

ANALYTICAL REPORT

PREPARED FOR

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Generated 11/22/2022 9:39:20 AM

JOB DESCRIPTION

ALL4 - US Steel - TO-13A

JOB NUMBER

140-29387-1

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Definitions/Glossary

Client: Enthalpy Analytical LLC
Project/Site: ALL4 - US Steel - TO-13A

Job ID: 140-29387-1

Qualifiers

Air - GC/MS Semi VOA

| Qualifier | Qualifier Description |
|-----------|---|
| D | Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| S1- | Surrogate recovery exceeds control limits, low biased. |

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 |

Method Summary

Client: Enthalpy Analytical LLC
Project/Site: ALL4 - US Steel - TO-13A

Job ID: 140-29387-1

| Method | Method Description | Protocol | Laboratory |
|--------|--|----------|------------|
| TO-13A | PAHs/ Semivolatile Organics in Ambient Air | EPA | EET KNX |
| Split | Split Factor Determination | None | EET KNX |
| TO-13A | Extraction of PAH/Semivolatile Compounds (Ambient Air) | EPA | EET KNX |

Protocol References:

EPA = US Environmental Protection Agency

None = None

Laboratory References:

EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: Enthalpy Analytical LLC
Project/Site: ALL4 - US Steel - TO-13A

Job ID: 140-29387-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 140-29387-1 | PAH01_221025_S | Air | 10/25/22 11:16 | 10/27/22 07:45 |
| 140-29387-2 | PAH02_221025_S | Air | 10/25/22 11:27 | 10/27/22 07:45 |
| 140-29387-3 | PAH03_221025_S | Air | 10/25/22 11:36 | 10/27/22 07:45 |
| 140-29387-4 | PAH04_221025_S | Air | 10/25/22 11:06 | 10/27/22 07:45 |

Case Narrative

Client: Enthalpy Analytical LLC
Project/Site: ALL4 - US Steel - TO-13A

Job ID: 140-29387-1

Job ID: 140-29387-1

Laboratory: Eurofins Knoxville

Narrative

Job Narrative 140-29387-1

Sample Receipt

The samples were received on 10/27/2022 at 07:45 in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.4° C.

Receipt Exceptions

A Chain-of-Custody (COC) was not received with these samples: PAH01_221025_S (140-29387-1), PAH02_221025_S (140-29387-2), PAH03_221025_S (140-29387-3) and PAH04_221025_S (140-29387-4). Using email copy from client.

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): PAH01_221025_S (140-29387-1), PAH02_221025_S (140-29387-2), PAH03_221025_S (140-29387-3) and PAH04_221025_S (140-29387-4). No sample ID's on containers, matched by TO-13 container numbers.

GC/MS Semi-volatiles

Method TO-13A: The field surrogate recovery for the following samples were outside of acceptance limits: PAH02_221025_S (140-29387-2), PAH03_221025_S (140-29387-3) and PAH04_221025_S (140-29387-4). The extraction surrogates were within limits showing the extraction and analysis process was in control. The entire sample was consumed during extraction, therefore, the data have been reported.

Method TO-13A: The following samples were diluted to bring the concentration of target analytes within the calibration range: PAH02_221025_S (140-29387-2), PAH03_221025_S (140-29387-3) and PAH04_221025_S (140-29387-4). Elevated reporting limits (RLs) are provided.

Method TO-13A: The following sample was diluted to bring the concentration of target analytes within the calibration range: PAH01_221025_S (140-29387-1). Elevated reporting limits (RLs) are provided.

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

Client Sample Results

Client: Enthalpy Analytical LLC
Project/Site: ALL4 - US Steel - TO-13A

Job ID: 140-29387-1

Client Sample ID: PAH01_221025_S

Lab Sample ID: 140-29387-1

Date Collected: 10/25/22 11:16

Matrix: Air

Date Received: 10/27/22 07:45

Sample Container: PUF

Method: EPA TO-13A - PAHs/ Semivolatile Organics in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|----------|------|-----------|---|----------------|----------------|---------|
| Acenaphthene | 16.3 | | 10.0 | 3.00 | ug/Sample | | 10/31/22 00:59 | 11/17/22 15:32 | 2 |
| Acenaphthylene | ND | | 10.0 | 3.40 | ug/Sample | | 10/31/22 00:59 | 11/17/22 15:32 | 2 |
| Anthracene | ND | | 10.0 | 2.80 | ug/Sample | | 10/31/22 00:59 | 11/17/22 15:32 | 2 |
| Benzo(a)anthracene | ND | | 10.0 | 2.20 | ug/Sample | | 10/31/22 00:59 | 11/17/22 15:32 | 2 |
| Benzo[a]pyrene | ND | | 10.0 | 4.40 | ug/Sample | | 10/31/22 00:59 | 11/17/22 15:32 | 2 |
| Benzo[b]fluoranthene | ND | | 10.0 | 4.40 | ug/Sample | | 10/31/22 00:59 | 11/17/22 15:32 | 2 |
| Benzo[g,h,i]perylene | ND | | 10.0 | 3.40 | ug/Sample | | 10/31/22 00:59 | 11/17/22 15:32 | 2 |
| Benzo[k]fluoranthene | ND | | 10.0 | 2.60 | ug/Sample | | 10/31/22 00:59 | 11/17/22 15:32 | 2 |
| Chrysene | ND | | 10.0 | 2.60 | ug/Sample | | 10/31/22 00:59 | 11/17/22 15:32 | 2 |
| Dibenz(a,h)anthracene | ND | | 10.0 | 3.40 | ug/Sample | | 10/31/22 00:59 | 11/17/22 15:32 | 2 |
| Fluoranthene | 4.73 | J | 10.0 | 3.00 | ug/Sample | | 10/31/22 00:59 | 11/17/22 15:32 | 2 |
| Fluorene | 10.9 | | 10.0 | 3.00 | ug/Sample | | 10/31/22 00:59 | 11/17/22 15:32 | 2 |
| Indeno[1,2,3-cd]pyrene | ND | | 10.0 | 4.40 | ug/Sample | | 10/31/22 00:59 | 11/17/22 15:32 | 2 |
| Naphthalene | 142 | | 10.0 | 3.20 | ug/Sample | | 10/31/22 00:59 | 11/17/22 15:32 | 2 |
| Phenanthrene | 16.5 | | 10.0 | 2.80 | ug/Sample | | 10/31/22 00:59 | 11/17/22 15:32 | 2 |
| Pyrene | ND | | 10.0 | 3.00 | ug/Sample | | 10/31/22 00:59 | 11/17/22 15:32 | 2 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl (Surr) | 91 | | 51 - 109 | | | | 10/31/22 00:59 | 11/17/22 15:32 | 2 |
| Nitrobenzene-d5 (Surr) | 90 | | 32 - 137 | | | | 10/31/22 00:59 | 11/17/22 15:32 | 2 |
| Terphenyl-d14 (Surr) | 104 | | 65 - 124 | | | | 10/31/22 00:59 | 11/17/22 15:32 | 2 |
| 13C6-Naphthalene | 54 | | 50 - 150 | | | | 10/31/22 00:59 | 11/17/22 15:32 | 2 |

Client Sample Results

Client: Enthalpy Analytical LLC
Project/Site: ALL4 - US Steel - TO-13A

Job ID: 140-29387-1

Client Sample ID: PAH02_221025_S

Lab Sample ID: 140-29387-2

Date Collected: 10/25/22 11:27

Matrix: Air

Date Received: 10/27/22 07:45

Sample Container: PUF

Method: EPA TO-13A - PAHs/ Semivolatile Organics in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|----------|------|-----------|---|----------------|----------------|---------|
| Acenaphthene | ND | | 50.0 | 15.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 12:56 | 10 |
| Acenaphthylene | ND | | 50.0 | 17.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 12:56 | 10 |
| Anthracene | ND | | 50.0 | 14.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 12:56 | 10 |
| Benzo(a)anthracene | ND | | 50.0 | 11.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 12:56 | 10 |
| Benzo[a]pyrene | ND | | 50.0 | 22.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 12:56 | 10 |
| Benzo[b]fluoranthene | ND | | 50.0 | 22.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 12:56 | 10 |
| Benzo[g,h,i]perylene | ND | | 50.0 | 17.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 12:56 | 10 |
| Benzo[k]fluoranthene | ND | | 50.0 | 13.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 12:56 | 10 |
| Chrysene | ND | | 50.0 | 13.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 12:56 | 10 |
| Dibenz(a,h)anthracene | ND | | 50.0 | 17.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 12:56 | 10 |
| Fluoranthene | ND | | 50.0 | 15.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 12:56 | 10 |
| Fluorene | 19.8 | J | 50.0 | 15.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 12:56 | 10 |
| Indeno[1,2,3-cd]pyrene | ND | | 50.0 | 22.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 12:56 | 10 |
| Naphthalene | 1080 | | 50.0 | 16.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 12:56 | 10 |
| Phenanthrene | 34.2 | J | 50.0 | 14.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 12:56 | 10 |
| Pyrene | ND | | 50.0 | 15.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 12:56 | 10 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl (Surr) | 86 | | 51 - 109 | | | | 10/31/22 00:59 | 11/13/22 12:56 | 10 |
| Nitrobenzene-d5 (Surr) | 96 | | 32 - 137 | | | | 10/31/22 00:59 | 11/13/22 12:56 | 10 |
| Terphenyl-d14 (Surr) | 102 | | 65 - 124 | | | | 10/31/22 00:59 | 11/13/22 12:56 | 10 |
| 13C6-Naphthalene | 48 | S1- | 50 - 150 | | | | 10/31/22 00:59 | 11/13/22 12:56 | 10 |

Client Sample Results

Client: Enthalpy Analytical LLC
Project/Site: ALL4 - US Steel - TO-13A

Job ID: 140-29387-1

Client Sample ID: PAH03_221025_S

Lab Sample ID: 140-29387-3

Date Collected: 10/25/22 11:36

Matrix: Air

Date Received: 10/27/22 07:45

Sample Container: PUF

Method: EPA TO-13A - PAHs/ Semivolatile Organics in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|-----------|---|----------------|----------------|---------|
| Acenaphthene | 19.1 | J | 50.0 | 15.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:21 | 10 |
| Acenaphthylene | 87.6 | | 50.0 | 17.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:21 | 10 |
| Anthracene | ND | | 50.0 | 14.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:21 | 10 |
| Benzo(a)anthracene | ND | | 50.0 | 11.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:21 | 10 |
| Benzo[a]pyrene | ND | | 50.0 | 22.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:21 | 10 |
| Benzo[b]fluoranthene | ND | | 50.0 | 22.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:21 | 10 |
| Benzo[g,h,i]perylene | ND | | 50.0 | 17.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:21 | 10 |
| Benzo[k]fluoranthene | ND | | 50.0 | 13.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:21 | 10 |
| Chrysene | ND | | 50.0 | 13.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:21 | 10 |
| Dibenz(a,h)anthracene | ND | | 50.0 | 17.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:21 | 10 |
| Fluoranthene | 32.6 | J | 50.0 | 15.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:21 | 10 |
| Fluorene | 68.0 | | 50.0 | 15.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:21 | 10 |
| Indeno[1,2,3-cd]pyrene | ND | | 50.0 | 22.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:21 | 10 |
| Phenanthrene | 104 | | 50.0 | 14.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:21 | 10 |
| Pyrene | 18.8 | J | 50.0 | 15.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:21 | 10 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 89 | | 51 - 109 | 10/31/22 00:59 | 11/13/22 13:21 | 10 |
| Nitrobenzene-d5 (Surr) | 86 | | 32 - 137 | 10/31/22 00:59 | 11/13/22 13:21 | 10 |
| Terphenyl-d14 (Surr) | 104 | | 65 - 124 | 10/31/22 00:59 | 11/13/22 13:21 | 10 |
| 13C6-Naphthalene | 42 | S1- | 50 - 150 | 10/31/22 00:59 | 11/13/22 13:21 | 10 |

Method: EPA TO-13A - PAHs/ Semivolatile Organics in Ambient Air - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------|-----------|-----|------|-----------|---|----------------|----------------|---------|
| Naphthalene | 4720 | | 250 | 80.0 | ug/Sample | | 10/31/22 00:59 | 11/14/22 14:37 | 50 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 0 | D S1- | 51 - 109 | 10/31/22 00:59 | 11/14/22 14:37 | 50 |
| Nitrobenzene-d5 (Surr) | 0 | D S1- | 32 - 137 | 10/31/22 00:59 | 11/14/22 14:37 | 50 |
| Terphenyl-d14 (Surr) | 0 | D S1- | 65 - 124 | 10/31/22 00:59 | 11/14/22 14:37 | 50 |
| 13C6-Naphthalene | 0 | D S1- | 50 - 150 | 10/31/22 00:59 | 11/14/22 14:37 | 50 |

Client Sample Results

Client: Enthalpy Analytical LLC
Project/Site: ALL4 - US Steel - TO-13A

Job ID: 140-29387-1

Client Sample ID: PAH04_221025_S

Lab Sample ID: 140-29387-4

Date Collected: 10/25/22 11:06

Matrix: Air

Date Received: 10/27/22 07:45

Sample Container: PUF

Method: EPA TO-13A - PAHs/ Semivolatile Organics in Ambient Air

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|-----------|---|----------------|----------------|---------|
| Acenaphthene | 63.8 | | 50.0 | 15.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:44 | 10 |
| Anthracene | 71.4 | | 50.0 | 14.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:44 | 10 |
| Benzo(a)anthracene | ND | | 50.0 | 11.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:44 | 10 |
| Benzo[a]pyrene | ND | | 50.0 | 22.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:44 | 10 |
| Benzo[b]fluoranthene | ND | | 50.0 | 22.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:44 | 10 |
| Benzo[g,h,i]perylene | ND | | 50.0 | 17.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:44 | 10 |
| Benzo[k]fluoranthene | ND | | 50.0 | 13.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:44 | 10 |
| Chrysene | ND | | 50.0 | 13.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:44 | 10 |
| Dibenz(a,h)anthracene | ND | | 50.0 | 17.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:44 | 10 |
| Fluoranthene | 69.4 | | 50.0 | 15.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:44 | 10 |
| Fluorene | 423 | | 50.0 | 15.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:44 | 10 |
| Indeno[1,2,3-cd]pyrene | ND | | 50.0 | 22.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:44 | 10 |
| Phenanthrene | 416 | | 50.0 | 14.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:44 | 10 |
| Pyrene | 39.7 | J | 50.0 | 15.0 | ug/Sample | | 10/31/22 00:59 | 11/13/22 13:44 | 10 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 88 | | 51 - 109 | 10/31/22 00:59 | 11/13/22 13:44 | 10 |
| Nitrobenzene-d5 (Surr) | 91 | | 32 - 137 | 10/31/22 00:59 | 11/13/22 13:44 | 10 |
| Terphenyl-d14 (Surr) | 100 | | 65 - 124 | 10/31/22 00:59 | 11/13/22 13:44 | 10 |
| 13C6-Naphthalene | 48 | S1- | 50 - 150 | 10/31/22 00:59 | 11/13/22 13:44 | 10 |

Method: EPA TO-13A - PAHs/ Semivolatile Organics in Ambient Air - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------|-----------|------|-----|-----------|---|----------------|----------------|---------|
| Acenaphthylene | 1430 | J | 2000 | 680 | ug/Sample | | 10/31/22 00:59 | 11/15/22 16:21 | 400 |
| Naphthalene | 38500 | | 2000 | 640 | ug/Sample | | 10/31/22 00:59 | 11/15/22 16:21 | 400 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 0 | S1- D | 51 - 109 | 10/31/22 00:59 | 11/15/22 16:21 | 400 |
| Nitrobenzene-d5 (Surr) | 0 | S1- D | 32 - 137 | 10/31/22 00:59 | 11/15/22 16:21 | 400 |
| Terphenyl-d14 (Surr) | 0 | S1- D | 65 - 124 | 10/31/22 00:59 | 11/15/22 16:21 | 400 |
| 13C6-Naphthalene | 0 | S1- D | 50 - 150 | 10/31/22 00:59 | 11/15/22 16:21 | 400 |

Default Detection Limits

Client: Enthalpy Analytical LLC
Project/Site: ALL4 - US Steel - TO-13A

Job ID: 140-29387-1

Method: TO-13A - PAHs/ Semivolatile Organics in Ambient Air

Prep: TO-13A

| Analyte | RL | MDL | Units |
|------------------------|------|------|-----------|
| Acenaphthene | 5.00 | 1.50 | ug/Sample |
| Acenaphthylene | 5.00 | 1.70 | ug/Sample |
| Anthracene | 5.00 | 1.40 | ug/Sample |
| Benzo(a)anthracene | 5.00 | 1.10 | ug/Sample |
| Benzo[a]pyrene | 5.00 | 2.20 | ug/Sample |
| Benzo[b]fluoranthene | 5.00 | 2.20 | ug/Sample |
| Benzo[g,h,i]perylene | 5.00 | 1.70 | ug/Sample |
| Benzo[k]fluoranthene | 5.00 | 1.30 | ug/Sample |
| Chrysene | 5.00 | 1.30 | ug/Sample |
| Dibenz(a,h)anthracene | 5.00 | 1.70 | ug/Sample |
| Fluoranthene | 5.00 | 1.50 | ug/Sample |
| Fluorene | 5.00 | 1.50 | ug/Sample |
| Indeno[1,2,3-cd]pyrene | 5.00 | 2.20 | ug/Sample |
| Naphthalene | 5.00 | 1.60 | ug/Sample |
| Phenanthrene | 5.00 | 1.40 | ug/Sample |
| Pyrene | 5.00 | 1.50 | ug/Sample |

Surrogate Summary

Client: Enthalpy Analytical LLC
Project/Site: ALL4 - US Steel - TO-13A

Job ID: 140-29387-1

Method: TO-13A - PAHs/ Semivolatile Organics in Ambient Air

Matrix: Air

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|-------------------|--------------------|--|----------|----------|----------|
| Lab Sample ID | Client Sample ID | FBP | NBZ | TPHL | C6N |
| | | (51-109) | (32-137) | (65-124) | (50-150) |
| 140-29387-1 | PAH01_221025_S | 91 | 90 | 104 | 54 |
| 140-29387-2 | PAH02_221025_S | 86 | 96 | 102 | 48 S1- |
| 140-29387-3 | PAH03_221025_S | 89 | 86 | 104 | 42 S1- |
| 140-29387-3 - DL | PAH03_221025_S | 0 D S1- | 0 D S1- | 0 D S1- | 0 D S1- |
| 140-29387-4 | PAH04_221025_S | 88 | 91 | 100 | 48 S1- |
| 140-29387-4 - DL | PAH04_221025_S | 0 S1- D | 0 S1- D | 0 S1- D | 0 S1- D |
| LCS 140-66861/2-A | Lab Control Sample | 91 | 90 | 102 | |
| MB 140-66861/1-A | Method Blank | 104 | 100 | 123 | |

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

C6N = 13C6-Naphthalene

QC Sample Results

Client: Enthalpy Analytical LLC
Project/Site: ALL4 - US Steel - TO-13A

Job ID: 140-29387-1

Method: TO-13A - PAHs/ Semivolatile Organics in Ambient Air

Lab Sample ID: MB 140-66861/1-A

Matrix: Air

Analysis Batch: 67403

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66861

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|------|------|-----------|---|----------------|----------------|---------|
| Acenaphthene | ND | | 5.00 | 1.50 | ug/Sample | | 10/31/22 00:59 | 11/13/22 11:43 | 1 |
| Acenaphthylene | ND | | 5.00 | 1.70 | ug/Sample | | 10/31/22 00:59 | 11/13/22 11:43 | 1 |
| Anthracene | ND | | 5.00 | 1.40 | ug/Sample | | 10/31/22 00:59 | 11/13/22 11:43 | 1 |
| Benzo(a)anthracene | ND | | 5.00 | 1.10 | ug/Sample | | 10/31/22 00:59 | 11/13/22 11:43 | 1 |
| Benzo[a]pyrene | ND | | 5.00 | 2.20 | ug/Sample | | 10/31/22 00:59 | 11/13/22 11:43 | 1 |
| Benzo[b]fluoranthene | ND | | 5.00 | 2.20 | ug/Sample | | 10/31/22 00:59 | 11/13/22 11:43 | 1 |
| Benzo[g,h,i]perylene | ND | | 5.00 | 1.70 | ug/Sample | | 10/31/22 00:59 | 11/13/22 11:43 | 1 |
| Benzo[k]fluoranthene | ND | | 5.00 | 1.30 | ug/Sample | | 10/31/22 00:59 | 11/13/22 11:43 | 1 |
| Chrysene | ND | | 5.00 | 1.30 | ug/Sample | | 10/31/22 00:59 | 11/13/22 11:43 | 1 |
| Dibenz(a,h)anthracene | ND | | 5.00 | 1.70 | ug/Sample | | 10/31/22 00:59 | 11/13/22 11:43 | 1 |
| Fluoranthene | ND | | 5.00 | 1.50 | ug/Sample | | 10/31/22 00:59 | 11/13/22 11:43 | 1 |
| Fluorene | ND | | 5.00 | 1.50 | ug/Sample | | 10/31/22 00:59 | 11/13/22 11:43 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 5.00 | 2.20 | ug/Sample | | 10/31/22 00:59 | 11/13/22 11:43 | 1 |
| Naphthalene | ND | | 5.00 | 1.60 | ug/Sample | | 10/31/22 00:59 | 11/13/22 11:43 | 1 |
| Phenanthrene | ND | | 5.00 | 1.40 | ug/Sample | | 10/31/22 00:59 | 11/13/22 11:43 | 1 |
| Pyrene | ND | | 5.00 | 1.50 | ug/Sample | | 10/31/22 00:59 | 11/13/22 11:43 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 104 | | 51 - 109 | 10/31/22 00:59 | 11/13/22 11:43 | 1 |
| Nitrobenzene-d5 (Surr) | 100 | | 32 - 137 | 10/31/22 00:59 | 11/13/22 11:43 | 1 |
| Terphenyl-d14 (Surr) | 123 | | 65 - 124 | 10/31/22 00:59 | 11/13/22 11:43 | 1 |

Lab Sample ID: LCS 140-66861/2-A

Matrix: Air

Analysis Batch: 67403

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66861

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|------------|---------------|-----------|---|------|-------------|
| Acenaphthene | 100 | 81.37 | | ug/Sample | | 81 | 57 - 117 |
| Acenaphthylene | 100 | 83.74 | | ug/Sample | | 84 | 62 - 122 |
| Anthracene | 100 | 87.27 | | ug/Sample | | 87 | 62 - 122 |
| Benzo(a)anthracene | 100 | 89.87 | | ug/Sample | | 90 | 68 - 128 |
| Benzo[a]pyrene | 100 | 86.25 | | ug/Sample | | 86 | 58 - 118 |
| Benzo[b]fluoranthene | 100 | 95.87 | | ug/Sample | | 96 | 59 - 122 |
| Benzo[g,h,i]perylene | 100 | 94.07 | | ug/Sample | | 94 | 64 - 124 |
| Benzo[k]fluoranthene | 100 | 82.88 | | ug/Sample | | 83 | 59 - 119 |
| Chrysene | 100 | 91.40 | | ug/Sample | | 91 | 57 - 117 |
| Dibenz(a,h)anthracene | 100 | 96.22 | | ug/Sample | | 96 | 63 - 123 |
| Fluoranthene | 100 | 89.54 | | ug/Sample | | 90 | 62 - 122 |
| Fluorene | 100 | 88.08 | | ug/Sample | | 88 | 61 - 121 |
| Indeno[1,2,3-cd]pyrene | 100 | 88.11 | | ug/Sample | | 88 | 65 - 125 |
| Naphthalene | 100 | 86.73 | | ug/Sample | | 87 | 54 - 114 |
| Phenanthrene | 100 | 86.88 | | ug/Sample | | 87 | 60 - 120 |
| Pyrene | 100 | 85.62 | | ug/Sample | | 86 | 60 - 120 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-------------------------|---------------|---------------|----------|
| 2-Fluorobiphenyl (Surr) | 91 | | 51 - 109 |
| Nitrobenzene-d5 (Surr) | 90 | | 32 - 137 |
| Terphenyl-d14 (Surr) | 102 | | 65 - 124 |

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QC Association Summary

Client: Enthalpy Analytical LLC
Project/Site: ALL4 - US Steel - TO-13A

Job ID: 140-29387-1

Air - GC/MS Semi VOA

Prep Batch: 66861

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 140-29387-1 | PAH01_221025_S | Total/NA | Air | TO-13A | |
| 140-29387-2 | PAH02_221025_S | Total/NA | Air | TO-13A | |
| 140-29387-3 | PAH03_221025_S | Total/NA | Air | TO-13A | |
| 140-29387-3 - DL | PAH03_221025_S | Total/NA | Air | TO-13A | |
| 140-29387-4 | PAH04_221025_S | Total/NA | Air | TO-13A | |
| 140-29387-4 - DL | PAH04_221025_S | Total/NA | Air | TO-13A | |
| MB 140-66861/1-A | Method Blank | Total/NA | Air | TO-13A | |
| LCS 140-66861/2-A | Lab Control Sample | Total/NA | Air | TO-13A | |

Cleanup Batch: 67133

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| 140-29387-1 | PAH01_221025_S | Total/NA | Air | Split | 66861 |
| 140-29387-2 | PAH02_221025_S | Total/NA | Air | Split | 66861 |
| 140-29387-3 | PAH03_221025_S | Total/NA | Air | Split | 66861 |
| 140-29387-3 - DL | PAH03_221025_S | Total/NA | Air | Split | 66861 |
| 140-29387-4 | PAH04_221025_S | Total/NA | Air | Split | 66861 |
| 140-29387-4 - DL | PAH04_221025_S | Total/NA | Air | Split | 66861 |

Analysis Batch: 67403

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 140-29387-2 | PAH02_221025_S | Total/NA | Air | TO-13A | 67133 |
| 140-29387-3 | PAH03_221025_S | Total/NA | Air | TO-13A | 67133 |
| 140-29387-4 | PAH04_221025_S | Total/NA | Air | TO-13A | 67133 |
| MB 140-66861/1-A | Method Blank | Total/NA | Air | TO-13A | 66861 |
| LCS 140-66861/2-A | Lab Control Sample | Total/NA | Air | TO-13A | 66861 |

Analysis Batch: 67444

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| 140-29387-3 - DL | PAH03_221025_S | Total/NA | Air | TO-13A | 67133 |

Analysis Batch: 67474

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| 140-29387-4 - DL | PAH04_221025_S | Total/NA | Air | TO-13A | 67133 |

Analysis Batch: 67601

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 140-29387-1 | PAH01_221025_S | Total/NA | Air | TO-13A | 67133 |

Lab Chronicle

Client: Enthalpy Analytical LLC
Project/Site: ALL4 - US Steel - TO-13A

Job ID: 140-29387-1

Client Sample ID: PAH01_221025_S

Lab Sample ID: 140-29387-1

Date Collected: 10/25/22 11:16

Matrix: Air

Date Received: 10/27/22 07:45

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | TO-13A | | | 1 PUF | 1 mL | 66861 | 10/31/22 00:59 | CLI | EET KNX |
| Total/NA | Cleanup | Split | | | 1 mL | 1 mL | 67133 | 11/03/22 13:38 | DWS | EET KNX |
| Total/NA | Analysis | TO-13A | | 2 | 1 mL | 1 mL | 67601 | 11/17/22 15:32 | DWS | EET KNX |
| Instrument ID: MY | | | | | | | | | | |

Client Sample ID: PAH02_221025_S

Lab Sample ID: 140-29387-2

Date Collected: 10/25/22 11:27

Matrix: Air

Date Received: 10/27/22 07:45

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | TO-13A | | | 1 PUF | 1 mL | 66861 | 10/31/22 00:59 | CLI | EET KNX |
| Total/NA | Cleanup | Split | | | 1 mL | 1 mL | 67133 | 11/03/22 13:38 | DWS | EET KNX |
| Total/NA | Analysis | TO-13A | | 10 | 1 mL | 1 mL | 67403 | 11/13/22 12:56 | DWS | EET KNX |
| Instrument ID: MY | | | | | | | | | | |

Client Sample ID: PAH03_221025_S

Lab Sample ID: 140-29387-3

Date Collected: 10/25/22 11:36

Matrix: Air

Date Received: 10/27/22 07:45

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | TO-13A | | | 1 PUF | 1 mL | 66861 | 10/31/22 00:59 | CLI | EET KNX |
| Total/NA | Cleanup | Split | | | 1 mL | 1 mL | 67133 | 11/03/22 13:38 | DWS | EET KNX |
| Total/NA | Analysis | TO-13A | | 10 | 1 mL | 1 mL | 67403 | 11/13/22 13:21 | DWS | EET KNX |
| Instrument ID: MY | | | | | | | | | | |
| Total/NA | Prep | TO-13A | DL | | 1 PUF | 1 mL | 66861 | 10/31/22 00:59 | CLI | EET KNX |
| Total/NA | Cleanup | Split | DL | | 1 mL | 1 mL | 67133 | 11/03/22 13:38 | DWS | EET KNX |
| Total/NA | Analysis | TO-13A | DL | 50 | 1 mL | 1 mL | 67444 | 11/14/22 14:37 | DWS | EET KNX |
| Instrument ID: MY | | | | | | | | | | |

Client Sample ID: PAH04_221025_S

Lab Sample ID: 140-29387-4

Date Collected: 10/25/22 11:06

Matrix: Air

Date Received: 10/27/22 07:45

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | TO-13A | | | 1 PUF | 1 mL | 66861 | 10/31/22 00:59 | CLI | EET KNX |
| Total/NA | Cleanup | Split | | | 1 mL | 1 mL | 67133 | 11/03/22 13:38 | DWS | EET KNX |
| Total/NA | Analysis | TO-13A | | 10 | 1 mL | 1 mL | 67403 | 11/13/22 13:44 | DWS | EET KNX |
| Instrument ID: MY | | | | | | | | | | |
| Total/NA | Prep | TO-13A | DL | | 1 PUF | 1 mL | 66861 | 10/31/22 00:59 | CLI | EET KNX |
| Total/NA | Cleanup | Split | DL | | 1 mL | 1 mL | 67133 | 11/03/22 13:38 | DWS | EET KNX |
| Total/NA | Analysis | TO-13A | DL | 400 | 1 mL | 1 mL | 67474 | 11/15/22 16:21 | DWS | EET KNX |
| Instrument ID: MY | | | | | | | | | | |

Eurofins Knoxville

Lab Chronicle

Client: Enthalpy Analytical LLC
Project/Site: ALL4 - US Steel - TO-13A

Job ID: 140-29387-1

Client Sample ID: Method Blank

Lab Sample ID: MB 140-66861/1-A

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | TO-13A | | | 1 PUF | 1 mL | 66861 | 10/31/22 00:59 | CLI | EET KNX |
| Total/NA | Analysis | TO-13A | | 1 | 1 mL | 1 mL | 67403 | 11/13/22 11:43 | DWS | EET KNX |
| Instrument ID: MY | | | | | | | | | | |

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-66861/2-A

Date Collected: N/A

Matrix: Air

Date Received: N/A

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-------------------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | TO-13A | | | 1 PUF | 1 mL | 66861 | 10/31/22 00:59 | CLI | EET KNX |
| Total/NA | Analysis | TO-13A | | 2 | 1 mL | 1 mL | 67403 | 11/13/22 12:08 | DWS | EET KNX |
| Instrument ID: MY | | | | | | | | | | |

Laboratory References:

EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Accreditation/Certification Summary

Client: Enthalpy Analytical LLC
Project/Site: ALL4 - US Steel - TO-13A

Job ID: 140-29387-1

Laboratory: Eurofins Knoxville

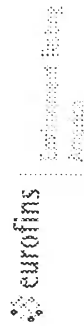
All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.


| Authority | Program | Identification Number | Expiration Date |
|------------------------|-----------------------|-----------------------|-----------------|
| | AFCEE | N/A | |
| ANAB | Dept. of Defense ELAP | L2311 | 02-13-25 |
| ANAB | Dept. of Energy | L2311.01 | 02-13-25 |
| ANAB | ISO/IEC 17025 | L2311 | 02-13-25 |
| Arkansas DEQ | State | 88-0688 | 06-16-23 |
| California | State | 2423 | 06-30-22 * |
| Colorado | State | TN00009 | 02-28-23 |
| Connecticut | State | PH-0223 | 09-30-23 |
| Florida | NELAP | E87177 | 06-30-23 |
| Georgia (DW) | State | 906 | 12-11-22 |
| Hawaii | State | NA | 12-11-22 |
| Kansas | NELAP | E-10349 | 10-31-23 |
| Kentucky (DW) | State | 90101 | 12-31-22 |
| Louisiana | NELAP | 83979 | 06-30-23 |
| Louisiana (All) | NELAP | 83979 | 06-30-23 |
| Louisiana (DW) | State | LA019 | 12-31-22 |
| Maryland | State | 277 | 03-31-23 |
| Michigan | State | 9933 | 12-11-22 |
| Nevada | State | TN00009 | 07-31-23 |
| New Hampshire | NELAP | 299919 | 01-17-23 |
| New Jersey | NELAP | TN001 | 06-30-23 |
| New York | NELAP | 10781 | 03-31-23 |
| North Carolina (DW) | State | 21705 | 07-31-23 |
| North Carolina (WW/SW) | State | 64 | 12-31-22 |
| Ohio VAP | State | CL0059 | 06-02-23 |
| Oklahoma | State | 9415 | 08-31-23 |
| Oregon | NELAP | TNI0189 | 12-31-22 |
| Pennsylvania | NELAP | 68-00576 | 12-01-23 |
| Tennessee | State | 02014 | 07-27-25 |
| Texas | NELAP | T104704380-22-17 | 08-31-23 |
| US Fish & Wildlife | US Federal Programs | 058448 | 07-31-23 |
| USDA | US Federal Programs | P330-19-00236 | 12-31-22 |
| Utah | NELAP | TN00009 | 07-31-23 |
| Virginia | NELAP | 460176 | 09-14-23 |
| Washington | State | C593 | 01-19-23 |
| West Virginia (DW) | State | 9955C | 12-31-22 |
| West Virginia DEP | State | 345 | 04-30-23 |
| Wisconsin | State | 998044300 | 08-31-23 |

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

Eurofins Knoxville

Chain of Custody Record



| | | | | | | |
|---|------------|--|-------------|---------------------------------|--------|------------|
| Regulatory Program: <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other | | Project Manager: Dustin Snare | | | | |
| Client Contact | | Email: dsnare@all4inc.com | | | | |
| ALL4 LLC | | Tel/Fax: 610-422-1126 | | | | |
| 319 Spring St | | Analysis Turnaround Time | | | | |
| Ryersford, PA 19442 | | <input type="checkbox"/> CALENDAR <input type="checkbox"/> WORKING | | | | |
| (610) 422-1126 | | TAT if different from Below | | | | |
| (xxx) xxx-xxxx | | <input type="checkbox"/> 2 weeks | | | | |
| Project Name: U. S. Steel Coke ICR Monitoring | | <input type="checkbox"/> 1 week | | | | |
| Site: U. S. Steel Corporation - Clairton, PA Works | | <input type="checkbox"/> 2 days | | | | |
| PO# | | <input type="checkbox"/> 1 day | | | | |
| Sample Identification | | Sample Date | Sample Time | Sample Type (C=Comp, G=Grab) | Matrix | # of Cont. |
| PAH01_221025_S | 2022-10-25 | 11:16 | Filter | A | 1 | |
| PAH02_221025_S | 2022-10-25 | 11:27 | Filter | A | 1 | |
| PAH03_221025_S | 2022-10-25 | 11:36 | Filter | A | 1 | |
| PAH04_221025_S | 2022-10-25 | 11:06 | Filter | A | 1 | |
| Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other | | | | | | |
| Possible Hazard Identification: | | | | | | |
| Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. | | | | | | |
| <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown | | | | | | |
| Special Instructions/QC Requirements & Comments: | | | | | | |
| Custody Seals Intact: <input type="checkbox"/> Yes | | I No.: | | Company: ALL4 LLC | | |
| Relinquished by: Stacy Arner | | Date/Time: 22/10/26 12:30PM | | Received by: <i>[Signature]</i> | | |
| Relinquished by: | | Date/Time: | | Received by: | | |
| Relinquished by: | | Date/Time: | | Received in Laboratory by: | | |
| COC No.: | | Date: 22/10/26 | | Therm ID No.: | | |
| 1 of 1 COCs | | Carrier: | | Company: <i>ETA</i> | | |
| TALS Project #: | | Lab Contact: David Myers | | Date/Time: 10-27-22 07:45 | | |
| Sampler: | | | | Date/Time: | | |
| For Lab Use Only: | | | | Date/Time: | | |
| Walk-in Client: | | | | Date/Time: | | |
| Lab Sampling: | | | | Date/Time: | | |
| Job / SDG No.: | | | | Date/Time: | | |
| Sample Specific Notes: | | | | Date/Time: | | |
| End: 22/10/26 11:17 ID: 10052220 | | | | Date/Time: | | |
| End: 22/10/26 11:31 ID: 10052217 | | | | Date/Time: | | |
| End: 22/10/26 11:39 ID: 10052215 | | | | Date/Time: | | |
| End: 22/10/26 11:08 ID: 10052214 | | | | Date/Time: | | |
|  | | | | | | |
| 140-29387 Chain of Custody | | | | | | |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | | | | |
| <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for Months | | | | | | |

EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST Log In Number:

| Review Items | Yes | No | NA | If No, what was the problem? | Comments/Actions Taken |
|--|-----|----|----|--|--|
| 1. Are the shipping containers intact? | / | | | <input type="checkbox"/> Containers, Broken | CUSTOMER SEALS INTACT |
| 2. Were ambient air containers received intact? | / | | | <input type="checkbox"/> Checked in lab | RECEIVED AT RT 03/CTD 4°C |
| 3. The coolers/containers custody seal if present, is it intact? | / | | | <input type="checkbox"/> Yes <input type="checkbox"/> NA | 1610-27-22 1601A FEOX # 20916 1226 7128 F0 |
| 4. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VOST: 10°C) Thermometer ID : <u>SG73</u> Correction factor: <u>±0.1°C</u> | / | | | <input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt | NOTED BY <u>Rampham</u> BY FAX 10/2/22 07:45 |
| 5. Were all of the sample containers received intact? | / | | | <input type="checkbox"/> Containers, Broken | 7, USING EMAIL COPY |
| 6. Were samples received in appropriate containers? | / | | | <input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel | SCENES 4 PIFS |
| 7. Do sample container labels match COC? (IDs, Dates, Times) | / | | | <input checked="" type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input checked="" type="checkbox"/> COC Not Received | TO13KNOX 100522-20 " -14 " -15 " -17 |
| 8. Were all of the samples listed on the COC received? | / | | | <input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received <input type="checkbox"/> COC; No Date/Time; Client Contacted | 2 AND 3'S ON CONTAINERS, MATCHED BY TO-13 ID NUMBERS |
| 9. Is the date/time of sample collection noted? | / | | | | Labeling Verified by: _____ Date: _____ |
| 10. Was the sampler identified on the COC? | / | | | <input type="checkbox"/> Sampler Not Listed on COC | pH test strip lot number: _____ |
| 11. Is the client and project name/# identified? | / | | | <input type="checkbox"/> COC Incorrect/Incomplete | |
| 12. Are tests/parameters listed for each sample? | / | | | <input type="checkbox"/> COC No tests on COC | |
| 13. Is the matrix of the samples noted? | / | | | <input type="checkbox"/> COC Incorrect/Incomplete | |
| 14. Was COC relinquished? (Signed/Dated/Timed) | / | | | <input type="checkbox"/> COC Incorrect/Incomplete | Box 16A: pH Preservation Box 18A: Residual Chlorine |
| 15. Were samples received within holding time? | / | | | <input type="checkbox"/> Holding Time - Receipt | Preservative: _____ |
| 16. Were samples received with correct chemical preservative (excluding Encore)? | / | | | <input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative | Lot Number: _____ Exp Date: _____ Analyst: _____ |
| 17. Were VOA samples received without headspace? | / | | | <input type="checkbox"/> Headspace (VOA only) <input type="checkbox"/> Residual Chlorine | Date: _____ Time: _____ |
| 18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: _____ | / | | | | |
| 19. For 1613B water samples is pH<9? | / | | | <input type="checkbox"/> If no, notify lab to adjust | |
| 20. For rad samples was sample activity info. Provided? | / | | | <input type="checkbox"/> Project missing info | |
| Project #: _____ PM Instructions: _____ | | | | | |

Sample Receiving Associate: Rampham Date: 10-27-22 QA026R32.doc, 062719

Eurofins Knoxville

Job Notes

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Authorization



Authorized for release by
Kevin Woodcock, Senior Project Manager
Kevin.Woodcock@et.eurofinsus.com
(865)291-3082

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11/22/2022 9:39:20 AM