

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-105872-1

Client Project/Site: Satralloy - Industrial SWPPP

For:

Golder Associates Inc.

1335 Dublin Road

Suite 126-D

Columbus, Ohio 43215

Attn: Mr. Bob Ireson



Authorized for release by:

1/2/2019 6:43:41 PM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

Job ID: 240-105872-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Golder Associates Inc.

Project: Satralloy - Industrial SWPPP

Report Number: 240-105872-1

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.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

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.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 12/17/2018 8:12 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.9° C and 1.3° C.

TOTAL RECOVERABLE METALS (ICPMS)

Samples FD (240-105872-1), DS01 (240-105872-2), ISWP001 (GC01D) (240-105872-3), ISWP002 (GC02D) (240-105872-4), ISWP003 (GC03D) (240-105872-5), ISWP004 (GC04D) (240-105872-6), ISWP005 (GC05D) (240-105872-7), ISWP006 (GC06D) (240-105872-8), ISWP007 (GC09D) (240-105872-9), ISWP008 (GC10D) (240-105872-10), ISWP009 (GC11D) (240-105872-11) and US01 (240-105872-12) were analyzed for total recoverable metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 12/18/2018 and analyzed on 12/19/2018.

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

TOTAL DISSOLVED SOLIDS

Samples FD (240-105872-1), DS01 (240-105872-2), ISWP001 (GC01D) (240-105872-3), ISWP002 (GC02D) (240-105872-4), ISWP003 (GC03D) (240-105872-5), ISWP004 (GC04D) (240-105872-6), ISWP005 (GC05D) (240-105872-7), ISWP006 (GC06D) (240-105872-8), ISWP007 (GC09D) (240-105872-9), ISWP008 (GC10D) (240-105872-10), ISWP009 (GC11D) (240-105872-11) and US01 (240-105872-12) were analyzed for total dissolved solids in accordance with SM 2540C. The samples were analyzed on 12/24/2018.

Case Narrative

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

Job ID: 240-105872-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

The following samples were analyzed one day outside the holding time due to an analyst oversight. FD (240-105872-1), DS01 (240-105872-2), ISWP001 (GC01D) (240-105872-3), ISWP002 (GC02D) (240-105872-4), ISWP003 (GC03D) (240-105872-5), ISWP004 (GC04D) (240-105872-6), ISWP005 (GC05D) (240-105872-7), ISWP006 (GC06D) (240-105872-8), ISWP006 (GC06D) (240-105872-8[DU]), ISWP007 (GC09D) (240-105872-9), ISWP008 (GC10D) (240-105872-10), ISWP009 (GC11D) (240-105872-11) and US01 (240-105872-12)

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

TOTAL SUSPENDED SOLIDS

Samples FD (240-105872-1), DS01 (240-105872-2), ISWP001 (GC01D) (240-105872-3), ISWP002 (GC02D) (240-105872-4), ISWP003 (GC03D) (240-105872-5), ISWP004 (GC04D) (240-105872-6), ISWP005 (GC05D) (240-105872-7), ISWP006 (GC06D) (240-105872-8), ISWP007 (GC09D) (240-105872-9), ISWP008 (GC10D) (240-105872-10), ISWP009 (GC11D) (240-105872-11) and US01 (240-105872-12) were analyzed for total suspended solids in accordance with SM 2540D. The samples were analyzed on 12/21/2018 and 12/24/2018.

The following samples were analyzed one day outside the holding time due to an analyst oversight. DS01 (240-105872-2), ISWP001 (GC01D) (240-105872-3), ISWP002 (GC02D) (240-105872-4), ISWP003 (GC03D) (240-105872-5), ISWP004 (GC04D) (240-105872-6), ISWP005 (GC05D) (240-105872-7), ISWP006 (GC06D) (240-105872-8), ISWP006 (GC06D) (240-105872-8[DU]), ISWP007 (GC09D) (240-105872-9), ISWP008 (GC10D) (240-105872-10), ISWP009 (GC11D) (240-105872-11) and US01 (240-105872-12)

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

HEXAVALENT CHROMIUM

Samples FD (240-105872-1), DS01 (240-105872-2), ISWP001 (GC01D) (240-105872-3), ISWP002 (GC02D) (240-105872-4), ISWP003 (GC03D) (240-105872-5), ISWP004 (GC04D) (240-105872-6), ISWP005 (GC05D) (240-105872-7), ISWP006 (GC06D) (240-105872-8), ISWP007 (GC09D) (240-105872-9), ISWP008 (GC10D) (240-105872-10), ISWP009 (GC11D) (240-105872-11) and US01 (240-105872-12) were analyzed for hexavalent chromium in accordance with SM 3500 CR B. The samples were analyzed on 12/17/2018.

Filtration through a 0.45um filter within 15 minutes of sampling is required for CWA reporting of hexavalent chromium to prevent interconversion of chromium species. Samples ISWP002 (GC02D) (240-105872-4)[10X] and ISWP003 (GC03D) (240-105872-5)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: FD (240-105872-1).

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

PH

Samples FD (240-105872-1), DS01 (240-105872-2), ISWP001 (GC01D) (240-105872-3), ISWP002 (GC02D) (240-105872-4), ISWP003 (GC03D) (240-105872-5), ISWP004 (GC04D) (240-105872-6), ISWP005 (GC05D) (240-105872-7), ISWP006 (GC06D) (240-105872-8), ISWP007 (GC09D) (240-105872-9), ISWP008 (GC10D) (240-105872-10), ISWP009 (GC11D) (240-105872-11) and US01 (240-105872-12) were analyzed for pH in accordance with SM 4500 H+ B. The samples were analyzed on 12/17/2018.

The pH for the following samples were outside the instrument calibration range of 2 to 12: ISWP002 (GC02D) (240-105872-4) and ISWP003 (GC03D) (240-105872-5).

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

Method Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL CAN
3500-Cr B-2009	Chromium, Hexavalent	SM	TAL CAN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CAN
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL CAN
SM 4500 H+ B	pH	SM	TAL CAN
200.8	Preparation, Total Recoverable Metals	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-105872-1	FD	Water	12/16/18 00:00	12/17/18 08:12
240-105872-2	DS01	Water	12/16/18 11:50	12/17/18 08:12
240-105872-3	ISWP001 (GC01D)	Water	12/16/18 12:10	12/17/18 08:12
240-105872-4	ISWP002 (GC02D)	Water	12/16/18 12:20	12/17/18 08:12
240-105872-5	ISWP003 (GC03D)	Water	12/16/18 12:30	12/17/18 08:12
240-105872-6	ISWP004 (GC04D)	Water	12/16/18 12:40	12/17/18 08:12
240-105872-7	ISWP005 (GC05D)	Water	12/16/18 12:45	12/17/18 08:12
240-105872-8	ISWP006 (GC06D)	Water	12/16/18 13:00	12/17/18 08:12
240-105872-9	ISWP007 (GC09D)	Water	12/16/18 13:20	12/17/18 08:12
240-105872-10	ISWP008 (GC10D)	Water	12/16/18 13:35	12/17/18 08:12
240-105872-11	ISWP009 (GC11D)	Water	12/16/18 13:45	12/17/18 08:12
240-105872-12	US01	Water	12/16/18 14:05	12/17/18 08:12

Detection Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

Client Sample ID: FD

Lab Sample ID: 240-105872-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	9.1		2.0	0.98	ug/L	1		200.8	Total Recoverable
Total Dissolved Solids	250	H	10	7.8	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	260		4.0	2.2	mg/L	1		SM 2540D	Total/NA
pH	7.8	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: DS01

Lab Sample ID: 240-105872-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	11		2.0	0.98	ug/L	1		200.8	Total Recoverable
Total Dissolved Solids	580	H	10	7.8	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	350	H	4.0	2.2	mg/L	1		SM 2540D	Total/NA
pH	7.9	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: ISWP001 (GC01D)

Lab Sample ID: 240-105872-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	170		2.0	0.98	ug/L	1		200.8	Total Recoverable
Cr (VI)	0.21		0.020	0.0030	mg/L	1		3500-Cr B-2009	Total/NA
Total Dissolved Solids	380	H	10	7.8	mg/L	1		SM 2540C	Total/NA
pH	8.7	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: ISWP002 (GC02D)

Lab Sample ID: 240-105872-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	340		2.0	0.98	ug/L	1		200.8	Total Recoverable
Cr (VI)	0.31		0.20	0.030	mg/L	10		3500-Cr B-2009	Total/NA
Total Dissolved Solids	1200	H	40	31	mg/L	1		SM 2540C	Total/NA
pH	12.2	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: ISWP003 (GC03D)

Lab Sample ID: 240-105872-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	490		2.0	0.98	ug/L	1		200.8	Total Recoverable
Cr (VI)	0.40		0.20	0.030	mg/L	10		3500-Cr B-2009	Total/NA
Total Dissolved Solids	1400	H	40	31	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	3.0	J H	4.0	2.2	mg/L	1		SM 2540D	Total/NA
pH	12.2	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: ISWP004 (GC04D)

Lab Sample ID: 240-105872-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	440		2.0	0.98	ug/L	1		200.8	Total Recoverable
Total Dissolved Solids	720	H	10	7.8	mg/L	1		SM 2540C	Total/NA
pH	11.3	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Detection Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

Client Sample ID: ISWP005 (GC05D)

Lab Sample ID: 240-105872-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	290		2.0	0.98	ug/L	1		200.8	Total Recoverable
Total Dissolved Solids	570	H	10	7.8	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	3.0	J H	4.0	2.2	mg/L	1		SM 2540D	Total/NA
pH	8.8	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: ISWP006 (GC06D)

Lab Sample ID: 240-105872-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	28		2.0	0.98	ug/L	1		200.8	Total Recoverable
Cr (VI)	0.029		0.020	0.0030	mg/L	1		3500-Cr B-2009	Total/NA
Total Dissolved Solids	200	H	10	7.8	mg/L	1		SM 2540C	Total/NA
pH	8.1	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: ISWP007 (GC09D)

Lab Sample ID: 240-105872-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	210		2.0	0.98	ug/L	1		200.8	Total Recoverable
Total Dissolved Solids	280	H	10	7.8	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	8.0	H	4.0	2.2	mg/L	1		SM 2540D	Total/NA
pH	8.4	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: ISWP008 (GC10D)

Lab Sample ID: 240-105872-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	1200		2.0	0.98	ug/L	1		200.8	Total Recoverable
Total Dissolved Solids	200	H	10	7.8	mg/L	1		SM 2540C	Total/NA
pH	7.9	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: ISWP009 (GC11D)

Lab Sample ID: 240-105872-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	300		2.0	0.98	ug/L	1		200.8	Total Recoverable
Total Dissolved Solids	420	H	20	16	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	17	H	4.0	2.2	mg/L	1		SM 2540D	Total/NA
pH	11.9	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: US01

Lab Sample ID: 240-105872-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	8.3		2.0	0.98	ug/L	1		200.8	Total Recoverable
Total Dissolved Solids	240	H	10	7.8	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	280	H	4.0	2.2	mg/L	1		SM 2540D	Total/NA
pH	8.2	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

Client Sample ID: FD

Date Collected: 12/16/18 00:00

Date Received: 12/17/18 08:12

Lab Sample ID: 240-105872-1

Matrix: Water

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	9.1		2.0	0.98	ug/L		12/18/18 14:00	12/19/18 16:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.0030	H	0.020	0.0030	mg/L			12/17/18 10:03	1
Total Dissolved Solids	250	H	10	7.8	mg/L			12/24/18 10:07	1
Total Suspended Solids	260		4.0	2.2	mg/L			12/21/18 14:16	1
pH	7.8	HF	0.1	0.1	SU			12/17/18 16:38	1

TestAmerica Canton

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

Client Sample ID: DS01
Date Collected: 12/16/18 11:50
Date Received: 12/17/18 08:12

Lab Sample ID: 240-105872-2
Matrix: Water

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	11		2.0	0.98	ug/L		12/18/18 14:00	12/19/18 16:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.0030		0.020	0.0030	mg/L			12/17/18 09:46	1
Total Dissolved Solids	580	H	10	7.8	mg/L			12/24/18 10:07	1
Total Suspended Solids	350	H	4.0	2.2	mg/L			12/24/18 10:55	1
pH	7.9	HF	0.1	0.1	SU			12/17/18 16:41	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

Client Sample ID: ISWP001 (GC01D)

Lab Sample ID: 240-105872-3

Date Collected: 12/16/18 12:10

Matrix: Water

Date Received: 12/17/18 08:12

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	170		2.0	0.98	ug/L		12/18/18 14:00	12/19/18 16:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.21		0.020	0.0030	mg/L			12/17/18 09:44	1
Total Dissolved Solids	380	H	10	7.8	mg/L			12/24/18 10:07	1
Total Suspended Solids	<2.2	H	4.0	2.2	mg/L			12/24/18 10:55	1
pH	8.7	HF	0.1	0.1	SU			12/17/18 16:43	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

Client Sample ID: ISWP002 (GC02D)

Lab Sample ID: 240-105872-4

Date Collected: 12/16/18 12:20

Matrix: Water

Date Received: 12/17/18 08:12

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	340		2.0	0.98	ug/L		12/18/18 14:00	12/19/18 16:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.31		0.20	0.030	mg/L			12/17/18 09:47	10
Total Dissolved Solids	1200	H	40	31	mg/L			12/24/18 10:07	1
Total Suspended Solids	<2.2	H	4.0	2.2	mg/L			12/24/18 10:55	1
pH	12.2	HF	0.1	0.1	SU			12/17/18 16:49	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

Client Sample ID: ISWP003 (GC03D)

Lab Sample ID: 240-105872-5

Date Collected: 12/16/18 12:30

Matrix: Water

Date Received: 12/17/18 08:12

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	490		2.0	0.98	ug/L		12/18/18 14:00	12/19/18 16:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.40		0.20	0.030	mg/L			12/17/18 09:45	10
Total Dissolved Solids	1400	H	40	31	mg/L			12/24/18 10:07	1
Total Suspended Solids	3.0	J H	4.0	2.2	mg/L			12/24/18 10:55	1
pH	12.2	HF	0.1	0.1	SU			12/17/18 16:51	1

TestAmerica Canton

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

Client Sample ID: ISWP004 (GC04D)

Lab Sample ID: 240-105872-6

Date Collected: 12/16/18 12:40

Matrix: Water

Date Received: 12/17/18 08:12

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	440		2.0	0.98	ug/L		12/18/18 14:00	12/19/18 17:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.0030		0.020	0.0030	mg/L			12/17/18 10:02	1
Total Dissolved Solids	720	H	10	7.8	mg/L			12/24/18 10:07	1
Total Suspended Solids	<2.2	H	4.0	2.2	mg/L			12/24/18 10:55	1
pH	11.3	HF	0.1	0.1	SU			12/17/18 16:54	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

Client Sample ID: ISWP005 (GC05D)

Lab Sample ID: 240-105872-7

Date Collected: 12/16/18 12:45

Matrix: Water

Date Received: 12/17/18 08:12

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	290		2.0	0.98	ug/L		12/18/18 14:00	12/19/18 17:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.0030		0.020	0.0030	mg/L			12/17/18 10:01	1
Total Dissolved Solids	570	H	10	7.8	mg/L			12/24/18 10:07	1
Total Suspended Solids	3.0	J H	4.0	2.2	mg/L			12/24/18 10:55	1
pH	8.8	HF	0.1	0.1	SU			12/17/18 16:56	1

TestAmerica Canton

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

Client Sample ID: ISWP006 (GC06D)

Lab Sample ID: 240-105872-8

Date Collected: 12/16/18 13:00

Matrix: Water

Date Received: 12/17/18 08:12

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	28		2.0	0.98	ug/L		12/18/18 14:00	12/19/18 16:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.029		0.020	0.0030	mg/L			12/17/18 09:41	1
Total Dissolved Solids	200	H	10	7.8	mg/L			12/24/18 10:07	1
Total Suspended Solids	<8.9	H	16	8.9	mg/L			12/24/18 10:55	1
pH	8.1	HF	0.1	0.1	SU			12/17/18 17:02	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

Client Sample ID: ISWP007 (GC09D)

Lab Sample ID: 240-105872-9

Date Collected: 12/16/18 13:20

Matrix: Water

Date Received: 12/17/18 08:12

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	210		2.0	0.98	ug/L		12/18/18 14:00	12/19/18 17:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.0030		0.020	0.0030	mg/L			12/17/18 10:04	1
Total Dissolved Solids	280	H	10	7.8	mg/L			12/24/18 10:07	1
Total Suspended Solids	8.0	H	4.0	2.2	mg/L			12/24/18 10:55	1
pH	8.4	HF	0.1	0.1	SU			12/17/18 17:04	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

Client Sample ID: ISWP008 (GC10D)

Lab Sample ID: 240-105872-10

Date Collected: 12/16/18 13:35

Matrix: Water

Date Received: 12/17/18 08:12

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	1200		2.0	0.98	ug/L		12/18/18 14:00	12/19/18 17:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.0030		0.020	0.0030	mg/L			12/17/18 10:06	1
Total Dissolved Solids	200	H	10	7.8	mg/L			12/24/18 10:07	1
Total Suspended Solids	<2.2	H	4.0	2.2	mg/L			12/24/18 10:55	1
pH	7.9	HF	0.1	0.1	SU			12/17/18 17:07	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

Client Sample ID: ISWP009 (GC11D)

Lab Sample ID: 240-105872-11

Date Collected: 12/16/18 13:45

Matrix: Water

Date Received: 12/17/18 08:12

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	300		2.0	0.98	ug/L		12/18/18 14:00	12/19/18 17:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.0030		0.020	0.0030	mg/L			12/17/18 10:05	1
Total Dissolved Solids	420	H	20	16	mg/L			12/24/18 10:07	1
Total Suspended Solids	17	H	4.0	2.2	mg/L			12/24/18 10:55	1
pH	11.9	HF	0.1	0.1	SU			12/17/18 17:10	1

Client Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

Client Sample ID: US01

Date Collected: 12/16/18 14:05

Date Received: 12/17/18 08:12

Lab Sample ID: 240-105872-12

Matrix: Water

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	8.3		2.0	0.98	ug/L		12/18/18 14:00	12/19/18 17:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.0030		0.020	0.0030	mg/L			12/17/18 10:02	1
Total Dissolved Solids	240	H	10	7.8	mg/L			12/24/18 10:07	1
Total Suspended Solids	280	H	4.0	2.2	mg/L			12/24/18 10:55	1
pH	8.2	HF	0.1	0.1	SU			12/17/18 17:18	1

TestAmerica Canton

QC Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 240-360548/1-A
Matrix: Water
Analysis Batch: 360973

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 360548

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.98		2.0	0.98	ug/L	-	12/18/18 14:00	12/19/18 15:36	1

Lab Sample ID: LCS 240-360548/2-A
Matrix: Water
Analysis Batch: 360973

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 360548

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	1000	922		ug/L	-	92	85 - 115

Lab Sample ID: 240-105872-8 MS
Matrix: Water
Analysis Batch: 360973

Client Sample ID: ISWP006 (GC06D)
Prep Type: Total Recoverable
Prep Batch: 360548

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	28		1000	1030		ug/L	-	100	70 - 130

Lab Sample ID: 240-105872-8 MSD
Matrix: Water
Analysis Batch: 360973

Client Sample ID: ISWP006 (GC06D)
Prep Type: Total Recoverable
Prep Batch: 360548

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	28		1000	1030		ug/L	-	100	70 - 130	0	20

Method: 3500-Cr B-2009 - Chromium, Hexavalent

Lab Sample ID: MB 240-360317/3
Matrix: Water
Analysis Batch: 360317

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.0030		0.020	0.0030	mg/L	-		12/17/18 09:39	1

Lab Sample ID: LCS 240-360317/4
Matrix: Water
Analysis Batch: 360317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.250	0.268		mg/L	-	107	80 - 123

Lab Sample ID: 240-105872-8 MS
Matrix: Water
Analysis Batch: 360317

Client Sample ID: ISWP006 (GC06D)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.029		0.250	0.298		mg/L	-	107	31 - 151

TestAmerica Canton

QC Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

Method: 3500-Cr B-2009 - Chromium, Hexavalent (Continued)

Lab Sample ID: 240-105872-8 MSD

Matrix: Water

Analysis Batch: 360317

Client Sample ID: ISWP006 (GC06D)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cr (VI)	0.029		0.250	0.257		mg/L		91	31 - 151	15	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 240-361523/1

Matrix: Water

Analysis Batch: 361523

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<7.8		10	7.8	mg/L			12/24/18 10:07	1

Lab Sample ID: LCS 240-361523/2

Matrix: Water

Analysis Batch: 361523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	259	259		mg/L		100	80 - 120

Lab Sample ID: 240-105872-8 DU

Matrix: Water

Analysis Batch: 361523

Client Sample ID: ISWP006 (GC06D)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	Prepared	Analyzed	RPD	RPD Limit
Total Dissolved Solids	200	H	195	H	mg/L				0	20

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 240-361304/1

Matrix: Water

Analysis Batch: 361304

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<2.2		4.0	2.2	mg/L			12/21/18 14:16	1

Lab Sample ID: LCS 240-361304/2

Matrix: Water

Analysis Batch: 361304

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	25.5	18.0		mg/L		71	64 - 120

Lab Sample ID: MB 240-361535/1

Matrix: Water

Analysis Batch: 361535

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<2.2		4.0	2.2	mg/L			12/24/18 10:55	1

TestAmerica Canton

QC Sample Results

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCS 240-361535/2

Matrix: Water

Analysis Batch: 361535

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	25.5	18.0		mg/L		71	64 - 120

Lab Sample ID: 240-105872-8 DU

Matrix: Water

Analysis Batch: 361535

Client Sample ID: ISWP006 (GC06D)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	<8.9	H	<8.9	H	mg/L		NC	10

Lab Sample ID: 240-105872-12 DU

Matrix: Water

Analysis Batch: 361535

Client Sample ID: US01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	280	H	273		mg/L		3	10

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 240-360416/2

Matrix: Water

Analysis Batch: 360416

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	8.46	8.4		SU		99	97 - 103

Lab Sample ID: LCS 240-360416/22

Matrix: Water

Analysis Batch: 360416

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	8.46	8.5		SU		100	97 - 103

Lab Sample ID: 240-105872-8 DU

Matrix: Water

Analysis Batch: 360416

Client Sample ID: ISWP006 (GC06D)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.1	HF	8.2	HF	SU		0.4	20

TestAmerica Canton

QC Association Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

Metals

Prep Batch: 360548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-105872-1	FD	Total Recoverable	Water	200.8	
240-105872-2	DS01	Total Recoverable	Water	200.8	
240-105872-3	ISWP001 (GC01D)	Total Recoverable	Water	200.8	
240-105872-4	ISWP002 (GC02D)	Total Recoverable	Water	200.8	
240-105872-5	ISWP003 (GC03D)	Total Recoverable	Water	200.8	
240-105872-6	ISWP004 (GC04D)	Total Recoverable	Water	200.8	
240-105872-7	ISWP005 (GC05D)	Total Recoverable	Water	200.8	
240-105872-8	ISWP006 (GC06D)	Total Recoverable	Water	200.8	
240-105872-9	ISWP007 (GC09D)	Total Recoverable	Water	200.8	
240-105872-10	ISWP008 (GC10D)	Total Recoverable	Water	200.8	
240-105872-11	ISWP009 (GC11D)	Total Recoverable	Water	200.8	
240-105872-12	US01	Total Recoverable	Water	200.8	
MB 240-360548/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 240-360548/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
240-105872-8 MS	ISWP006 (GC06D)	Total Recoverable	Water	200.8	
240-105872-8 MSD	ISWP006 (GC06D)	Total Recoverable	Water	200.8	

Analysis Batch: 360973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-105872-1	FD	Total Recoverable	Water	200.8	360548
240-105872-2	DS01	Total Recoverable	Water	200.8	360548
240-105872-3	ISWP001 (GC01D)	Total Recoverable	Water	200.8	360548
240-105872-4	ISWP002 (GC02D)	Total Recoverable	Water	200.8	360548
240-105872-5	ISWP003 (GC03D)	Total Recoverable	Water	200.8	360548
240-105872-6	ISWP004 (GC04D)	Total Recoverable	Water	200.8	360548
240-105872-7	ISWP005 (GC05D)	Total Recoverable	Water	200.8	360548
240-105872-8	ISWP006 (GC06D)	Total Recoverable	Water	200.8	360548
240-105872-9	ISWP007 (GC09D)	Total Recoverable	Water	200.8	360548
240-105872-10	ISWP008 (GC10D)	Total Recoverable	Water	200.8	360548
240-105872-11	ISWP009 (GC11D)	Total Recoverable	Water	200.8	360548
240-105872-12	US01	Total Recoverable	Water	200.8	360548
MB 240-360548/1-A	Method Blank	Total Recoverable	Water	200.8	360548
LCS 240-360548/2-A	Lab Control Sample	Total Recoverable	Water	200.8	360548
240-105872-8 MS	ISWP006 (GC06D)	Total Recoverable	Water	200.8	360548
240-105872-8 MSD	ISWP006 (GC06D)	Total Recoverable	Water	200.8	360548

General Chemistry

Analysis Batch: 360317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-105872-1	FD	Total/NA	Water	3500-Cr B-2009	
240-105872-2	DS01	Total/NA	Water	3500-Cr B-2009	
240-105872-3	ISWP001 (GC01D)	Total/NA	Water	3500-Cr B-2009	
240-105872-4	ISWP002 (GC02D)	Total/NA	Water	3500-Cr B-2009	
240-105872-5	ISWP003 (GC03D)	Total/NA	Water	3500-Cr B-2009	
240-105872-6	ISWP004 (GC04D)	Total/NA	Water	3500-Cr B-2009	
240-105872-7	ISWP005 (GC05D)	Total/NA	Water	3500-Cr B-2009	
240-105872-8	ISWP006 (GC06D)	Total/NA	Water	3500-Cr B-2009	
240-105872-9	ISWP007 (GC09D)	Total/NA	Water	3500-Cr B-2009	
240-105872-10	ISWP008 (GC10D)	Total/NA	Water	3500-Cr B-2009	

TestAmerica Canton

QC Association Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

General Chemistry (Continued)

Analysis Batch: 360317 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-105872-11	ISWP009 (GC11D)	Total/NA	Water	3500-Cr B-2009	
240-105872-12	US01	Total/NA	Water	3500-Cr B-2009	
MB 240-360317/3	Method Blank	Total/NA	Water	3500-Cr B-2009	
LCS 240-360317/4	Lab Control Sample	Total/NA	Water	3500-Cr B-2009	
240-105872-8 MS	ISWP006 (GC06D)	Total/NA	Water	3500-Cr B-2009	
240-105872-8 MSD	ISWP006 (GC06D)	Total/NA	Water	3500-Cr B-2009	

Analysis Batch: 360416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-105872-1	FD	Total/NA	Water	SM 4500 H+ B	
240-105872-2	DS01	Total/NA	Water	SM 4500 H+ B	
240-105872-3	ISWP001 (GC01D)	Total/NA	Water	SM 4500 H+ B	
240-105872-4	ISWP002 (GC02D)	Total/NA	Water	SM 4500 H+ B	
240-105872-5	ISWP003 (GC03D)	Total/NA	Water	SM 4500 H+ B	
240-105872-6	ISWP004 (GC04D)	Total/NA	Water	SM 4500 H+ B	
240-105872-7	ISWP005 (GC05D)	Total/NA	Water	SM 4500 H+ B	
240-105872-8	ISWP006 (GC06D)	Total/NA	Water	SM 4500 H+ B	
240-105872-9	ISWP007 (GC09D)	Total/NA	Water	SM 4500 H+ B	
240-105872-10	ISWP008 (GC10D)	Total/NA	Water	SM 4500 H+ B	
240-105872-11	ISWP009 (GC11D)	Total/NA	Water	SM 4500 H+ B	
240-105872-12	US01	Total/NA	Water	SM 4500 H+ B	
LCS 240-360416/2	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCS 240-360416/22	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
240-105872-8 DU	ISWP006 (GC06D)	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 361304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-105872-1	FD	Total/NA	Water	SM 2540D	
MB 240-361304/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 240-361304/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 361523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-105872-1	FD	Total/NA	Water	SM 2540C	
240-105872-2	DS01	Total/NA	Water	SM 2540C	
240-105872-3	ISWP001 (GC01D)	Total/NA	Water	SM 2540C	
240-105872-4	ISWP002 (GC02D)	Total/NA	Water	SM 2540C	
240-105872-5	ISWP003 (GC03D)	Total/NA	Water	SM 2540C	
240-105872-6	ISWP004 (GC04D)	Total/NA	Water	SM 2540C	
240-105872-7	ISWP005 (GC05D)	Total/NA	Water	SM 2540C	
240-105872-8	ISWP006 (GC06D)	Total/NA	Water	SM 2540C	
240-105872-9	ISWP007 (GC09D)	Total/NA	Water	SM 2540C	
240-105872-10	ISWP008 (GC10D)	Total/NA	Water	SM 2540C	
240-105872-11	ISWP009 (GC11D)	Total/NA	Water	SM 2540C	
240-105872-12	US01	Total/NA	Water	SM 2540C	
MB 240-361523/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-361523/2	Lab Control Sample	Total/NA	Water	SM 2540C	
240-105872-8 DU	ISWP006 (GC06D)	Total/NA	Water	SM 2540C	

TestAmerica Canton

QC Association Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

General Chemistry (Continued)

Analysis Batch: 361535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-105872-2	DS01	Total/NA	Water	SM 2540D	
240-105872-3	ISWP001 (GC01D)	Total/NA	Water	SM 2540D	
240-105872-4	ISWP002 (GC02D)	Total/NA	Water	SM 2540D	
240-105872-5	ISWP003 (GC03D)	Total/NA	Water	SM 2540D	
240-105872-6	ISWP004 (GC04D)	Total/NA	Water	SM 2540D	
240-105872-7	ISWP005 (GC05D)	Total/NA	Water	SM 2540D	
240-105872-8	ISWP006 (GC06D)	Total/NA	Water	SM 2540D	
240-105872-9	ISWP007 (GC09D)	Total/NA	Water	SM 2540D	
240-105872-10	ISWP008 (GC10D)	Total/NA	Water	SM 2540D	
240-105872-11	ISWP009 (GC11D)	Total/NA	Water	SM 2540D	
240-105872-12	US01	Total/NA	Water	SM 2540D	
MB 240-361535/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 240-361535/2	Lab Control Sample	Total/NA	Water	SM 2540D	
240-105872-8 DU	ISWP006 (GC06D)	Total/NA	Water	SM 2540D	
240-105872-12 DU	US01	Total/NA	Water	SM 2540D	

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

Client Sample ID: FD

Date Collected: 12/16/18 00:00

Date Received: 12/17/18 08:12

Lab Sample ID: 240-105872-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			360548	12/18/18 14:00	SLD	TAL CAN
Total Recoverable	Analysis	200.8		1	360973	12/19/18 16:31	DSH	TAL CAN
Total/NA	Analysis	3500-Cr B-2009		1	360317	12/17/18 10:03	BLW	TAL CAN
Total/NA	Analysis	SM 2540C		1	361523	12/24/18 10:07	AMT	TAL CAN
Total/NA	Analysis	SM 2540D		1	361304	12/21/18 14:16	AMT	TAL CAN
Total/NA	Analysis	SM 4500 H+ B		1	360416	12/17/18 16:38	MAC	TAL CAN

Client Sample ID: DS01

Date Collected: 12/16/18 11:50

Date Received: 12/17/18 08:12

Lab Sample ID: 240-105872-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			360548	12/18/18 14:00	SLD	TAL CAN
Total Recoverable	Analysis	200.8		1	360973	12/19/18 16:36	DSH	TAL CAN
Total/NA	Analysis	3500-Cr B-2009		1	360317	12/17/18 09:46	BLW	TAL CAN
Total/NA	Analysis	SM 2540C		1	361523	12/24/18 10:07	AMT	TAL CAN
Total/NA	Analysis	SM 2540D		1	361535	12/24/18 10:55	AMT	TAL CAN
Total/NA	Analysis	SM 4500 H+ B		1	360416	12/17/18 16:41	MAC	TAL CAN

Client Sample ID: ISWP001 (GC01D)

Date Collected: 12/16/18 12:10

Date Received: 12/17/18 08:12

Lab Sample ID: 240-105872-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			360548	12/18/18 14:00	SLD	TAL CAN
Total Recoverable	Analysis	200.8		1	360973	12/19/18 16:40	DSH	TAL CAN
Total/NA	Analysis	3500-Cr B-2009		1	360317	12/17/18 09:44	BLW	TAL CAN
Total/NA	Analysis	SM 2540C		1	361523	12/24/18 10:07	AMT	TAL CAN
Total/NA	Analysis	SM 2540D		1	361535	12/24/18 10:55	AMT	TAL CAN
Total/NA	Analysis	SM 4500 H+ B		1	360416	12/17/18 16:43	MAC	TAL CAN

Client Sample ID: ISWP002 (GC02D)

Date Collected: 12/16/18 12:20

Date Received: 12/17/18 08:12

Lab Sample ID: 240-105872-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			360548	12/18/18 14:00	SLD	TAL CAN
Total Recoverable	Analysis	200.8		1	360973	12/19/18 16:45	DSH	TAL CAN
Total/NA	Analysis	3500-Cr B-2009		10	360317	12/17/18 09:47	BLW	TAL CAN
Total/NA	Analysis	SM 2540C		1	361523	12/24/18 10:07	AMT	TAL CAN
Total/NA	Analysis	SM 2540D		1	361535	12/24/18 10:55	AMT	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

Client Sample ID: ISWP002 (GC02D)

Lab Sample ID: 240-105872-4

Date Collected: 12/16/18 12:20

Matrix: Water

Date Received: 12/17/18 08:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 H+ B		1	360416	12/17/18 16:49	MAC	TAL CAN

Client Sample ID: ISWP003 (GC03D)

Lab Sample ID: 240-105872-5

Date Collected: 12/16/18 12:30

Matrix: Water

Date Received: 12/17/18 08:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			360548	12/18/18 14:00	SLD	TAL CAN
Total Recoverable	Analysis	200.8		1	360973	12/19/18 16:59	DSH	TAL CAN
Total/NA	Analysis	3500-Cr B-2009		10	360317	12/17/18 09:45	BLW	TAL CAN
Total/NA	Analysis	SM 2540C		1	361523	12/24/18 10:07	AMT	TAL CAN
Total/NA	Analysis	SM 2540D		1	361535	12/24/18 10:55	AMT	TAL CAN
Total/NA	Analysis	SM 4500 H+ B		1	360416	12/17/18 16:51	MAC	TAL CAN

Client Sample ID: ISWP004 (GC04D)

Lab Sample ID: 240-105872-6

Date Collected: 12/16/18 12:40

Matrix: Water

Date Received: 12/17/18 08:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			360548	12/18/18 14:00	SLD	TAL CAN
Total Recoverable	Analysis	200.8		1	360973	12/19/18 17:03	DSH	TAL CAN
Total/NA	Analysis	3500-Cr B-2009		1	360317	12/17/18 10:02	BLW	TAL CAN
Total/NA	Analysis	SM 2540C		1	361523	12/24/18 10:07	AMT	TAL CAN
Total/NA	Analysis	SM 2540D		1	361535	12/24/18 10:55	AMT	TAL CAN
Total/NA	Analysis	SM 4500 H+ B		1	360416	12/17/18 16:54	MAC	TAL CAN

Client Sample ID: ISWP005 (GC05D)

Lab Sample ID: 240-105872-7

Date Collected: 12/16/18 12:45

Matrix: Water

Date Received: 12/17/18 08:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			360548	12/18/18 14:00	SLD	TAL CAN
Total Recoverable	Analysis	200.8		1	360973	12/19/18 17:08	DSH	TAL CAN
Total/NA	Analysis	3500-Cr B-2009		1	360317	12/17/18 10:01	BLW	TAL CAN
Total/NA	Analysis	SM 2540C		1	361523	12/24/18 10:07	AMT	TAL CAN
Total/NA	Analysis	SM 2540D		1	361535	12/24/18 10:55	AMT	TAL CAN
Total/NA	Analysis	SM 4500 H+ B		1	360416	12/17/18 16:56	MAC	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

Client Sample ID: ISWP006 (GC06D)

Lab Sample ID: 240-105872-8

Date Collected: 12/16/18 13:00

Matrix: Water

Date Received: 12/17/18 08:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			360548	12/18/18 14:00	SLD	TAL CAN
Total Recoverable	Analysis	200.8		1	360973	12/19/18 16:13	DSH	TAL CAN
Total/NA	Analysis	3500-Cr B-2009		1	360317	12/17/18 09:41	BLW	TAL CAN
Total/NA	Analysis	SM 2540C		1	361523	12/24/18 10:07	AMT	TAL CAN
Total/NA	Analysis	SM 2540D		1	361535	12/24/18 10:55	AMT	TAL CAN
Total/NA	Analysis	SM 4500 H+ B		1	360416	12/17/18 17:02	MAC	TAL CAN

Client Sample ID: ISWP007 (GC09D)

Lab Sample ID: 240-105872-9

Date Collected: 12/16/18 13:20

Matrix: Water

Date Received: 12/17/18 08:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			360548	12/18/18 14:00	SLD	TAL CAN
Total Recoverable	Analysis	200.8		1	360973	12/19/18 17:13	DSH	TAL CAN
Total/NA	Analysis	3500-Cr B-2009		1	360317	12/17/18 10:04	BLW	TAL CAN
Total/NA	Analysis	SM 2540C		1	361523	12/24/18 10:07	AMT	TAL CAN
Total/NA	Analysis	SM 2540D		1	361535	12/24/18 10:55	AMT	TAL CAN
Total/NA	Analysis	SM 4500 H+ B		1	360416	12/17/18 17:04	MAC	TAL CAN

Client Sample ID: ISWP008 (GC10D)

Lab Sample ID: 240-105872-10

Date Collected: 12/16/18 13:35

Matrix: Water

Date Received: 12/17/18 08:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			360548	12/18/18 14:00	SLD	TAL CAN
Total Recoverable	Analysis	200.8		1	360973	12/19/18 17:17	DSH	TAL CAN
Total/NA	Analysis	3500-Cr B-2009		1	360317	12/17/18 10:06	BLW	TAL CAN
Total/NA	Analysis	SM 2540C		1	361523	12/24/18 10:07	AMT	TAL CAN
Total/NA	Analysis	SM 2540D		1	361535	12/24/18 10:55	AMT	TAL CAN
Total/NA	Analysis	SM 4500 H+ B		1	360416	12/17/18 17:07	MAC	TAL CAN

Client Sample ID: ISWP009 (GC11D)

Lab Sample ID: 240-105872-11

Date Collected: 12/16/18 13:45

Matrix: Water

Date Received: 12/17/18 08:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			360548	12/18/18 14:00	SLD	TAL CAN
Total Recoverable	Analysis	200.8		1	360973	12/19/18 17:22	DSH	TAL CAN
Total/NA	Analysis	3500-Cr B-2009		1	360317	12/17/18 10:05	BLW	TAL CAN
Total/NA	Analysis	SM 2540C		1	361523	12/24/18 10:07	AMT	TAL CAN
Total/NA	Analysis	SM 2540D		1	361535	12/24/18 10:55	AMT	TAL CAN

TestAmerica Canton

Lab Chronicle

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

Client Sample ID: ISWP009 (GC11D)

Lab Sample ID: 240-105872-11

Date Collected: 12/16/18 13:45

Matrix: Water

Date Received: 12/17/18 08:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 H+ B		1	360416	12/17/18 17:10	MAC	TAL CAN

Client Sample ID: US01

Lab Sample ID: 240-105872-12

Date Collected: 12/16/18 14:05

Matrix: Water

Date Received: 12/17/18 08:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			360548	12/18/18 14:00	SLD	TAL CAN
Total Recoverable	Analysis	200.8		1	360973	12/19/18 17:26	DSH	TAL CAN
Total/NA	Analysis	3500-Cr B-2009		1	360317	12/17/18 10:02	BLW	TAL CAN
Total/NA	Analysis	SM 2540C		1	361523	12/24/18 10:07	AMT	TAL CAN
Total/NA	Analysis	SM 2540D		1	361535	12/24/18 10:55	AMT	TAL CAN
Total/NA	Analysis	SM 4500 H+ B		1	360416	12/17/18 17:18	MAC	TAL CAN

Laboratory References:

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

Accreditation/Certification Summary

Client: Golder Associates Inc.
Project/Site: Satralloy - Industrial SWPPP

TestAmerica Job ID: 240-105872-1

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	12-31-19 *
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	T104704517-18-10	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.

TestAmerica Canton

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Lab PM:		Carrier Tracking No(s):		COC No:					
Dylan Thomas <td colspan="2">Brooks, Kris M. - (330) 966-9790<td colspan="2">Fedex<td colspan="2"></td></td></td>		Brooks, Kris M. - (330) 966-9790 <td colspan="2">Fedex<td colspan="2"></td></td>		Fedex <td colspan="2"></td>							
Bob Ireson <td colspan="2">E-Mail: kris.brooks@testamericainc.com<td colspan="2"></td><td colspan="2">Page:</td></td>		E-Mail: kris.brooks@testamericainc.com <td colspan="2"></td> <td colspan="2">Page:</td>				Page:					
Company: Golder Associates Inc. <td colspan="2">Phone: 614-486-1700<td colspan="2"></td><td colspan="2">Job #:</td></td>		Phone: 614-486-1700 <td colspan="2"></td> <td colspan="2">Job #:</td>				Job #:					
Address: 1335 Dublin Road, Suite 126-D <td colspan="2">Due Date Requested:<td colspan="2">Analysis Requested<td colspan="2">Preservation Codes:</td></td></td>		Due Date Requested: <td colspan="2">Analysis Requested<td colspan="2">Preservation Codes:</td></td>		Analysis Requested <td colspan="2">Preservation Codes:</td>		Preservation Codes:					
City: Columbus <td colspan="2">TAT Requested (days):<td colspan="2"><td colspan="2">A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Ascorbic Acid H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:</td></td></td>		TAT Requested (days): <td colspan="2"><td colspan="2">A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Ascorbic Acid H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:</td></td>		<td colspan="2">A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Ascorbic Acid H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:</td>		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Ascorbic Acid H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:					
State, Zip: OH, 43215 <td colspan="2">PO #:<td colspan="2"><td colspan="2">M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)</td></td></td>		PO #: <td colspan="2"><td colspan="2">M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)</td></td>		<td colspan="2">M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)</td>		M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)					
Phone: 614-486-1700 <td colspan="2">Purchase Order not required<td colspan="2"><td colspan="2"></td></td></td>		Purchase Order not required <td colspan="2"><td colspan="2"></td></td>		<td colspan="2"></td>							
Email: bob.ireson@golder.com <td colspan="2">WO #:<td colspan="2"><td colspan="2"></td></td></td>		WO #: <td colspan="2"><td colspan="2"></td></td>		<td colspan="2"></td>							
Project Name: Industrial SWPPP <td colspan="2">Project #:<td colspan="2"><td colspan="2"></td></td></td>		Project #: <td colspan="2"><td colspan="2"></td></td>		<td colspan="2"></td>							
Site: Sattalloy <td colspan="2">SSOW#:<td colspan="2"><td colspan="2"></td></td></td>		SSOW#: <td colspan="2"><td colspan="2"></td></td>		<td colspan="2"></td>							
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=Water, S=Soil, O=Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Suspended Solids (TSS)	Hexavalent Chromium	Total Chromium	Total Dissolved Solids (TDS)	Special Instructions/Note:
FD	12/10/18		G	W	N	N	N	N	N	N	SHORT HOLD TIME ON HEX Cr
DS01	12/10/18	1150	G	W	N	N	N	N	N	N	SHORT HOLD TIME ON HEX Cr
ISWP-001 (GC-01D)	12/10/18	1240	G	W	N	N	N	N	N	N	SHORT HOLD TIME ON HEX Cr
ISWP-002 (GC-02D)	12/10/18	1220	G	W	N	N	N	N	N	N	SHORT HOLD TIME ON HEX Cr
ISWP-003 (GC-03D)	12/10/18	1230	G	W	N	N	N	N	N	N	SHORT HOLD TIME ON HEX Cr
ISWP-004 (GC-04D)	12/10/18	1240	G	W	N	N	N	N	N	N	SHORT HOLD TIME ON HEX Cr
ISWP-005 (GC-05D)	12/10/18	1245	G	W	N	N	N	N	N	N	SHORT HOLD TIME ON HEX Cr
ISWP-006 (GC-06D)	12/10/18	1300	G	W	N	N	N	N	N	N	SHORT HOLD TIME ON HEX Cr
ISWP-007 (GC-09D)	12/10/18	1320	G	W	N	N	N	N	N	N	SHORT HOLD TIME ON HEX Cr
ISWP-008 (GC-10D)	12/10/18	1335	G	W	N	N	N	N	N	N	SHORT HOLD TIME ON HEX Cr
ISWP-009 (GC-11D)	12/10/18	1345	G	W	N	N	N	N	N	N	SHORT HOLD TIME ON HEX Cr
ISWP-010 (GC-12D)	12/10/18		G	W	N	N	N	N	N	N	SHORT HOLD TIME ON HEX Cr
ISWP-011 (SC-04D)	12/10/18		G	W	N	N	N	N	N	N	SHORT HOLD TIME ON HEX Cr
ISWP-012 (SC-02D)	12/10/18		G	W	N	N	N	N	N	N	SHORT HOLD TIME ON HEX Cr
US01	12/10/18	1405	G	W	N	N	N	N	N	N	SHORT HOLD TIME ON HEX Cr
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)											
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months											
Special Instructions/QC Requirements:											
Empty Kit Relinquished by: _____ Date: _____											
Relinquished by: Dylan Thomas Date: 12/11/18 Company: TAC											
Relinquished by: _____ Date: _____ Company: _____											
Relinquished by: _____ Date: _____ Company: _____											
Custody Seals Intact: ☐ Yes ☐ No											
Custody Seal No.: _____											
Cooler Temperature(s) °C and Other Remarks: _____											

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 105872

Client Golder Site Name _____ Cooler unpacked by: DD
 Cooler Received on 12/17/18 Opened on 12/17/18
 FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

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

TestAmerica Cooler # FA 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 -0.2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN #36 (CF +0.0 °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 ☒ NA
 -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 ☒ NA
 -Were tamper/custody seals intact and uncompromised? Yes ☒ No ☒ NA
3. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☒ NA
4. Did custody papers accompany the sample(s)? Yes ☒ No ☒ NA
5. Were the custody papers relinquished & signed in the appropriate place? Yes ☒ No ☒ NA
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes ☒ No ☒ NA
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☒ NA
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☒ NA
9. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☒ NA
10. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☒ NA
11. Are these work share samples? Yes ☒ No ☒ NA
 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# HC854592
13. Were VOAs on the COC? Yes ☒ No ☒ NA
14. Were air bubbles >6 mm in any VOA vials? ☒ Yes ☒ No ☒ NA Larger than this.
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes ☒ No ☒ NA
16. Was a LL Hg or Me Hg trip blank present? Yes ☒ No ☒ NA

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: DD

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): _____

[illegible]

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Preservative</u> <u>Added (mls)</u>	<u>Lot #</u>
FD	240-105872-A-1	Plastic 250ml - with Nitric Acid	<2	_____	_____
DS01	240-105872-A-2	Plastic 250ml - with Nitric Acid	<2	_____	_____
ISWP001 (GC01D)	240-105872-A-3	Plastic 250ml - with Nitric Acid	<2	_____	_____
ISWP002 (GC02D)	240-105872-A-4	Plastic 250ml - with Nitric Acid	<2	_____	_____
ISWP003 (GC03D)	240-105872-A-5	Plastic 250ml - with Nitric Acid	<2	_____	_____
ISWP004 (GC04D)	240-105872-A-6	Plastic 250ml - with Nitric Acid	<2	_____	_____
ISWP005 (GC05D)	240-105872-A-7	Plastic 250ml - with Nitric Acid	<2	_____	_____
ISWP006 (GC06D)	240-105872-A-8	Plastic 250ml - with Nitric Acid	<2	_____	_____
ISWP006 (GC06D)	240-105872-B-8	Plastic 250ml - with Nitric Acid	<2	_____	_____
ISWP006 (GC06D)	240-105872-C-8	Plastic 250ml - with Nitric Acid	<2	_____	_____
ISWP007 (GC09D)	240-105872-A-9	Plastic 250ml - with Nitric Acid	<2	_____	_____
ISWP008 (GC10D)	240-105872-A-10	Plastic 250ml - with Nitric Acid	<2	_____	_____
ISWP009 (GC11D)	240-105872-A-11	Plastic 250ml - with Nitric Acid	<2	_____	_____
US01	240-105872-A-12	Plastic 250ml - with Nitric Acid	<2	_____	_____