

## ANALYTICAL REPORT

Eurofins TestAmerica, Canton  
4101 Shuffel Street NW  
North Canton, OH 44720  
Tel: (330)497-9396

Laboratory Job ID: 240-161078-1

Client Project/Site: Former Satralloy Site - CSWP

For:

Golder Associates Inc.  
1335 Dublin Road  
Suite 126-D  
Columbus, Ohio 43215

Attn: Mr. Bob Ireson



Authorized for release by:  
12/14/2021 7:33:04 PM

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*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: Former Satralloy Site - CSWP

Job ID: 240-161078-1

### Qualifiers

#### Metals

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

#### General Chemistry

| Qualifier | Qualifier Description                                                                                |
|-----------|------------------------------------------------------------------------------------------------------|
| H         | Sample was prepped or analyzed beyond the specified holding time                                     |
| H3        | Sample was received and analyzed past holding time.                                                  |
| HF        | Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. |

### 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                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| 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)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| MQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| 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)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |

# Case Narrative

Client: Golder Associates Inc.  
Project/Site: Former Satralloy Site - CSWP

Job ID: 240-161078-1

**Job ID: 240-161078-1**

**Laboratory: Eurofins TestAmerica, Canton**

## Narrative

### Job Narrative 240-161078-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 12/7/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 5.0° C and 10.8° C.

#### Metals

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

#### General Chemistry

Method SM 2540D: Constant weight was not achieved after 3 drying cycles for the following samples: SW-11 (240-161078-4) and SW-12 (240-161078-5).

Method SM 3500 CR B: The following sample was received outside of holding time: FD-01 (240-161078-1).

Method SM 4500 H+ B: The pH for the following samples were outside the instrument calibration range of 2 to 12: (240-161077-B-1) and (240-161077-B-1 DU).

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: Former Satralloy Site - CSWP

Job ID: 240-161078-1

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

## Sample Summary

Client: Golder Associates Inc.  
Project/Site: Former Satralloy Site - CSWP

Job ID: 240-161078-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 240-161078-1  | FD-01            | Water  | 12/06/21 00:00 | 12/07/21 08:33 |
| 240-161078-2  | US-01            | Water  | 12/06/21 12:12 | 12/07/21 08:33 |
| 240-161078-3  | DS-01            | Water  | 12/06/21 13:00 | 12/07/21 08:33 |
| 240-161078-4  | SW-11            | Water  | 12/06/21 11:00 | 12/07/21 08:33 |
| 240-161078-5  | SW-12            | Water  | 12/06/21 10:50 | 12/07/21 08:33 |

# Detection Summary

Client: Golder Associates Inc.  
Project/Site: Former Satralloy Site - CSWP

Job ID: 240-161078-1

## Client Sample ID: FD-01

## Lab Sample ID: 240-161078-1

| Analyte                | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method       | Prep Type |
|------------------------|--------|-----------|-----|-----|------|---------|---|--------------|-----------|
| Total Dissolved Solids | 780    |           | 10  | 7.8 | mg/L | 1       |   | SM 2540C     | Total/NA  |
| pH                     | 8.5    | HF        | 0.1 | 0.1 | SU   | 1       |   | SM 4500 H+ B | Total/NA  |

## Client Sample ID: US-01

## Lab Sample ID: 240-161078-2

| Analyte                | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method       | Prep Type |
|------------------------|--------|-----------|-----|-----|------|---------|---|--------------|-----------|
| Total Dissolved Solids | 830    |           | 10  | 7.8 | mg/L | 1       |   | SM 2540C     | Total/NA  |
| pH                     | 8.5    | HF        | 0.1 | 0.1 | SU   | 1       |   | SM 4500 H+ B | Total/NA  |

## Client Sample ID: DS-01

## Lab Sample ID: 240-161078-3

| Analyte                | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method       | Prep Type         |
|------------------------|--------|-----------|-----|-----|------|---------|---|--------------|-------------------|
| Chromium               | 4.9    | J         | 5.0 | 2.5 | ug/L | 1       |   | 200.8        | Total Recoverable |
| Total Dissolved Solids | 840    |           | 10  | 7.8 | mg/L | 1       |   | SM 2540C     | Total/NA          |
| Total Suspended Solids | 6.0    |           | 4.0 | 1.0 | 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: SW-11

## Lab Sample ID: 240-161078-4

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | Dil Fac | D | Method         | Prep Type         |
|------------------------|--------|-----------|-------|--------|------|---------|---|----------------|-------------------|
| Chromium               | 1400   |           | 5.0   | 2.5    | ug/L | 1       |   | 200.8          | Total Recoverable |
| Cr (VI)                | 0.033  |           | 0.020 | 0.0070 | mg/L | 1       |   | 3500-Cr B-2009 | Total/NA          |
| Total Dissolved Solids | 320    |           | 10    | 7.8    | mg/L | 1       |   | SM 2540C       | Total/NA          |
| Total Suspended Solids | 1800   |           | 4.0   | 1.0    | 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: SW-12

## Lab Sample ID: 240-161078-5

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | Dil Fac | D | Method         | Prep Type         |
|------------------------|--------|-----------|-------|--------|------|---------|---|----------------|-------------------|
| Chromium               | 730    |           | 5.0   | 2.5    | ug/L | 1       |   | 200.8          | Total Recoverable |
| Cr (VI)                | 0.024  |           | 0.020 | 0.0070 | mg/L | 1       |   | 3500-Cr B-2009 | Total/NA          |
| Total Dissolved Solids | 290    |           | 10    | 7.8    | mg/L | 1       |   | SM 2540C       | Total/NA          |
| Total Suspended Solids | 920    |           | 4.0   | 1.0    | mg/L | 1       |   | SM 2540D       | Total/NA          |
| pH                     | 9.1    | HF        | 0.1   | 0.1    | SU   | 1       |   | SM 4500 H+ B   | Total/NA          |

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: Golder Associates Inc.  
Project/Site: Former Satralloy Site - CSWP

Job ID: 240-161078-1

**Client Sample ID: FD-01**

**Date Collected: 12/06/21 00:00**

**Date Received: 12/07/21 08:33**

**Lab Sample ID: 240-161078-1**

**Matrix: Water**

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

| Analyte  | Result | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Chromium | <2.5   |           | 5.0 | 2.5 | ug/L |   | 12/08/21 14:00 | 12/09/21 13:52 | 1       |

## General Chemistry

| Analyte                       | Result     | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|------------|-----------|-------|--------|------|---|----------|----------------|---------|
| Cr (VI)                       | <0.0070    | H H3      | 0.020 | 0.0070 | mg/L |   |          | 12/07/21 08:47 | 1       |
| <b>Total Dissolved Solids</b> | <b>780</b> |           | 10    | 7.8    | mg/L |   |          | 12/09/21 08:32 | 1       |
| Total Suspended Solids        | <1.0       |           | 4.0   | 1.0    | mg/L |   |          | 12/07/21 09:59 | 1       |
| <b>pH</b>                     | <b>8.5</b> | <b>HF</b> | 0.1   | 0.1    | SU   |   |          | 12/07/21 22:49 | 1       |

# Client Sample Results

Client: Golder Associates Inc.  
Project/Site: Former Satralloy Site - CSWP

Job ID: 240-161078-1

**Client Sample ID: US-01**

**Date Collected: 12/06/21 12:12**

**Date Received: 12/07/21 08:33**

**Lab Sample ID: 240-161078-2**

**Matrix: Water**

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

| Analyte  | Result | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Chromium | <2.5   |           | 5.0 | 2.5 | ug/L |   | 12/08/21 14:00 | 12/09/21 13:59 | 1       |

## General Chemistry

| Analyte                       | Result     | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------------|------------|-----------|-------|--------|------|---|----------|----------------|---------|
| Cr (VI)                       | <0.0070    |           | 0.020 | 0.0070 | mg/L |   |          | 12/07/21 08:47 | 1       |
| <b>Total Dissolved Solids</b> | <b>830</b> |           | 10    | 7.8    | mg/L |   |          | 12/09/21 08:32 | 1       |
| Total Suspended Solids        | <1.0       |           | 4.0   | 1.0    | mg/L |   |          | 12/07/21 09:59 | 1       |
| <b>pH</b>                     | <b>8.5</b> | <b>HF</b> | 0.1   | 0.1    | SU   |   |          | 12/07/21 22:51 | 1       |

# Client Sample Results

Client: Golder Associates Inc.  
Project/Site: Former Satralloy Site - CSWP

Job ID: 240-161078-1

**Client Sample ID: DS-01**

**Date Collected: 12/06/21 13:00**

**Date Received: 12/07/21 08:33**

**Lab Sample ID: 240-161078-3**

**Matrix: Water**

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

| Analyte  | Result | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Chromium | 4.9    | J         | 5.0 | 2.5 | ug/L |   | 12/08/21 14:00 | 12/09/21 14:02 | 1       |

## General Chemistry

| Analyte                | Result  | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|---------|-----------|-------|--------|------|---|----------|----------------|---------|
| Cr (VI)                | <0.0070 |           | 0.020 | 0.0070 | mg/L |   |          | 12/07/21 08:47 | 1       |
| Total Dissolved Solids | 840     |           | 10    | 7.8    | mg/L |   |          | 12/09/21 08:32 | 1       |
| Total Suspended Solids | 6.0     |           | 4.0   | 1.0    | mg/L |   |          | 12/07/21 09:59 | 1       |
| pH                     | 8.4     | HF        | 0.1   | 0.1    | SU   |   |          | 12/07/21 22:56 | 1       |

# Client Sample Results

Client: Golder Associates Inc.  
Project/Site: Former Satralloy Site - CSWP

Job ID: 240-161078-1

**Client Sample ID: SW-11**

**Lab Sample ID: 240-161078-4**

**Date Collected: 12/06/21 11:00**

**Matrix: Water**

**Date Received: 12/07/21 08:33**

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

| Analyte  | Result | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Chromium | 1400   |           | 5.0 | 2.5 | ug/L |   | 12/08/21 14:00 | 12/09/21 14:04 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Cr (VI)                | 0.033  |           | 0.020 | 0.0070 | mg/L |   |          | 12/07/21 08:47 | 1       |
| Total Dissolved Solids | 320    |           | 10    | 7.8    | mg/L |   |          | 12/09/21 08:32 | 1       |
| Total Suspended Solids | 1800   |           | 4.0   | 1.0    | mg/L |   |          | 12/09/21 13:08 | 1       |
| pH                     | 8.4    | HF        | 0.1   | 0.1    | SU   |   |          | 12/07/21 22:58 | 1       |

# Client Sample Results

Client: Golder Associates Inc.  
Project/Site: Former Satralloy Site - CSWP

Job ID: 240-161078-1

**Client Sample ID: SW-12**

**Date Collected: 12/06/21 10:50**

**Date Received: 12/07/21 08:33**

**Lab Sample ID: 240-161078-5**

**Matrix: Water**

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

| Analyte  | Result | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Chromium | 730    |           | 5.0 | 2.5 | ug/L |   | 12/08/21 14:00 | 12/09/21 14:07 | 1       |

## General Chemistry

| Analyte                | Result | Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|--------|-----------|-------|--------|------|---|----------|----------------|---------|
| Cr (VI)                | 0.024  |           | 0.020 | 0.0070 | mg/L |   |          | 12/07/21 08:47 | 1       |
| Total Dissolved Solids | 290    |           | 10    | 7.8    | mg/L |   |          | 12/09/21 08:32 | 1       |
| Total Suspended Solids | 920    |           | 4.0   | 1.0    | mg/L |   |          | 12/09/21 13:08 | 1       |
| pH                     | 9.1    | HF        | 0.1   | 0.1    | SU   |   |          | 12/07/21 23:00 | 1       |

# QC Sample Results

Client: Golder Associates Inc.  
Project/Site: Former Satralloy Site - CSWP

Job ID: 240-161078-1

## Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 240-516070/1-A  
Matrix: Water  
Analysis Batch: 516264

Client Sample ID: Method Blank  
Prep Type: Total Recoverable  
Prep Batch: 516070

| Analyte  | MB Result | MB Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|-----|-----|------|---|----------------|----------------|---------|
| Chromium | <2.5      |              | 5.0 | 2.5 | ug/L |   | 12/08/21 14:00 | 12/09/21 13:03 | 1       |

Lab Sample ID: LCS 240-516070/2-A  
Matrix: Water  
Analysis Batch: 516264

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 516070

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chromium | 500         | 498        |               | ug/L |   | 100  | 85 - 115     |

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

Lab Sample ID: MB 240-515824/3  
Matrix: Water  
Analysis Batch: 515824

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

| Analyte | MB Result | MB Qualifier | RL    | MDL    | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|-----------|--------------|-------|--------|------|---|----------|----------------|---------|
| Cr (VI) | <0.0070   |              | 0.020 | 0.0070 | mg/L |   |          | 12/07/21 08:45 | 1       |

Lab Sample ID: LCS 240-515824/4  
Matrix: Water  
Analysis Batch: 515824

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       | 0.255      |               | mg/L |   | 102  | 80 - 123     |

Lab Sample ID: 240-161078-3 MS  
Matrix: Water  
Analysis Batch: 515824

Client Sample ID: DS-01  
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Cr (VI) | <0.0070       |                  | 0.250       | 0.253     |              | mg/L |   | 101  | 31 - 151     |

Lab Sample ID: 240-161078-3 MSD  
Matrix: Water  
Analysis Batch: 515824

Client Sample ID: DS-01  
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) | <0.0070       |                  | 0.250       | 0.256      |               | mg/L |   | 103  | 31 - 151     | 1   | 20        |

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

Lab Sample ID: MB 240-516192/1  
Matrix: Water  
Analysis Batch: 516192

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 |   |          | 12/09/21 08:32 | 1       |

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# QC Sample Results

Client: Golder Associates Inc.  
Project/Site: Former Satralloy Site - CSWP

Job ID: 240-161078-1

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

Lab Sample ID: LCS 240-516192/2

Matrix: Water

Analysis Batch: 516192

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 | 150         | 132        |               | mg/L |   | 88   | 80 - 120     |

Lab Sample ID: 240-161078-2 DU

Matrix: Water

Analysis Batch: 516192

Client Sample ID: US-01

Prep Type: Total/NA

| Analyte                | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 830           |                  | 813       |              | mg/L |   | 2   | 20        |

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

Lab Sample ID: MB 240-515875/1

Matrix: Water

Analysis Batch: 515875

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 | <1.0      |              | 4.0 | 1.0 | mg/L |   |          | 12/07/21 09:59 | 1       |

Lab Sample ID: LCS 240-515875/2

Matrix: Water

Analysis Batch: 515875

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 | 29.0        | 20.0       |               | mg/L |   | 69   | 64 - 120     |

Lab Sample ID: 240-161078-3 DU

Matrix: Water

Analysis Batch: 515875

Client Sample ID: DS-01

Prep Type: Total/NA

| Analyte                | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Suspended Solids | 6.0           |                  | <1.0      |              | mg/L |   | NC  | 10        |

Lab Sample ID: MB 240-516077/1

Matrix: Water

Analysis Batch: 516077

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 | <1.0      |              | 4.0 | 1.0 | mg/L |   |          | 12/08/21 10:37 | 1       |

Lab Sample ID: LCS 240-516077/2

Matrix: Water

Analysis Batch: 516077

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 | 29.0        | 23.0       |               | mg/L |   | 79   | 64 - 120     |

# QC Sample Results

Client: Golder Associates Inc.  
Project/Site: Former Satralloy Site - CSWP

Job ID: 240-161078-1

## Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 240-515963/2

Matrix: Water

Analysis Batch: 515963

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| pH      | 8.47        | 8.4        |               | SU   |   | 100  | 97 - 103     |

Lab Sample ID: 240-161078-3 DU

Matrix: Water

Analysis Batch: 515963

Client Sample ID: DS-01

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| pH      | 8.4           | HF               | 8.4       |              | SU   |   | 0.1 | 20        |

# QC Association Summary

Client: Golder Associates Inc.  
Project/Site: Former Satralloy Site - CSWP

Job ID: 240-161078-1

## Metals

### Prep Batch: 516070

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 240-161078-1       | FD-01              | Total Recoverable | Water  | 200.8  |            |
| 240-161078-2       | US-01              | Total Recoverable | Water  | 200.8  |            |
| 240-161078-3       | DS-01              | Total Recoverable | Water  | 200.8  |            |
| 240-161078-4       | SW-11              | Total Recoverable | Water  | 200.8  |            |
| 240-161078-5       | SW-12              | Total Recoverable | Water  | 200.8  |            |
| MB 240-516070/1-A  | Method Blank       | Total Recoverable | Water  | 200.8  |            |
| LCS 240-516070/2-A | Lab Control Sample | Total Recoverable | Water  | 200.8  |            |

### Analysis Batch: 516264

| Lab Sample ID      | Client Sample ID   | Prep Type         | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 240-161078-1       | FD-01              | Total Recoverable | Water  | 200.8  | 516070     |
| 240-161078-2       | US-01              | Total Recoverable | Water  | 200.8  | 516070     |
| 240-161078-3       | DS-01              | Total Recoverable | Water  | 200.8  | 516070     |
| 240-161078-4       | SW-11              | Total Recoverable | Water  | 200.8  | 516070     |
| 240-161078-5       | SW-12              | Total Recoverable | Water  | 200.8  | 516070     |
| MB 240-516070/1-A  | Method Blank       | Total Recoverable | Water  | 200.8  | 516070     |
| LCS 240-516070/2-A | Lab Control Sample | Total Recoverable | Water  | 200.8  | 516070     |

## General Chemistry

### Analysis Batch: 515824

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method         | Prep Batch |
|------------------|--------------------|-----------|--------|----------------|------------|
| 240-161078-1     | FD-01              | Total/NA  | Water  | 3500-Cr B-2009 |            |
| 240-161078-2     | US-01              | Total/NA  | Water  | 3500-Cr B-2009 |            |
| 240-161078-3     | DS-01              | Total/NA  | Water  | 3500-Cr B-2009 |            |
| 240-161078-4     | SW-11              | Total/NA  | Water  | 3500-Cr B-2009 |            |
| 240-161078-5     | SW-12              | Total/NA  | Water  | 3500-Cr B-2009 |            |
| MB 240-515824/3  | Method Blank       | Total/NA  | Water  | 3500-Cr B-2009 |            |
| LCS 240-515824/4 | Lab Control Sample | Total/NA  | Water  | 3500-Cr B-2009 |            |
| 240-161078-3 MS  | DS-01              | Total/NA  | Water  | 3500-Cr B-2009 |            |
| 240-161078-3 MSD | DS-01              | Total/NA  | Water  | 3500-Cr B-2009 |            |

### Analysis Batch: 515875

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 240-161078-1     | FD-01              | Total/NA  | Water  | SM 2540D |            |
| 240-161078-2     | US-01              | Total/NA  | Water  | SM 2540D |            |
| 240-161078-3     | DS-01              | Total/NA  | Water  | SM 2540D |            |
| MB 240-515875/1  | Method Blank       | Total/NA  | Water  | SM 2540D |            |
| LCS 240-515875/2 | Lab Control Sample | Total/NA  | Water  | SM 2540D |            |
| 240-161078-3 DU  | DS-01              | Total/NA  | Water  | SM 2540D |            |

### Analysis Batch: 515963

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method       | Prep Batch |
|------------------|--------------------|-----------|--------|--------------|------------|
| 240-161078-1     | FD-01              | Total/NA  | Water  | SM 4500 H+ B |            |
| 240-161078-2     | US-01              | Total/NA  | Water  | SM 4500 H+ B |            |
| 240-161078-3     | DS-01              | Total/NA  | Water  | SM 4500 H+ B |            |
| 240-161078-4     | SW-11              | Total/NA  | Water  | SM 4500 H+ B |            |
| 240-161078-5     | SW-12              | Total/NA  | Water  | SM 4500 H+ B |            |
| LCS 240-515963/2 | Lab Control Sample | Total/NA  | Water  | SM 4500 H+ B |            |
| 240-161078-3 DU  | DS-01              | Total/NA  | Water  | SM 4500 H+ B |            |

Eurofins TestAmerica, Canton

## QC Association Summary

Client: Golder Associates Inc.  
Project/Site: Former Satralloy Site - CSWP

Job ID: 240-161078-1

### General Chemistry

#### Analysis Batch: 516077

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 240-161078-4     | SW-11              | Total/NA  | Water  | SM 2540D |            |
| 240-161078-5     | SW-12              | Total/NA  | Water  | SM 2540D |            |
| MB 240-516077/1  | Method Blank       | Total/NA  | Water  | SM 2540D |            |
| LCS 240-516077/2 | Lab Control Sample | Total/NA  | Water  | SM 2540D |            |

#### Analysis Batch: 516192

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 240-161078-1     | FD-01              | Total/NA  | Water  | SM 2540C |            |
| 240-161078-2     | US-01              | Total/NA  | Water  | SM 2540C |            |
| 240-161078-3     | DS-01              | Total/NA  | Water  | SM 2540C |            |
| 240-161078-4     | SW-11              | Total/NA  | Water  | SM 2540C |            |
| 240-161078-5     | SW-12              | Total/NA  | Water  | SM 2540C |            |
| MB 240-516192/1  | Method Blank       | Total/NA  | Water  | SM 2540C |            |
| LCS 240-516192/2 | Lab Control Sample | Total/NA  | Water  | SM 2540C |            |
| 240-161078-2 DU  | US-01              | Total/NA  | Water  | SM 2540C |            |

# Lab Chronicle

Client: Golder Associates Inc.  
Project/Site: Former Satralloy Site - CSWP

Job ID: 240-161078-1

**Client Sample ID: FD-01**

**Date Collected: 12/06/21 00:00**

**Date Received: 12/07/21 08:33**

**Lab Sample ID: 240-161078-1**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.8          |     |                 | 516070       | 12/08/21 14:00       | SHB     | TAL CAN |
| Total Recoverable | Analysis   | 200.8          |     | 1               | 516264       | 12/09/21 13:52       | DSH     | TAL CAN |
| Total/NA          | Analysis   | 3500-Cr B-2009 |     | 1               | 515824       | 12/07/21 08:47       | JMR     | TAL CAN |
| Total/NA          | Analysis   | SM 2540C       |     | 1               | 516192       | 12/09/21 08:32       | KMS     | TAL CAN |
| Total/NA          | Analysis   | SM 2540D       |     | 1               | 515875       | 12/07/21 09:59       | KMS     | TAL CAN |
| Total/NA          | Analysis   | SM 4500 H+ B   |     | 1               | 515963       | 12/07/21 22:49       | AGC     | TAL CAN |

**Client Sample ID: US-01**

**Date Collected: 12/06/21 12:12**

**Date Received: 12/07/21 08:33**

**Lab Sample ID: 240-161078-2**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.8          |     |                 | 516070       | 12/08/21 14:00       | SHB     | TAL CAN |
| Total Recoverable | Analysis   | 200.8          |     | 1               | 516264       | 12/09/21 13:59       | DSH     | TAL CAN |
| Total/NA          | Analysis   | 3500-Cr B-2009 |     | 1               | 515824       | 12/07/21 08:47       | JMR     | TAL CAN |
| Total/NA          | Analysis   | SM 2540C       |     | 1               | 516192       | 12/09/21 08:32       | KMS     | TAL CAN |
| Total/NA          | Analysis   | SM 2540D       |     | 1               | 515875       | 12/07/21 09:59       | KMS     | TAL CAN |
| Total/NA          | Analysis   | SM 4500 H+ B   |     | 1               | 515963       | 12/07/21 22:51       | AGC     | TAL CAN |

**Client Sample ID: DS-01**

**Date Collected: 12/06/21 13:00**

**Date Received: 12/07/21 08:33**

**Lab Sample ID: 240-161078-3**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.8          |     |                 | 516070       | 12/08/21 14:00       | SHB     | TAL CAN |
| Total Recoverable | Analysis   | 200.8          |     | 1               | 516264       | 12/09/21 14:02       | DSH     | TAL CAN |
| Total/NA          | Analysis   | 3500-Cr B-2009 |     | 1               | 515824       | 12/07/21 08:47       | JMR     | TAL CAN |
| Total/NA          | Analysis   | SM 2540C       |     | 1               | 516192       | 12/09/21 08:32       | KMS     | TAL CAN |
| Total/NA          | Analysis   | SM 2540D       |     | 1               | 515875       | 12/07/21 09:59       | KMS     | TAL CAN |
| Total/NA          | Analysis   | SM 4500 H+ B   |     | 1               | 515963       | 12/07/21 22:56       | AGC     | TAL CAN |

**Client Sample ID: SW-11**

**Date Collected: 12/06/21 11:00**

**Date Received: 12/07/21 08:33**

**Lab Sample ID: 240-161078-4**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.8          |     |                 | 516070       | 12/08/21 14:00       | SHB     | TAL CAN |
| Total Recoverable | Analysis   | 200.8          |     | 1               | 516264       | 12/09/21 14:04       | DSH     | TAL CAN |
| Total/NA          | Analysis   | 3500-Cr B-2009 |     | 1               | 515824       | 12/07/21 08:47       | JMR     | TAL CAN |
| Total/NA          | Analysis   | SM 2540C       |     | 1               | 516192       | 12/09/21 08:32       | KMS     | TAL CAN |
| Total/NA          | Analysis   | SM 2540D       |     | 1               | 516077       | 12/09/21 13:08       | KMS     | TAL CAN |
| Total/NA          | Analysis   | SM 4500 H+ B   |     | 1               | 515963       | 12/07/21 22:58       | AGC     | TAL CAN |

Eurofins TestAmerica, Canton

# Lab Chronicle

Client: Golder Associates Inc.  
Project/Site: Former Satralloy Site - CSWP

Job ID: 240-161078-1

**Client Sample ID: SW-12**

**Date Collected: 12/06/21 10:50**

**Date Received: 12/07/21 08:33**

**Lab Sample ID: 240-161078-5**

**Matrix: Water**

| Prep Type         | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-------------------|------------|----------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total Recoverable | Prep       | 200.8          |     |                 | 516070       | 12/08/21 14:00       | SHB     | TAL CAN |
| Total Recoverable | Analysis   | 200.8          |     | 1               | 516264       | 12/09/21 14:07       | DSH     | TAL CAN |
| Total/NA          | Analysis   | 3500-Cr B-2009 |     | 1               | 515824       | 12/07/21 08:47       | JMR     | TAL CAN |
| Total/NA          | Analysis   | SM 2540C       |     | 1               | 516192       | 12/09/21 08:32       | KMS     | TAL CAN |
| Total/NA          | Analysis   | SM 2540D       |     | 1               | 516077       | 12/09/21 13:08       | KMS     | TAL CAN |
| Total/NA          | Analysis   | SM 4500 H+ B   |     | 1               | 515963       | 12/07/21 23:00       | AGC     | TAL CAN |

## Laboratory References:

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

## Accreditation/Certification Summary

Client: Golder Associates Inc.  
Project/Site: Former Satralloy Site - CSWP

Job ID: 240-161078-1

### Laboratory: Eurofins TestAmerica, Canton

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

| Authority             | Program | Identification Number | Expiration Date |
|-----------------------|---------|-----------------------|-----------------|
| California            | State   | 2927                  | 02-23-22        |
| Connecticut           | State   | PH-0590               | 12-31-21        |
| Florida               | NELAP   | E87225                | 06-30-22        |
| Georgia               | State   | 4062                  | 02-23-22        |
| Illinois              | NELAP   | 200004                | 07-31-22        |
| Iowa                  | State   | 421                   | 06-01-23        |
| Kansas                | NELAP   | E-10336               | 04-30-22        |
| Kentucky (UST)        | State   | 112225                | 02-23-22        |
| Kentucky (WW)         | State   | KY98016               | 12-31-21        |
| Minnesota             | NELAP   | OH00048               | 12-31-21        |
| Minnesota (Petrofund) | State   | 3506                  | 08-01-23        |
| New Jersey            | NELAP   | OH001                 | 06-30-22        |
| New York              | NELAP   | 10975                 | 03-31-22        |
| Ohio VAP              | State   | CL0024                | 12-21-23        |
| Oregon                | NELAP   | 4062                  | 02-23-22        |
| Pennsylvania          | NELAP   | 68-00340              | 08-31-22        |
| Texas                 | NELAP   | T104704517-18-10      | 08-31-22        |
| Virginia              | NELAP   | 11570                 | 09-14-22        |
| Washington            | State   | C971                  | 01-12-22        |
| West Virginia DEP     | State   | 210                   | 12-31-21        |

**Eurofins TestAmerica, Canton**  
 4101 Shuffel Street NW  
 North Canton, OH 44720  
 Phone (330) 497-9386 Phone (330) 497-0772



# Chain of Custody Record

|                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                        |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Client Information</b><br>Client Contact: Mr. Bob Ireson<br>Company: Golder Associates Inc.<br>Address: 1335 Dublin Road, Suite 126-D<br>City: Columbus<br>State: OH 43215<br>Phone: [blank]<br>Email: Bob.Ireson@golder.com<br>Project Name: Saltrilloy <del>SWP</del> CSWP<br>Site: [blank]                         |  | <b>Lab PM</b><br>Brooks, Kris M<br>Email: Kris.Brooks@EuroInset.com<br>Phone: 3802096878<br>PWSID: [blank]           |  | <b>Carrier Tracking Note(s)</b><br>State of Origin: [blank]                                                                                                                                                                                                                                                                                                                                                      |  | COC No: 240-87681-33434.1<br>Page 1 of 1<br>Job # [blank]                                                                                                              |  |
| <b>Analysis Requested</b><br>Due Date Requested: [blank]<br>TAT Requested (days): 5<br>Compliance Project: 1 Yes 1 No<br>PO #: 1234567890-21466501<br>WO #: [blank]<br>Project #: 24009044<br>SSOW #: [blank]                                                                                                            |  |                                                                                                                      |  | <b>Preservation Codes</b><br>A - HCL<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaHSO4<br>F - MeOH<br>G - Anchor<br>H - Ascorbic Acid<br>I - Ice<br>J - DI Water<br>K - EDTA<br>L - EDA<br>Other: [blank]<br>M - Hexane<br>N - None<br>O - AsNaO2<br>P - Na2O4S<br>Q - Na2SO3<br>R - Na2S2O3<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MC/AA<br>W - pH 4-5<br>Z - other (specify) |  |                                                                                                                                                                        |  |
| <b>Sample Identification</b><br>Sample ID: FD-01<br>Sample ID: VS-01<br>Sample ID: SW-11<br>Sample ID: DS-01<br>Sample ID: SW-12                                                                                                                                                                                         |  | Sample Date: 12/6/21<br>Sample Date: 12/6/21<br>Sample Date: 12/6/21<br>Sample Date: 12/6/21<br>Sample Date: 12/6/21 |  | Sample Time: -<br>Sample Time: 1210<br>Sample Time: 1100<br>Sample Time: 1300<br>Sample Time: 1050                                                                                                                                                                                                                                                                                                               |  | Matrix: Water<br>Matrix: Water<br>Matrix: Water<br>Matrix: Water<br>Matrix: Water<br>Matrix: Water<br>Matrix: Water<br>Matrix: Water<br>Matrix: Water<br>Matrix: Water |  |
| Field Filtered Sample (Yes or No)                                                                                                                                                                                                                                                                                        |  | Perform MS/MSD (Yes or No)                                                                                           |  | SM4500 Mn+Pb<br>SM4500 Cd+Pb<br>SM4500 TSS, SS, 1500, CH, D-Cr+6                                                                                                                                                                                                                                                                                                                                                 |  | Total Number of Containers: 1                                                                                                                                          |  |
| Special Instructions/Note:<br>SHORT HOLD CV                                                                                                                                                                                                                                                                              |  | Special Instructions/Note:<br>240-161078 Chain of Custody                                                            |  |                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                        |  |
| <b>Possible Hazard Identification</b><br><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological<br>Deliverable Requested I, II, III, IV, Other (specify) |  |                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                        |  |
| <b>Empty Kit Reinquished by</b><br>Reinquished by: [blank] Date: [blank]<br>Reinquished by: [blank] Date: [blank]<br>Reinquished by: [blank] Date: [blank]                                                                                                                                                               |  |                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                        |  |
| <b>Custody Seals Intact:</b><br>1 Yes 1 No                                                                                                                                                                                                                                                                               |  |                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                        |  |
| <b>Custody Seal No.</b><br>1 Yes 1 No                                                                                                                                                                                                                                                                                    |  |                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                        |  |

Ver 01/16/2019

**Rigdon, Jessica M.**

---

**From:** Brammer, Dakota <Dakota\_Brammer@golder.com>  
**Sent:** Monday, December 6, 2021 8:21 PM  
**To:** Brooks, Kris  
**Subject:** Fwd: Samples received today for Satralloy

EXTERNAL EMAIL\*

NOTE: This email chain appears to contain email from outside Golder

---

**From:** Brammer, Dakota <Dakota\_Brammer@golder.com>  
**Sent:** Monday, December 6, 2021, 20:20  
**To:** Brammer, Dakota  
**Subject:** Re: Samples received today for Satralloy

NOTE: This email chain appears to contain email from outside Golder

There should be a total of 5 in the smaller cooler:

FD-01  
US-01  
DS-01  
SW-11  
SW-12

161078

they should each have the CSWP label on them. I'm thinking there might have been an ISWPPP label that accidentally got placed in the wrong cooler.

The larger cooler should have 8 samples with ISWPPP labels:

SC-02  
US-01  
DS-01  
FD-01  
GC-09  
GC-06  
GC-05  
GC-04

161077

|                                                                                                                         |  |                                                              |  |                                                                                             |  |
|-------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------|--|---------------------------------------------------------------------------------------------|--|
| <b>Eurofins TestAmerica Canton Sample Receipt Form/Narrative</b>                                                        |  |                                                              |  | Login # : <u>161078</u>                                                                     |  |
| <b>Canton Facility</b>                                                                                                  |  |                                                              |  |                                                                                             |  |
| Client <u>Golden</u>                                                                                                    |  | Site Name <u>Suttrallay</u>                                  |  | Cooler unpacked by: <u>KMB</u>                                                              |  |
| Cooler Received on <u>12-6-21</u>                                                                                       |  | Opened on <u>12-6-21</u>                                     |  |                                                                                             |  |
| FedEx: 1 <sup>st</sup> Grd Exp                                                                                          |  | UPS FAS Clipper                                              |  | Client Drop Off TestAmerica Courier Other <u>Private Courier</u>                            |  |
| Receipt After-hours: Drop-off Date/Time <u>12-6-21 5:15</u>                                                             |  | Storage Location <u>Walkin cool</u>                          |  |                                                                                             |  |
| TestAmerica Cooler # <u>NA</u>                                                                                          |  | Foam Box                                                     |  | Client Cooler Box Other                                                                     |  |
| Packing material used: Bubble Wrap                                                                                      |  | Foam                                                         |  | <u>Plastic Bag</u> None Other                                                               |  |
| COOLANT: <u>Wet Ice</u>                                                                                                 |  | Blue Ice                                                     |  | Dry Ice Water None                                                                          |  |
| 1. Cooler temperature upon receipt                                                                                      |  | <input checked="" type="checkbox"/> See Multiple Cooler Form |  |                                                                                             |  |
| IR GUN# IR-14 (CF +0.1 °C)                                                                                              |  | Observed Cooler Temp. _____ °C                               |  | Corrected Cooler Temp. _____ °C                                                             |  |
| IR GUN #IR-15 (CF +0.2 °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 <u>No</u>                                                |  | <b>Tests that are not checked for pH by Receiving:</b><br><br>VOAs<br>Oil and Grease<br>TOC |  |
| -Were the seals on the outside of the cooler(s) signed & dated?                                                         |  | Yes <u>No</u> <u>NA</u>                                      |  |                                                                                             |  |
| -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?                                                 |  | Yes <u>No</u>                                                |  |                                                                                             |  |
| -Were tamper/custody seals intact and uncompromised?                                                                    |  | Yes <u>No</u> <u>NA</u>                                      |  |                                                                                             |  |
| 3. Shippers' packing slip attached to the cooler(s)?                                                                    |  | Yes <u>No</u>                                                |  |                                                                                             |  |
| 4. Did custody papers accompany the sample(s)?                                                                          |  | Yes <u>No</u>                                                |  |                                                                                             |  |
| 5. Were the custody papers relinquished & signed in the appropriate place?                                              |  | Yes <u>No</u>                                                |  |                                                                                             |  |
| 6. Was/were the person(s) who collected the samples clearly identified on the COC?                                      |  | Yes <u>No</u>                                                |  |                                                                                             |  |
| 7. Did all bottles arrive in good condition (Unbroken)?                                                                 |  | <u>Yes</u> No                                                |  |                                                                                             |  |
| 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?                                                   |  | Yes <u>No</u>                                                |  |                                                                                             |  |
| 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp(Y/N)? |  | <u>NA</u>                                                    |  |                                                                                             |  |
| 10. Were correct bottle(s) used for the test(s) indicated?                                                              |  | <u>Yes</u> No                                                |  |                                                                                             |  |
| 11. Sufficient quantity received to perform indicated analyses?                                                         |  | <u>Yes</u> No                                                |  |                                                                                             |  |
| 12. Are these work share samples and all listed on the COC?                                                             |  | Yes <u>No</u>                                                |  |                                                                                             |  |
| If yes, Questions 13-17 have been checked at the originating laboratory.                                                |  |                                                              |  |                                                                                             |  |
| 13. Were all preserved sample(s) at the correct pH upon receipt?                                                        |  | Yes No NA                                                    |  | pH Strip Lot# <u>HC157842</u>                                                               |  |
| 14. Were VOAs on the COC?                                                                                               |  | Yes <u>No</u>                                                |  |                                                                                             |  |
| 15. Were air bubbles >6 mm in any VOA vials?  Larger than this.                                                         |  | Yes No <u>NA</u>                                             |  |                                                                                             |  |
| 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____                                               |  | Yes <u>No</u>                                                |  |                                                                                             |  |
| 17. Was a LL Hg or Me Hg trip blank present? _____                                                                      |  | Yes <u>No</u>                                                |  |                                                                                             |  |
| Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____                                                |  |                                                              |  |                                                                                             |  |
| Concerning _____                                                                                                        |  |                                                              |  |                                                                                             |  |

|                                                                                                                                                                                                                                        |  |                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------|
| <b>18. CHAIN OF CUSTODY &amp; SAMPLE DISCREPANCIES</b> <input type="checkbox"/> additional next page                                                                                                                                   |  | Samples processed by: _____ |
| <u>Bottle labels do not match but have the same time &amp; were received bagged together DS-01 vs DS-01 12/6/21 @ 1255</u><br><u>Sample IDs logged per client email</u><br><u>Sample dates/times logged per the containers 12-7-21</u> |  |                             |
| <b>19. SAMPLE CONDITION</b>                                                                                                                                                                                                            |  |                             |
| 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)                                                                                                                                                               |  |                             |
| <b>20. SAMPLE PRESERVATION</b>                                                                                                                                                                                                         |  |                             |
| Sample(s) _____ were further preserved in the laboratory.                                                                                                                                                                              |  |                             |
| Time preserved: _____ Preservative(s) added/Lot number(s): _____                                                                                                                                                                       |  |                             |
| VOA Sample Preservation - Date/Time VOAs Frozen: _____                                                                                                                                                                                 |  |                             |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

| Eurofins TestAmerica Canton Sample Receipt Multiple Cooler Form |        |     |       |                      |       |                     |                      |                     |          |         |
|-----------------------------------------------------------------|--------|-----|-------|----------------------|-------|---------------------|----------------------|---------------------|----------|---------|
| Cooler Description<br>(Circle)                                  |        |     |       | IR Gun #<br>(Circle) |       | Observed<br>Temp °C | Corrected<br>Temp °C | Coolant<br>(Circle) |          |         |
| <u>TA</u>                                                       | Client | Box | Other | <u>IR-14</u>         | IR-15 | 4.9                 | 5.0                  | <u>Wet Ice</u>      | Blue Ice | Dry Ice |
|                                                                 |        |     |       |                      |       |                     |                      | Water               | None     |         |
| <u>TA</u>                                                       | Client | Box | Other | <u>IR-14</u>         | IR-15 | 10.7                | 10.8                 | <u>Wet Ice</u>      | Blue Ice | Dry Ice |
|                                                                 |        |     |       |                      |       |                     |                      | Water               | None     |         |
| TA                                                              | Client | Box | Other | IR-14                | IR-15 |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|                                                                 |        |     |       |                      |       |                     |                      | Water               | None     |         |
| TA                                                              | Client | Box | Other | IR-14                | IR-15 |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|                                                                 |        |     |       |                      |       |                     |                      | Water               | None     |         |
| TA                                                              | Client | Box | Other | IR-14                | IR-15 |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|                                                                 |        |     |       |                      |       |                     |                      | Water               | None     |         |
| TA                                                              | Client | Box | Other | IR-14                | IR-15 |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|                                                                 |        |     |       |                      |       |                     |                      | Water               | None     |         |
| TA                                                              | Client | Box | Other | IR-14                | IR-15 |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|                                                                 |        |     |       |                      |       |                     |                      | Water               | None     |         |
| TA                                                              | Client | Box | Other | IR-14                | IR-15 |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|                                                                 |        |     |       |                      |       |                     |                      | Water               | None     |         |
| TA                                                              | Client | Box | Other | IR-14                | IR-15 |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|                                                                 |        |     |       |                      |       |                     |                      | Water               | None     |         |
| TA                                                              | Client | Box | Other | IR-14                | IR-15 |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|                                                                 |        |     |       |                      |       |                     |                      | Water               | None     |         |
| TA                                                              | Client | Box | Other | IR-14                | IR-15 |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|                                                                 |        |     |       |                      |       |                     |                      | Water               | None     |         |
| TA                                                              | Client | Box | Other | IR-14                | IR-15 |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|                                                                 |        |     |       |                      |       |                     |                      | Water               | None     |         |
| TA                                                              | Client | Box | Other | IR-14                | IR-15 |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|                                                                 |        |     |       |                      |       |                     |                      | Water               | None     |         |
| TA                                                              | Client | Box | Other | IR-14                | IR-15 |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|                                                                 |        |     |       |                      |       |                     |                      | Water               | None     |         |
| TA                                                              | Client | Box | Other | IR-14                | IR-15 |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|                                                                 |        |     |       |                      |       |                     |                      | Water               | None     |         |
| TA                                                              | Client | Box | Other | IR-14                | IR-15 |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|                                                                 |        |     |       |                      |       |                     |                      | Water               | None     |         |
| TA                                                              | Client | Box | Other | IR-14                | IR-15 |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|                                                                 |        |     |       |                      |       |                     |                      | Water               | None     |         |
| TA                                                              | Client | Box | Other | IR-14                | IR-15 |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|                                                                 |        |     |       |                      |       |                     |                      | Water               | None     |         |
| TA                                                              | Client | Box | Other | IR-14                | IR-15 |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|                                                                 |        |     |       |                      |       |                     |                      | Water               | None     |         |
| TA                                                              | Client | Box | Other | IR-14                | IR-15 |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|                                                                 |        |     |       |                      |       |                     |                      | Water               | None     |         |
| TA                                                              | Client | Box | Other | IR-14                | IR-15 |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|                                                                 |        |     |       |                      |       |                     |                      | Water               | None     |         |
| TA                                                              | Client | Box | Other | IR-14                | IR-15 |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|                                                                 |        |     |       |                      |       |                     |                      | Water               | None     |         |
| TA                                                              | Client | Box | Other | IR-14                | IR-15 |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|                                                                 |        |     |       |                      |       |                     |                      | Water               | None     |         |
| TA                                                              | Client | Box | Other | IR-14                | IR-15 |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|                                                                 |        |     |       |                      |       |                     |                      | Water               | None     |         |
| TA                                                              | Client | Box | Other | IR-14                | IR-15 |                     |                      | Wet Ice             | Blue Ice | Dry Ice |
|                                                                 |        |     |       |                      |       |                     |                      | Water               | None     |         |
| TA                                                              | Client | Box | Other |                      |       |                     |                      |                     |          |         |

Temperature readings: \_\_\_\_\_

| <u>Client Sample ID</u> | <u>Lab ID</u>  | <u>Container Type</u>            | <u>Container</u> |       | <u>Preservative</u> |       |
|-------------------------|----------------|----------------------------------|------------------|-------|---------------------|-------|
|                         |                |                                  | pH               | Temp  | Added (mls)         | Lot # |
| FD-01                   | 240-161078-A-1 | Plastic 250ml - with Nitric Acid | <2               | _____ | _____               | _____ |
| US-01                   | 240-161078-A-2 | Plastic 250ml - with Nitric Acid | <2               | _____ | _____               | _____ |
| DS-01                   | 240-161078-A-3 | Plastic 250ml - with Nitric Acid | <2               | _____ | _____               | _____ |
| SW-11                   | 240-161078-A-4 | Plastic 250ml - with Nitric Acid | <2               | _____ | _____               | _____ |
| SW-12                   | 240-161078-A-5 | Plastic 250ml - with Nitric Acid | <2               | _____ | _____               | _____ |