West Virginia DEP	State Program	3	210	12-31-18 *

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

Method Summary

Client: Leidos, Inc. TestAmerica Job ID: 280-116020-2
Project/Site: Leidos RFP# 001088 - Ravenna AAP-66

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: Leidos, Inc.
TestAmerica Job ID: 280-116020-2
Project/Site: Leidos RFP# 001088 - Ravenna AAP-66

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-116020-5	LL1mw-083-181001-GW	Water	10/24/18 13:25	10/24/18 17:47
280-116020-6	LL1mw-084-181001-GW	Water	10/24/18 09:30	10/24/18 17:47

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 280-116020-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
WCCHROME50PPM_00025	03/11/19	09/11/18	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 Reagent)		Hexavalent chromium	0.35344 g/g

Reagent

WCKDICHROME62_00004

Fisher Scientific

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	**P188**	**Mfg. Date**	**11/16/2012**
Lot Number	**126893**		
Description	**POTASSIUM DICHROMATE, A.C.S.**		
Country of Origin	**United States**	**Recommended Retest Date**	**Nov-2017**
Chemical Origin	**Inorganic-non animal**		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

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

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.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 280-116020-2

SDG No.:

Project: Leidos RFP# 001088 - Ravenna AAP-66

Client Sample ID	Lab Sample ID
LL1mw-083-181001-GW	280-116020-5
LL1mw-084-181001-GW	280-116020-6

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: LL1mw-083-181001-GW
Lab Sample ID: 280-116020-5
Lab Name: TestAmerica Canton
Job No.: 280-116020-2
SDG ID.:
Matrix: Water
Date Sampled: 10/24/2018 13:25
Reporting Basis: WET
Date Received: 10/24/2018 17:47

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Hexavalent chromium	ND	0.020	0.0030	mg/L			1	7196A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: LL1mw-084-181001-GW
Lab Sample ID: 280-116020-6
Lab Name: TestAmerica Canton
Job No.: 280-116020-2
SDG ID.:
Matrix: Water
Date Sampled: 10/24/2018 09:30
Reporting Basis: WET
Date Received: 10/24/2018 17:47

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18540-29-9	Hexavalent chromium	ND	0.020	0.0030	mg/L			1	7196A

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 280-116020-2

SDG No.:

Analyst: BLW Batch Start Date: 10/24/2018

Reporting Units: mg/L Analytical Batch No.: 351644

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
51	CCV	19:38	Hexavalent chromium	0.248	0.250	99	90-110		WCCHROME50PPM_00025
52	CCB	19:39	Hexavalent chromium	ND					

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

FORM II-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 280-116020-2

SDG Number:

Matrix: Water Instrument ID: OSCAR

Method: 7196A MDL Date: 04/25/2017 11:21

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

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 280-116020-2

SDG Number:

Matrix: Water Instrument ID: OSCAR

Method: 7196A XMDL Date: 04/25/2017 11:21

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

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 280-116020-2

SDG No.:

Instrument ID: OSCAR Analysis Method: 7196A

Start Date: 10/24/2018 09:19 End Date: 10/24/2018 19:39

Lab Sample Id	D/F	Type	Time	Analytes																								
				Cr6																								
CCV 240-351644/1			09:19																									
CCB 240-351644/2			09:19																									
ZZZZZZ			09:20																									
ZZZZZZ			09:21																									
ZZZZZZ			09:22																									
ZZZZZZ			09:22																									
ZZZZZZ			09:23																									
ZZZZZZ			09:23																									
ZZZZZZ			09:24																									
ZZZZZZ			09:25																									
ZZZZZZ			09:26																									
ZZZZZZ			09:26																									
CCV 240-351644/13			09:27																									
CCB 240-351644/14			09:28																									
ZZZZZZ			09:28																									
CCV 240-351644/16			09:29																									
CCB 240-351644/17			09:30																									
ZZZZZZ			09:40																									
ZZZZZZ			09:41																									
ZZZZZZ			09:42																									
ZZZZZZ			09:43																									
ZZZZZZ			09:44																									
ZZZZZZ			09:45																									
ZZZZZZ			09:46																									
ZZZZZZ			09:47																									
CCV 240-351644/26			09:48																									
CCB 240-351644/27			09:49																									
ZZZZZZ			09:50																									
ZZZZZZ			09:51																									
ZZZZZZ			09:52																									
CCV 240-351644/31			09:53																									
CCB 240-351644/32			09:54																									
ZZZZZZ			11:34																									
CCV 240-351644/34			11:34																									
CCB 240-351644/35			11:34																									
ZZZZZZ			11:34																									
CCV 240-351644/37			11:34																									
CCB 240-351644/38			11:34																									
ZZZZZZ			14:33																									
ZZZZZZ			14:35																									
ZZZZZZ			14:40																									

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 280-116020-2

SDG No.:

Instrument ID: OSCAR Analysis Method: 7196A

Start Date: 10/24/2018 09:19 End Date: 10/24/2018 19:39

Lab Sample Id	D/F	Type	Time	Analytes																								
				Cr6																								
ZZZZZZ			14:45																									
ZZZZZZ			14:48																									
ZZZZZZ			14:50																									
ZZZZZZ			14:51																									
ZZZZZZ			14:55																									
CCV 240-351644/47			14:58																									
CCB 240-351644/48			15:00																									
280-116020-6	1	T	19:36	X																								
280-116020-5	1	T	19:37	X																								
CCV 240-351644/51	1		19:38	X																								
CCB 240-351644/52	1		19:39	X																								

Prep Types:
T = Total/NA

FORM XIII-IN

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 280-116020-2

SDG No.:

Batch Number: 349697 Batch Start Date: 10/11/18 17:20 Batch Analyst: Moser, Morgan

Batch Method: 7196A Batch End Date: 10/11/18 17:35

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	UnCorResp	WCCHROME50PPM 00025		
IC 240-349697/1		7196A		50 mL	50 mL	0 Absorbance			
IC 240-349697/2		7196A		50 mL	50 mL	0.004 Absorbance	0.005 mL		
IC 240-349697/3		7196A		50 mL	50 mL	0.008 Absorbance	0.01 mL		
IC 240-349697/4		7196A		50 mL	50 mL	0.084 Absorbance	0.1 mL		
IC 240-349697/5		7196A		50 mL	50 mL	0.191 Absorbance	0.25 mL		
IC 240-349697/6		7196A		50 mL	50 mL	0.369 Absorbance	0.5 mL		

Batch Notes	
Acid Used for pH Adjustment ID	3715210
Spectrophotometer Cell Path Length	1 cm
Color Reagent ID	3830583
Phosphoric Acid ID	3521890
Pipette/Syringe/Dispenser ID	E5

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 280-116020-2

SDG No.:

Batch Number: 351644 Batch Start Date: 10/24/18 09:19 Batch Analyst: Woodward, Bruce

Batch Method: 7196A Batch End Date: 10/24/18 19:36

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ColorBlk	UnCorResp	WCCHROME50PPM 00025	
280-116020-K-6	LL1mw-084-181001 -GW	7196A	T	50.0 mL	50.0 mL	0 Absorbance	0.001 Absorbance		
280-116020-J-5	LL1mw-083-181001 -GW	7196A	T	50.0 mL	50.0 mL	0 Absorbance	0.001 Absorbance		
CCV 240-351644/51		7196A		50.0 mL	50.0 mL		0.186 Absorbance	0.25 mL	
CCB 240-351644/52		7196A		50.0 mL	50.0 mL		0 Absorbance		

Batch Notes	
Acid Used for pH Adjustment ID	3715210
Spectrophotometer Cell Path Length	1 cm
Color Reagent ID	3863006
Pipette/Syringe/Dispenser ID	E6

Basis	Basis Description
T	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.

Calibration

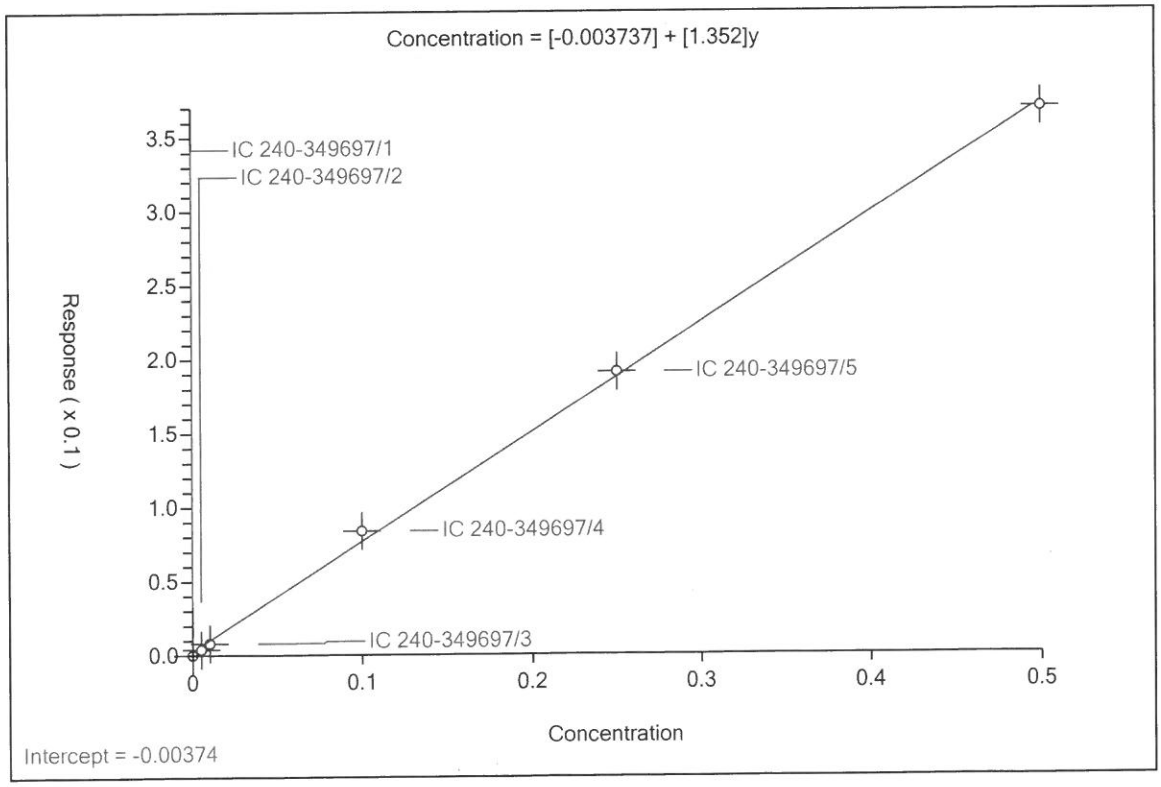
Calib 349697-0 / Cr (VI)

Curve Type:	Linear
Weighting:	None
Origin:	None
Dependency:	Concentration
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

Curve Coefficients	
Intercept:	-0.003737
Slope:	1.352

Error Coefficients	
Standard Error:	0.00659
Relative Standard Error:	42.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999 (0.999)

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 240-349697/1	0.0	0.0			NaN	Y
2	IC 240-349697/2	0.004998	0.004			0.800378	Y
3	IC 240-349697/3	0.009995	0.008			0.800378	Y
4	IC 240-349697/4	0.099953	0.084			0.840397	Y
5	IC 240-349697/5	0.249882	0.191			0.764361	Y
6	IC 240-349697/6	0.499764	0.369			0.738349	Y



Subcontract Data

Shipping and Receiving Documents

Chain of Custody Record

leidos

COC No.: RVAAP-006-TA

Page 1 of 1 Date: 10/24/18

Name Leidos
Address: 8866 Commons Blvd. Suite 201, Twinsburg, OH 44087
Phone Number: (330) 405-5802
Project Manager: Jed Thomas
Project: RVAAP FWGW Sampling Event
Job/P.O. No.: P010216426
Sampler (Signature) (Printed Name)

RL Ryan Lausch

Laboratory Name: Test America -Canton
Address: 4101 Shuffel St NW
North Canton, OH 44720
Phone: (330) 497-9396
Fax:
Contact:

OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS

Laboratory No.	Sample ID	Site Type	Depth	Date	Time	Matrix	VOCs (1)(B)	SVOC (phthalates/nitroarom/phenols) (2)(A)	LL PAHs (3)(A)	Explosives (6)(A)	Pesticides/PCB (5)(A)	PCBs (4)(A)	TAL Metals (7)(C)	Cyanide (8)(D)	Alkalinity/Sulfate/Nitrate/Nitrite (10)(A)	Sulfide (9)(E)	Perchlorate (11)(A)	Nitrocellulose (12)(A)	Hexavalent Chromium (13)(A)	Temperature Blank	Total Number of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
	DET-004-181001-GW	GW	N/A	10/24/18	1120	W	3	2	1	2	2		1	1							12	Associated with Field Blank FBGTB-181003-TB
	~~FBWTB-181004-TB~~			~~10/24/18~~	~~1120~~		~~2~~		~~CS~~		~~10/24/18~~											
																						reduced volume
						CS					10/24/18											
																					12	MA 10/24/18

280-116020 Chain of Custody

Relinquished by	Date	Received by	Date	Notes: Total Number of Containers: 18	Shipment Method: Courier
Signature	10/24/18	Test America	10/24/18	A. Cool, 4C; E. NaOH/Zn Acetate, pH>9, Cool 4C	
Heather Adams	Time	Signature RC Robison	Time	B. HCl, pH<2, Cool, 4C	
Printed Name	1600	Printed Name Rick Robison	1600	C. HNO3, pH<2, Cool, 4C	
Leidos		Company		D. NaOH, pH>12, Cool 4C	
Company				1. SW 8260; 2. SW 8270; 3. SW 8270SIM; 4. SW 8082; 5. SW 8081/8082; 6. SW 8330; 7. SW 6010; 8. SW 9012; 9. SW 9034; 10. SW 9056/SM2320; 11. SW 6860; 12. EPA 353.2; 13. SW 7196	Notes:
Relinquished by TA, 240	Date 10/26/18	Received by	Date 10/29/18		
Signature RC Robison	Time 1723	Signature	Time 0900		
Printed Name Robison		Printed Name Jessica Court			
Company		Company TAEN			

Temperature Blank

Lab:
Leidos
8866 Commons Drive
Twinsburg, OH 44087
(330) 405-5802

Leidos

White: Laboratory Pink: Project Manager Yellow: Project QAO Goldenrod: Field Project Manager

leidos

Chain of Custody Record

COC No.: **RVAAP-046-TA**

Page 1 of 1 Date: 10/24/18

Name Leidos
Address: 8866 Commons Blvd. Suite 201, Twinsburg, OH 44087
Phone Number: (330) 405-5802
Project Manager: Jed Thomas
Project: RVAAP FWGW Sampling Event
Job/P.O. No.: P010216426
Sampler (Signature) (Printed Name) Gabrielle Gromofsky

Laboratory Name: Test America -Canton
Address: 4101 Shuffel St NW
North Canton, OH 44720
Phone: (330) 497-9396
Fax:
Contact:

Requested Parameters

Laboratory No.	Sample ID	Site Type	Depth	Date	Time	Matrix	VOCs (1)(B)	SVOCs (Phthalates) (2)(A)	LL PAHs (3)(A)	Explosives (6)(A)	Pesticides (5)(A)	PCBs (4)(A)	TAL Metals (7)(C)	Cyanide (8)(D)	Alkalinity/Sulfate/Nitrate/Nitrite (10)(A)	Sulfide (9)(E)	Perchlorate (11)(A)	Nitrocellulose (12)(A)	Hexavalent Chromium (13)(A1)	Temperature Blank	Total Number of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
	LL1mw-083-181001-GW	GW	NA	10/24/18	1325	W		2		2	2				1	1			1		9	Cr6 filtered

Total Number of Containers: 9

Relinquished by	Date	Received by	Date
Signature: [signature]	10/24/18	Signature: Test America / RC Robison	10/24/18
Printed Name: Heather Adams	Time: 1000	Printed Name: Rick Robison	Time: 1600
Company: Leidos		Company:	
Relinquished by	Date	Received by	Date
Signature: TA; RC Robison	10/24/18	Signature: [signature]	10/25/18
Printed Name: Robison	Time: 1723	Printed Name: Jessica Quint	Time: 0900
Company:		Company: TA DEN	

Notes:
A. Cool, 4C
A1. Field filtered, Cool, 4C
B. HCl, pH<2, Cool, 4C
C. HNO3, pH<2, Cool, 4C
D. NaOH, pH>12, Cool 4C
E. NaOH/Zn Acetate, pH>9, Cool 4C

1. SW 8260
2. SW 8270
3. SW 8270SIM
4. SW 8082
5. SW 8081
6. SW 8330
7. SW 6010
8. SW 9012
9. SW 9034
10. SW 9056/SM2320
11. SW 6860
12. EPA 353.2
13. SW 7196

Notes:

Shipment Method: Courier

Temperature Blank

Lab:

Leidos
8866 Commons Drive
Twinsburg, OH 44087
(330) 405-5802

Leidos White: Laboratory Pink: Project Manager Yellow: Project QAO Goldenrod: Field Project Manager

Chain of Custody Record

leidos

COC No.: RVAAP-047-TA

Page 1 of 1 Date: 10/24/18

Name Leidos
Address: 8866 Commons Blvd. Suite 201, Twinsburg, OH 44087
Phone Number: (330) 405-5802
Project Manager: Jed Thomas
Project: RVAAP FWGW Sampling Event
Job/P.O. No.: P010216426
Sampler (Signature) (Printed Name)

Gabrielle Gromofsky

Laboratory Name: Test America -Canton
Address: 4101 Shuffel St NW
North Canton, OH 44720
Phone: (330) 497-9396
Fax:
Contact:

Laboratory No.	Sample ID	Site Type	Depth	Date	Time	Matrix	VOCs (1)(B)	SVOCs (Phthalates) (2)(A)	LL PAHs (3)(A)	Explosives (6)(A)	Pesticides (5)(A)	PCBs (4)(A)	TAL Metals (7)(C)	Cyanide (8)(D)	Alkalinity/Sulfate/Nitrate/Nitrite (10)(A)	Sulfide (9)(E)	Perchlorate (11)(A)	Nitrocellulose (12)(A)	Hexavalent Chromium (13)(A1)	Temperature Blank	Total Number of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
	LL1mw-084-181001-GW	GW	NA	10/24/18	0930	W		2		2	2		1	1	1	1			1		11	Cr6 filtered

Requested Parameters

Relinquished by: Heather Adams — Date: 10/24/18 — Time: 1600 — Signature — Printed Name — Leidos — Company

Received by: Test America — Signature: RC — Printed Name: Rick Robison — Company — Date: 10/24/18 — Time: 1600

Relinquished by: TAI 240 — Signature: RC — Printed Name: Robison — Company — Date: 10/26/18 — Time: 1723

Received by — Signature — Printed Name: Jessica Count — Company: PADEP — Date: 10/25/18 — Time: 0900

Notes: Total Number of Containers: 11

A. Cool, 4C
A1. Field filtered, Cool, 4C
B. HCl, pH<2, Cool, 4C
C. HNO3, pH<2, Cool, 4C
D. NaOH, pH>12, Cool 4C
E. NaOH/Zn Acetate, pH>9, Cool 4C

1. SW 8260
2. SW 8270
3. SW 8270SIM
4. SW 8082
5. SW 8081
6. SW 8330
7. SW 6010
8. SW 9012
9. SW 9034
10. SW 9056/SM2320
11. SW 6860
12. EPA 353.2
13. SW 7196

Notes:

Shipment Method: Courier

Temperature Blank

Lab:
Leidos
8866 Commons Drive
Twinsburg, OH 44087
(330) 405-5802

Leidos — White: Laboratory — Pink: Project Manager — Yellow: Project QAO — Goldenrod: Field Project Manager

leidos

Chain of Custody Record

COC No.: **RVAAP-022-TA**

Page 1 of 1 Date: 10/24/18

Name Leidos
Address: 8866 Commons Blvd. Suite 201, Twinsburg, OH 44087
Phone Number: (330) 405-5802
Project Manager: Jed Thomas
Project: RVAAP FWGW Sampling Event
Job/P.O. No.: P010216426
Sampler (Signature) [signature] (Printed Name) Ryan Launch

Laboratory Name: Test America -Canton
Address: 4101 Shuffel St NW
North Canton, OH 44720
Phone: (330) 497-9396
Fax:
Contact:

Requested Parameters

Laboratory No.	Sample ID	Site Type	Depth	Date	Time	Matrix	VOCs (1)(B)	SVOCs (2)(A)	LL PAHs (3)(A)	Explosives (6)(A)	Pesticides (5)(A)	PCBs (4)(A)	TAL Metals (7)(C)	Cyanide (8)(D)	Alkalinity/Sulfate/Nitrate/Nitrite (10)(A)	Sulfide (9)(E)	Perchlorate (11)(A)	Nitrocellulose (12)(A)	Hexavalent Chromium (13)(A)	Temperature Blank	Total Number of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
	FWGmw-013-181001-GW	GW	NA	10/24/18	1355	W								1							1	

Relinquished by	Date	Received by	Date
Signature: [signature]	10/24/2018	Signature: Test America	10/24/18
Printed Name: Heather Adams	Time: 1080	Printed Name: Rick Robson	Time: 1600
Company: Leidos		Company:	

Relinquished by	Date	Received by	Date
TA, 260	10/24/18		
Signature: R Robson		Signature: [signature]	10/25/18
Printed Name: Robison	Time: 1723	Printed Name: Jessica Durant	Time: 0100
Company:		Company: TADEN	

Notes: Total Number of Containers: 1

A. Cool, 4C
B. HCl, pH<2, Cool, 4C
C. HNO3, pH<2, Cool, 4C
D. NaOH, pH>12, Cool 4C
E. NaOH/Zn Acetate, pH>9, Cool 4C

1. SW 8260
2. SW 8270
3. SW 8270SIM
4. SW 8082
5. SW 8081
6. SW 8330
7. SW 6010
8. SW 9012
9. SW 9034
10. SW 9056/SM2320
11. SW 6860
12. EPA 353.2
13. SW 7196

Notes:

Shipment Method: Courier

Temperature Blank

Lab:

Leidos
8866 Commons Drive
Twinsburg, OH 44087
(330) 405-5802

Chain of Custody Record

leidos

COC No.: RVAAP-004-TA

Page 1 of 1 Date: 10/24/2016

Name Leidos
Address: 8866 Commons Blvd. Suite 201, Twinsburg, OH 44087
Phone Number: (330) 405-5802
Project Manager: Jed Thomas
Project: RVAAP FWGW Sampling Event
Job/P.O. No.: P010216426
Sampler (Signature) (Printed Name) HEATHER ADAMS

Laboratory Name: Test America -Canton
Address: 4101 Shuffel St NW
North Canton, OH 44720
Phone: (330) 497-9396
Fax:
Contact:

Laboratory No.	Sample ID	Site Type	Depth	Date	Time	Matrix	VOCs (1)(B)	SVOCs (Phthalates) (2)(A)	LL PAHs (3)(A)	Explosives (6)(A)	Pesticides (5)(A)	PCBs (4)(A)	TAL Metals (7)(C)	Cyanide (8)(D)	Alkalinity/Sulfate/Nitrate/Nitrite (10)(A)	Sulfide (9)(E)	Perchlorate (11)(A)	Nitrocellulose (12)(A)	Hexavalent Chromium (13)(A)	Temperature Blank	Total Number of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
	DA2mw-115-181001-GW	GW	NA	10/24/2016	1245	W		2		2			1	1							6	
	DA2mw-115-181002-GW	GW			1245	W				2			1	1							4	
	DA2mw-115-181001-GWMSD	MSD			1245	W				4			1	2							7	Extra Volume for MS/MSD, only parameters indicated

Requested Parameters

Relinquished by	Date	Received by	Date
Signature	10/24/16	Signature	10/24/16
Printed Name: HEATHER ADAMS	Time: 1600	Printed Name: RICK ROBSON	Time: 1600
Company: Leidos		Company	
Relinquished by: TA, 2nd	Date: 10/24/16	Received by	Date: 10/25/16
Signature	Time	Signature	Time: 0900
Printed Name: ROBSON		Printed Name: Jessica Burke	
Company		Company: TMDCN	

Notes: Total Number of Containers: 17

A. Cool, 4C
B. HCl, pH<2, Cool, 4C
C. HNO3, pH<2, Cool, 4C
D. NaOH, pH>12, Cool 4C
E. NaOH/Zn Acetate, pH>9, Cool 4C

1. SW 8260
2. SW 8270
3. SW 8270SIM
4. SW 8082
5. SW 8081
6. SW 8330
7. SW 6010
8. SW 9012
9. SW 9034
10. SW 9056/SM2320
11. SW 6860
12. EPA 353.2
13. SW 7196

Notes:

Shipment Method: Courier

Temperature Blank
Lab:

Leidos
8866 Commons Drive
Twinsburg, OH 44087
(330) 405-5802

Leidos White: Laboratory Pink: Project Manager Yellow: Project QAO Goldenrod: Field Project Manager

Chain of Custody Record

leidos

COC No.: RVAAP-005-TA

Page 1 of 1 Date: 10/24/18

Name Leidos
Address: 8866 Commons Blvd. Suite 201, Twinsburg, OH 44087
Phone Number: (330) 405-5802
Project Manager: Jed Thomas
Project: RVAAP FWGW Sampling Event
Job/P.O. No.: P010216426
Sampler (Signature) (Printed Name)

Jed Thomas Jed Thomas

Laboratory Name: Test America -Canton
Address: 4101 Shuffel St NW
North Canton, OH 44720
Phone: (330) 497-9396
Fax:
Contact:

Laboratory No.	Sample ID	Site Type	Depth	Date	Time	Matrix	VOCs (1)(B)	SVOC (phthalates/nitroaromphenols) (2)(A)	LL PAHs (3)(A)	Explosives (6)(A)	Pesticides/PCB (5)(A)	SVOCs (Phthalates) (2)(A)	TAL Metals (7)(C)	Cyanide (8)(D)	Alkalinity/Sulfate/Nitrate/Nitrite (10)(A)	Sulfide (9)(E)	Perchlorate (11)(A)	Nitrocellulose (12)(A)	Hexavalent Chromium (13)(A)	Temperature Blank	Total Number of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
	DET-003-181001-GW	GW	NA	10/24/18	1005	W	3	2	2	2	2		1	1							13	
	DET-003-181002-GW	GW			1015	W	3		2		2	2									9	
	DET-003-181001-GWMSD	MSD			1015	W	4	4	4												12	Extra Volume for MS/MSD, only parameters indicated
	FWGTB-181002-TB	TB			1005	W	2														2	
																					34	

Jed Thomas 10/24/18

Relinquished by: Signature / Printed Name: HEATHER ADAMS / Company: Leidos — Date: 10/24/18 — Time: 1600

Received by: Signature / Printed Name: RICK ROBISON / Company: Test America — Date: 10/24/18 — Time: 1600

Relinquished by: Signature / Printed Name: ROBISON / Company: — Date: 10/24/18 — Time: 1723

Received by: Signature / Printed Name: Jessica Lunt / Company: TAOC — Date: 10/25/18 — Time: 0900

Notes:
A. Cool, 4C
B. HCl, pH<2, Cool, 4C
C. HNO3, pH<2, Cool, 4C
D. NaOH, pH>12, Cool 4C
E. NaOH/Zn Acetate, pH>9, Cool 4C

Total Number of Containers: 34

1. SW 8260
2. SW 8270
3. SW 8270SIM
4. SW 8082
5. SW 8081/8082
6. SW 8330
7. SW 6010
8. SW 9012
9. SW 9034
10. SW 9056/SM2320
11. SW 6860
12. EPA 353.2
13. SW 7196

Notes:

Shipment Method: Courier — TA 10/26/2018

Temperature Blank

Lab:
Leidos
8866 Commons Drive
Twinsburg, OH 44087
(330) 405-5802

Leidos White: Laboratory Pink: Project Manager Yellow: Project QAO Goldenrod: Field Project Manager

leidos

Chain of Custody Record

COC No.: RVAAP-077-TA
Page 1 of 1 Date: 10/23/18

Name Leidos
Address: 8866 Commons Blvd. Suite 201, Twinsburg, OH 44087
Phone Number: (330) 405-5802
Project Manager: Jed Thomas
Project: RVAAP FWGW Sampling Event
Job/P.O. No.: P010216426
Sampler (Signature) [signature] (Printed Name) Ryan Lauher

Laboratory Name: Test America -Canton
Address: 4101 Shuffel St NW
North Canton, OH 44720
Phone: (330) 497-9396
Fax:
Contact:

Requested Parameters

Laboratory No.	Sample ID	Site Type	Depth	Date	Time	Matrix	VOCs (1)(B)	SVOCs (Phthalates) (2)(A)	LL PAHs (3)(A)	Explosives (6)(A)	Pesticides (5)(A)	PCBs (4)(A)	TAL Metals (7)(C)	Cyanide (8)(D)	Alkalinity/Sulfate/Nitrate/Nitrite (10)(A)	Sulfide (9)(E)	Perchlorate (11)(A)	Nitrocellulose (12)(A)	Hexavalent Chromium (13)(A)	Temperature Blank	Total Number of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
	WBGmw-009-181001-GW	GW	NA	10/23/18	1435	W		2		2			1								5	* REDUCED VOLUME

Relinquished by	Date	Received by	Date	Time
Signature: [signature]	10/24/18	Signature: Test America [signature]	10/24/18	
Printed Name: HEATHER ADAMS	Time: 1000	Printed Name: RICK ROBISON	Time: 1600	
Company: Leidos		Company:		
Relinquished by: TA1. 248	Date: 10/24/18	Received by	Date: 10/25/18	
Signature: [signature]		Signature: [signature]		
Printed Name: ROBISON	Time: 1723	Printed Name: Jessica Cunt	Time: 0940	
Company:		Company: TADEN		

Notes: Total Number of Containers: 5
A. Cool, 4C
B. HCl, pH<2, Cool, 4C
C. HNO3, pH<2, Cool, 4C
D. NaOH, pH>12, Cool 4C
E. NaOH/Zn Acetate, pH>9, Cool 4C

1. SW 8260
2. SW 8270
3. SW 8270SIM
4. SW 8082
5. SW 8081
6. SW 8330
7. SW 6010
8. SW 9012
9. SW 9034
10. SW 9056/SM2320
11. SW 6860
12. EPA 353.2
13. SW 7196

Notes: * 1 SVOC 1L AMBER IS FILLED 1/3 ALL OTHER BOTTLES 100% FULL

Shipment Method: Courier

Temperature Blank

Lab:

Leidos
8866 Commons Drive
Twinsburg, OH 44087
(330) 405-5802

Leidos White: Laboratory Pink: Project Manager Yellow: Project QAO Goldenrod: Field Project Manager

3.6 | 4.5

Leidos Proprietary

Chain of Custody Record

leidos

COC No.: RVAAP-046-TA

Page 1 of 1 Date: 10/24/18

Name Leidos
Address: 8866 Commons Blvd. Suite 201, Twinsburg, OH 44087
Phone Number: (330) 405-5802
Project Manager: Jed Thomas
Project: RVAAP FWGW Sampling Event
Job/P.O. No.: P010216426
Sampler (Signature) (Printed Name)

Gabrielle Gronefsky

Laboratory Name: Test America -Canton
Address: 4101 Shuffel St NW
North Canton, OH 44720
Phone: (330) 497-9396
Fax:
Contact:

Laboratory No.	Sample ID	Site Type	Depth	Date	Time	Matrix	VOCs (1)(B)	SVOCs (Phthalates) (2)(A)	LL PAHs (3)(A)	Explosives (6)(A)	Pesticides (5)(A)	PCBs (4)(A)	TAL Metals (7)(C)	Cyanide (8)(D)	Alkalinity/Sulfate/Nitrate/Nitrite (10)(A)	Sulfide (9)(E)	Perchlorate (11)(A)	Nitrocellulose (12)(A)	Hexavalent Chromium (13)(A1)	Temperature Blank	Total Number of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
	LL1mw-083-181001-GW	GW	MA	10/24/18	1325	W		2		2	2				1	1			1		9	Cr6 filtered

Requested Parameters

280-116020 Chain of Custody

Relinquished by	Date	Received by	Date	Time
Signature	10/24/18	Signature	10/24/18	
HEATHER ADAMS	Time	RC Robison	Time	1600
Printed Name	1600	Printed Name		
Leidos		RCR ROBISON		
Company		Company		
Relinquished by	Date	Received by	Date	
Signature	10/24/18	Signature	10-24-18	
RC Robison	Time		Time	1707
Printed Name	1702	Printed Name		
		TAL		
Company		Company		

Notes: Total Number of Containers: 9

A. Cool, 4C
A1. Field filtered, Cool, 4C
B. HCl, pH<2, Cool, 4C
C. HNO3, pH<2, Cool, 4C
D. NaOH, pH>12, Cool 4C
E. NaOH/Zn Acetate, pH>9, Cool 4C

1. SW 8260
2. SW 8270
3. SW 8270SIM
4. SW 8082
5. SW 8081
6. SW 8330
7. SW 6010
8. SW 9012
9. SW 9034
10. SW 9056/SM2320
11. SW 6860
12. EPA 353.2
13. SW 7196

Notes:

Shipment Method: Courier

Temperature Blank

Lab:
Leidos
8866 Commons Drive
Twinsburg, OH 44087
(330) 405-5802

Leidos White: Laboratory Pink: Project Manager Yellow: Project QAO Goldenrod: Field Project Manager

Chain of Custody Record

leidos

COC No.: **RVAAP-047-TA**

Page 1 of 1 Date: 10/24/18

Name Leidos
Address: 8866 Commons Blvd. Suite 201, Twinsburg, OH 44087
Phone Number: (330) 405-5802
Project Manager: Jed Thomas
Project: RVAAP FWGW Sampling Event
Job/P.O. No.: P010216426
Sampler (Signature) (Printed Name) Gabrielle Gromofsky

Laboratory Name: Test America -Canton
Address: 4101 Shuffel St NW
North Canton, OH 44720
Phone: (330) 497-9396
Fax:
Contact:

Requested Parameters

Laboratory No.	Sample ID	Site Type	Depth	Date	Time	Matrix	VOCs (1)(B)	SVOCs (Phthalates) (2)(A)	LL PAHs (3)(A)	Explosives (6)(A)	Pesticides (5)(A)	PCBs (4)(A)	TAL Metals (7)(C)	Cyanide (8)(D)	Alkalinity/Sulfate/Nitrate/Nitrite (10)(A)	Sulfide (9)(E)	Perchlorate (11)(A)	Nitrocellulose (12)(A)	Hexavalent Chromium (13)(A1)	Temperature Blank	Total Number of Containers	OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
	LL1mw-084-181001-GW	GW	NA	10/24/18	0930	W		2		2	2		1	1	1	1			1		11	CrVI Filtered

Relinquished by	Date	Received by	Date
Signature: [signature]	10/24/18	Signature: Test America / RC [signature]	10/24/18
Printed Name: Natalie Adams	Time: 1100	Printed Name: Rick Robison	Time: 1603
Company: Leidos		Company:	
Relinquished by	Date	Received by	Date
Signature: RC [signature]	10/24/18	Signature: [signature]	10-24-18
Printed Name:	Time: 1702	Printed Name: TAC	Time: 1702
Company:		Company:	

Total Number of Containers: 11

Notes:
A. Cool, 4C
A1. Field filtered, Cool, 4C
B. HCl, pH<2, Cool, 4C
C. HNO3, pH<2, Cool, 4C
D. NaOH, pH>12, Cool 4C
E. NaOH/Zn Acetate, pH>9, Cool 4C

1. SW 8260
2. SW 8270
3. SW 8270SIM
4. SW 8082
5. SW 8081
6. SW 8330
7. SW 6010
8. SW 9012
9. SW 9034
10. SW 9056/SM2320
11. SW 6860
12. EPA 353.2
13. SW 7196

Notes:

Shipment Method: Courier

Temperature Blank

Lab:

Leidos
8866 Commons Drive
Twinsburg, OH 44087
(330) 405-5802

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 280-116020**
Canton Facility

Client LEIDOS Site Name —

Cooler Received on 10-24-18 Opened on 10-24-18

Cooler unpacked by: GOP

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-8 (CF +0.9 °C) Observed Cooler Temp. 3.6 °C Corrected Cooler Temp. 4.5 °C
   IR GUN #36 (CF +0.6°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity —	Yes	No
-Were the seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels be reconciled with the COC?	Yes	No
9. Were correct bottle(s) used for the test(s) indicated?	Yes	No
10. Sufficient quantity received to perform indicated analyses?	Yes	No
11. Are these work share samples?	Yes	No
If yes, Questions 12-16 have been checked at the originating laboratory.		
12. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# **HC849161**
13. Were VOAs on the COC?	Yes	No
14. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____	Yes	No
16. Was a LL Hg or Me Hg trip blank present? _____	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: TB

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 280-116020-2

Login Number: 116020
List Number: 1
Creator: Rydberg, Donna R

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	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.	N/A	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	