# ANALYTICAL REPORT

June 13, 2025



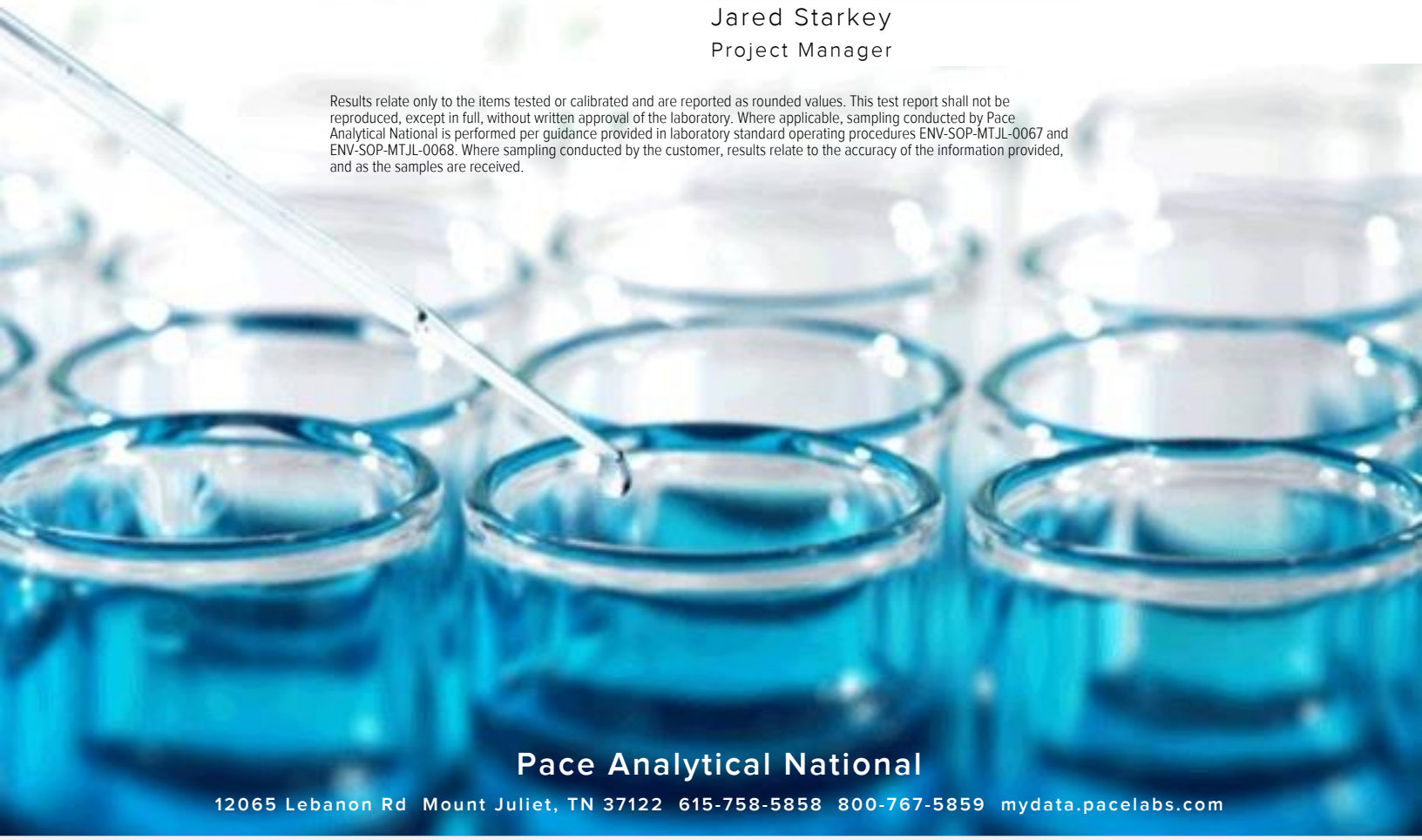
## CTEH - ER

| | |
|---|---|
| Sample Delivery Group: | L1867310 |
| Samples Received: | 06/07/2025 |
| Project Number: | PROJ-054017 |
| Description: | Bishop Loss of Containment Incident |
| Report To: | CTEH<br>5120 North Shore Drive<br>North Little Rock, AR 72118 |

Entire Report Reviewed By:

Jared Starkey
Project Manager





Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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## GACO0606T070S001 L1867310-01

Collected by: M Beck
Collected date/time: 06/06/25 11:55
Received date/time: 06/07/25 10:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Calculated Results | WG2536018 | 1 | 06/12/25 08:29 | 06/12/25 08:29 | RLS | Mt. Juliet, TN |
| Calculated Results | WG2533329 | 1 | 06/07/25 16:24 | 06/10/25 10:21 | JDW | Mt. Juliet, TN |
| Total Solids by Method 2540 G-2011 | WG2533300 | 1 | 06/07/25 15:15 | 06/07/25 15:27 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 350.1 | WG2533835 | 1 | 06/09/25 15:32 | 06/09/25 22:27 | RTW | Mt. Juliet, TN |
| Wet Chemistry by Method 4500NOrg D-2021 | WG2533901 | 5 | 06/09/25 19:54 | 06/10/25 10:21 | JDW | Mt. Juliet, TN |
| Wet Chemistry by Method 7199 | WG2533374 | 1 | 06/07/25 20:45 | 06/10/25 08:13 | EKB | Mt. Juliet, TN |
| Wet Chemistry by Method 9045D | WG2536694 | 1 | 06/12/25 07:06 | 06/12/25 07:43 | RJP | Mt. Juliet, TN |
| Wet Chemistry by Method 9050AMod | WG2536693 | 1 | 06/12/25 14:18 | 06/12/25 14:42 | BJM | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2533329 | 1 | 06/07/25 16:24 | 06/07/25 20:07 | DLH | Mt. Juliet, TN |
| Wet Chemistry by Method WALKLEY-BLACK | WG2533332 | 5 | 06/07/25 16:02 | 06/08/25 19:33 | ARV | Mt. Juliet, TN |
| Metals (ICP) by Method 6010B-NE493 Ch 2 | WG2536079 | 1 | 06/11/25 19:20 | 06/12/25 09:26 | RLS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D | WG2533358 | 1 | 06/07/25 16:38 | 06/07/25 21:00 | BAG | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B | WG2537275 | 5 | 06/12/25 16:51 | 06/12/25 20:45 | LD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D | WG2533349 | 25 | 06/07/25 14:49 | 06/07/25 17:21 | AV | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2533297 | 1 | 06/07/25 14:49 | 06/07/25 17:17 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG2533319 | 1 | 06/07/25 15:52 | 06/08/25 06:43 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270E | WG2533313 | 2 | 06/07/25 16:20 | 06/08/25 04:16 | LS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM | WG2533320 | 1 | 06/07/25 16:22 | 06/07/25 20:54 | KB | Mt. Juliet, TN |

## GACO0606T070S001 L1867310-02

Collected by: M Beck
Collected date/time: 06/06/25 11:55
Received date/time: 06/07/25 10:15

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method DOE Ga-01-R/901.1 | WG2534740 | 1 | 06/09/25 08:05 | 06/10/25 10:42 | ZRG | Mt. Juliet, TN |

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jared Starkey
Project Manager

## Wet Chemistry by Method 4500NOrg D-2021

The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).

| Batch | Lab Sample ID | Analytes |
|---|---|---|
| WG2533901 | (MS) R4228114-4 | Kjeldahl Nitrogen, TKN |
| WG2533901 | (MS) R4228114-6 | Kjeldahl Nitrogen, TKN |
| WG2533901 | (MSD) R4228114-7 | Kjeldahl Nitrogen, TKN |

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

| Batch | Lab Sample ID | Analytes |
|---|---|---|
| WG2533901 | (MS) R4228114-6, (MSD) R4228114-7 | Kjeldahl Nitrogen, TKN |

## Wet Chemistry by Method 7199

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

| Batch | Lab Sample ID | Analytes |
|---|---|---|
| WG2533374 | (MS) R4228077-8, (MSD) R4228077-9 | Hexavalent Chromium |

The associated batch QC was outside the established quality control range for precision.

| Batch | Lab Sample ID | Analytes |
|---|---|---|
| WG2533374 | (MSD) R4228077-9 | Hexavalent Chromium |

## Metals (ICP) by Method 6010D

The sample concentration is too high to evaluate accurate spike recoveries.

| Batch | Lab Sample ID | Analytes |
|---|---|---|
| WG2533358 | (MS) R4227166-5, (MSD) R4227166-6 | Aluminum, Calcium and Iron |

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

| Batch | Lab Sample ID | Analytes |
|---|---|---|
| WG2533358 | (MS) R4227166-5, (MSD) R4227166-6 | Antimony, Magnesium, Manganese and Potassium |

The associated batch QC was outside the established quality control range for precision.

| Batch | Lab Sample ID | Analytes |
|---|---|---|
| WG2533358 | (MSD) R4227166-6 | Iron and Manganese |

## Metals (ICPMS) by Method 6020B

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

| Batch | Lab Sample ID | Analytes |
|---|---|---|
| WG2537275 | (MS) R4229638-5 | Barium |

The sample matrix interfered with the ability to make any accurate determination; spike value is high.

| Batch | Lab Sample ID | Analytes |
|---|---|---|
| WG2537275 | (MSD) R4229638-6 | Zinc |

## Volatile Organic Compounds (GC/MS) by Method 8260D

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

| Batch | Lab Sample ID | Analytes |
|---|---|---|
| WG2533297 | L1867310-01 | Bromomethane, Chloromethane, Dichlorodifluoromethane and Vinyl chloride |

The same analyte is found in the associated blank.

| Batch | Analyte | Lab Sample ID |
|---|---|---|
| WG2533297 | Chloroform | L1867310-01 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270E

The initial calibration verification standard (SSCV) associated with this data responded high.

| Batch | Lab Sample ID | Analytes |
|---|---|---|
| WG2533313 | L1867310-01 | Hexachlorocyclopentadiene |

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

| Batch | Lab Sample ID | Analytes |
|---|---|---|
| WG2533313 | L1867310-01 | n-Nitrosodi-n-propylamine |

The associated batch QC was below the established quality control range for accuracy.

| Batch | Lab Sample ID | Analytes |
|---|---|---|
| WG2533313 | (LCS) R4227244-1, L1867310-01 | Benzidine |

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

| Batch | Lab Sample ID | Analytes |
|---|---|---|
| WG2533313 | (MS) R4227244-3, (MSD) R4227244-4 | 2,4-Dinitrophenol, Benzidine and Hexachlorocyclopentadiene |

## Calculated Results

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|
| GACO0606T070S001 | L1867310-01 | Total Nitrogen | 1810 | | 23.4 | 1 | 06/10/2025 10:21 | WG2533329 |

## Radiochemistry by Method DOE Ga-01-R/901.1

| Client ID | Lab Sample ID | Analyte | Result pCi/g | Qualifier | 2 sigma CE + / - | TPU + / - | MDA pCi/g | Lc pCi/g | Analysis Date date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|---|
| GACO0606T070S001 | L1867310-02 | Actinium-228 (Ra-228) | 0.808 | | 0.243 | 0.243 | 0.483 | 0.217 | 06/10/2025 10:42 | WG2534740 |
| GACO0606T070S001 | L1867310-02 | Bismuth-214 (Ra-226) | 0.590 | | 0.161 | 0.161 | 0.233 | 0.105 | 06/10/2025 10:42 | WG2534740 |
| GACO0606T070S001 | L1867310-02 | Lead-214 | 0.604 | | 0.153 | 0.153 | 0.255 | 0.117 | 06/10/2025 10:42 | WG2534740 |
| GACO0606T070S001 | L1867310-02 | Thorium-234 (U-238) | -0.578 | U | 1.39 | 1.39 | 3.15 | 1.25 | 06/10/2025 10:42 | WG2534740 |
| GACO0606T070S001 | L1867310-02 | Radium-226 (186 KeV) | 0.672 | U | 0.846 | 0.846 | 1.60 | 0.751 | 06/10/2025 10:42 | WG2534740 |

## Wet Chemistry by Method 4500NOrg D-2021

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|
| GACO0606T070S001 | L1867310-01 | Kjeldahl Nitrogen, TKN | 1780 | | 117 | 5 | 06/10/2025 10:21 | WG2533901 |

## Wet Chemistry by Method 9050AMod

| Client ID | Lab Sample ID | Analyte | Result | Units | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|---|
| GACO0606T070S001 | L1867310-01 | Specific Conductance | 389 | umhos/cm | | 10.0 | 1 | 06/12/2025 14:42 | WG2536693 |

## Wet Chemistry by Method 9056A

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|
| GACO0606T070S001 | L1867310-01 | Nitrate-Nitrite | 32.0 | | 23.4 | 1 | 06/07/2025 20:07 | WG2533329 |

## Wet Chemistry by Method WALKLEY-BLACK

| Client ID | Lab Sample ID | Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|
| GACO0606T070S001 | L1867310-01 | TOC By Walkley Black | 15600 | | 500 | 5 | 06/08/2025 19:33 | WG2533332 |

## Metals (ICP) by Method 6010B-NE493 Ch 2

| Client ID | Lab Sample ID | Analyte | Result mg/l | Qualifier | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|
| GACO0606T070S001 | L1867310-01 | Hot Water Sol. Boron | 1.13 | | 0.200 | 1 | 06/12/2025 09:26 | WG2536079 |

## Metals (ICP) by Method 6010D

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|
| GACO0606T070S001 | L1867310-01 | Aluminum | 6780 | | 23.4 | 1 | 06/07/2025 21:00 | WG2533358 |
| GACO0606T070S001 | L1867310-01 | Beryllium | 0.410 | | 0.234 | 1 | 06/07/2025 21:00 | WG2533358 |
| GACO0606T070S001 | L1867310-01 | Calcium | 7460 | | 117 | 1 | 06/07/2025 21:00 | WG2533358 |
| GACO0606T070S001 | L1867310-01 | Chromium | 7.46 | | 1.17 | 1 | 06/07/2025 21:00 | WG2533358 |
| GACO0606T070S001 | L1867310-01 | Cobalt | 3.50 | | 1.17 | 1 | 06/07/2025 21:00 | WG2533358 |
| GACO0606T070S001 | L1867310-01 | Iron | 8650 | | 11.7 | 1 | 06/07/2025 21:00 | WG2533358 |
| GACO0606T070S001 | L1867310-01 | Magnesium | 2140 | | 117 | 1 | 06/07/2025 21:00 | WG2533358 |
| GACO0606T070S001 | L1867310-01 | Manganese | 196 | | 1.17 | 1 | 06/07/2025 21:00 | WG2533358 |
| GACO0606T070S001 | L1867310-01 | Potassium | 1830 | | 117 | 1 | 06/07/2025 21:00 | WG2533358 |
| GACO0606T070S001 | L1867310-01 | Vanadium | 14.4 | | 2.34 | 1 | 06/07/2025 21:00 | WG2533358 |

## Metals (ICPMS) by Method 6020B

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|
| GACO0606T070S001 | L1867310-01 | Arsenic | 3.33 | | 0.117 | 5 | 06/12/2025 20:45 | WG2537275 |
| GACO0606T070S001 | L1867310-01 | Barium | 75.4 | | 11.7 | 5 | 06/12/2025 20:45 | WG2537275 |
| GACO0606T070S001 | L1867310-01 | Cadmium | 0.218 | | 0.117 | 5 | 06/12/2025 20:45 | WG2537275 |
| GACO0606T070S001 | L1867310-01 | Selenium | 0.307 | | 0.117 | 5 | 06/12/2025 20:45 | WG2537275 |
| GACO0606T070S001 | L1867310-01 | Zinc | 58.9 | | 58.4 | 5 | 06/12/2025 20:45 | WG2537275 |

## Volatile Organic Compounds (GC/MS) by Method 8260D

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|
| GACO0606T070S001 | L1867310-01 | Chloroform | 0.00521 | B | 0.00334 | 1 | 06/07/2025 17:17 | WG2533297 |

## Semi-Volatile Organic Compounds (GC) by Method 8015M

| Client ID | Lab Sample ID | Analyte | Result (dry) mg/kg | Qualifier | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|---|
| GACO0606T070S001 | L1867310-01 | C28-C36 Motor Oil Range | 37.1 | | 4.67 | 1 | 06/08/2025 06:43 | WG2533319 |

## Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| Sodium Adsorption Ratio | 0.459 | | 1 | 06/12/2025 08:29 | WG2536018 |

## Calculated Results

| Analyte | Result (dry) mg/kg | Qualifier | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Total Nitrogen | 1810 | | 23.4 | 1 | 06/10/2025 10:21 | WG2533329 |

## Total Solids by Method 2540 G-2011

| Analyte | Result % | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| Total Solids | 85.6 | | 1 | 06/07/2025 15:27 | WG2533300 |

## Wet Chemistry by Method 350.1

| Analyte | Result (dry) mg/kg | Qualifier | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Ammonia Nitrogen | ND | | 11.7 | 1 | 06/09/2025 22:27 | WG2533835 |

## Wet Chemistry by Method 4500NOrg D-2021

| Analyte | Result (dry) mg/kg | Qualifier | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Kjeldahl Nitrogen, TKN | 1780 | | 117 | 5 | 06/10/2025 10:21 | WG2533901 |

## Wet Chemistry by Method 7199

| Analyte | Result (dry) mg/kg | Qualifier | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | | 0.234 | 1 | 06/10/2025 08:13 | WG2533374 |

## Wet Chemistry by Method 9045D

| Analyte | Result su | Qualifier | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|
| pH | 7.72 | | 1 | 06/12/2025 07:43 | WG2536694 |

Sample Narrative:

L1867310-01 WG2536694: 7.72 at 21.1C

## Wet Chemistry by Method 9050AMod

| Analyte | Result | Units | Qualifier | RDL | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Specific Conductance | 389 | umhos/cm | | 10.0 | 1 | 06/12/2025 14:42 | WG2536693 |

Sample Narrative:

L1867310-01 WG2536693: at 25C

## Wet Chemistry by Method 9056A

| Analyte | Result (dry) mg/kg | Qualifier | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Nitrate-Nitrite | 32.0 | | 23.4 | 1 | 06/07/2025 20:07 | WG2533329 |

## Wet Chemistry by Method WALKLEY-BLACK

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| TOC By Walkley Black | 15600 | | 500 | 5 | 06/08/2025 19:33 | WG2533332 |

## Metals (ICP) by Method 6010B-NE493 Ch 2

| Analyte | Result mg/l | Qualifier | RDL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Hot Water Sol. Boron | 1.13 | | 0.200 | 1 | 06/12/2025 09:26 | WG2536079 |

## Metals (ICP) by Method 6010D

| Analyte | Result (dry) mg/kg | Qualifier | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Aluminum | 6780 | | 23.4 | 1 | 06/07/2025 21:00 | WG2533358 |
| Antimony | ND | | 2.34 | 1 | 06/07/2025 21:00 | WG2533358 |
| Beryllium | 0.410 | | 0.234 | 1 | 06/07/2025 21:00 | WG2533358 |
| Calcium | 7460 | | 117 | 1 | 06/07/2025 21:00 | WG2533358 |
| Chromium | 7.46 | | 1.17 | 1 | 06/07/2025 21:00 | WG2533358 |
| Cobalt | 3.50 | | 1.17 | 1 | 06/07/2025 21:00 | WG2533358 |
| Iron | 8650 | | 11.7 | 1 | 06/07/2025 21:00 | WG2533358 |
| Magnesium | 2140 | | 117 | 1 | 06/07/2025 21:00 | WG2533358 |
| Manganese | 196 | | 1.17 | 1 | 06/07/2025 21:00 | WG2533358 |
| Potassium | 1830 | | 117 | 1 | 06/07/2025 21:00 | WG2533358 |
| Sodium | ND | | 117 | 1 | 06/07/2025 21:00 | WG2533358 |
| Thallium | ND | | 2.34 | 1 | 06/07/2025 21:00 | WG2533358 |
| Vanadium | 14.4 | | 2.34 | 1 | 06/07/2025 21:00 | WG2533358 |

## Metals (ICPMS) by Method 6020B

| Analyte | Result (dry) mg/kg | Qualifier | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Arsenic | 3.33 | | 0.117 | 5 | 06/12/2025 20:45 | WG2537275 |
| Barium | 75.4 | | 11.7 | 5 | 06/12/2025 20:45 | WG2537275 |
| Cadmium | 0.218 | | 0.117 | 5 | 06/12/2025 20:45 | WG2537275 |
| Copper | ND | | 11.7 | 5 | 06/12/2025 20:45 | WG2537275 |
| Lead | ND | | 11.7 | 5 | 06/12/2025 20:45 | WG2537275 |
| Nickel | ND | | 11.7 | 5 | 06/12/2025 20:45 | WG2537275 |
| Selenium | 0.307 | | 0.117 | 5 | 06/12/2025 20:45 | WG2537275 |
| Silver | ND | | 0.584 | 5 | 06/12/2025 20:45 | WG2537275 |
| Zinc | 58.9 | | 58.4 | 5 | 06/12/2025 20:45 | WG2537275 |

## Volatile Organic Compounds (GC) by Method 8015D

| Analyte | Result (dry) mg/kg | Qualifier | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| TPH (GC/FID) Low Fraction | ND | | 3.34 | 25 | 06/07/2025 17:21 | WG2533349 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *104* | | *77.0-120* | | *06/07/2025 17:21* | WG2533349 |

## Volatile Organic Compounds (GC/MS) by Method 8260D

| Analyte | Result (dry) mg/kg | Qualifier | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Acetone | ND | | 0.0668 | 1 | 06/07/2025 17:17 | WG2533297 |
| Acrylonitrile | ND | | 0.0167 | 1 | 06/07/2025 17:17 | WG2533297 |
| Benzene | ND | | 0.00134 | 1 | 06/07/2025 17:17 | WG2533297 |
| Bromobenzene | ND | | 0.0167 | 1 | 06/07/2025 17:17 | WG2533297 |
| Bromodichloromethane | ND | | 0.00334 | 1 | 06/07/2025 17:17 | WG2533297 |
| Bromoform | ND | | 0.0334 | 1 | 06/07/2025 17:17 | WG2533297 |
| Bromomethane | ND | C3 | 0.0167 | 1 | 06/07/2025 17:17 | WG2533297 |
| n-Butylbenzene | ND | | 0.0167 | 1 | 06/07/2025 17:17 | WG2533297 |
| sec-Butylbenzene | ND | | 0.0167 | 1 | 06/07/2025 17:17 | WG2533297 |
| tert-Butylbenzene | ND | | 0.00668 | 1 | 06/07/2025 17:17 | WG2533297 |
| Carbon tetrachloride | ND | | 0.00668 | 1 | 06/07/2025 17:17 | WG2533297 |
| Chlorobenzene | ND | | 0.00334 | 1 | 06/07/2025 17:17 | WG2533297 |
| Chlorodibromomethane | ND | | 0.00334 | 1 | 06/07/2025 17:17 | WG2533297 |

## Volatile Organic Compounds (GC/MS) by Method 8260D

| Analyte | Result (dry) mg/kg | Qualifier | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Chloroethane | ND | | 0.00668 | 1 | 06/07/2025 17:17 | WG2533297 |
| Chloroform | 0.00521 | B | 0.00334 | 1 | 06/07/2025 17:17 | WG2533297 |
| Chloromethane | ND | C3 | 0.0167 | 1 | 06/07/2025 17:17 | WG2533297 |
| 2-Chlorotoluene | ND | | 0.00334 | 1 | 06/07/2025 17:17 | WG2533297 |
| 4-Chlorotoluene | ND | | 0.00668 | 1 | 06/07/2025 17:17 | WG2533297 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.0334 | 1 | 06/07/2025 17:17 | WG2533297 |
| 1,2-Dibromoethane | ND | | 0.00334 | 1 | 06/07/2025 17:17 | WG2533297 |
| Dibromomethane | ND | | 0.00668 | 1 | 06/07/2025 17:17 | WG2533297 |
| 1,2-Dichlorobenzene | ND | | 0.00668 | 1 | 06/07/2025 17:17 | WG2533297 |
| 1,3-Dichlorobenzene | ND | | 0.00668 | 1 | 06/07/2025 17:17 | WG2533297 |
| 1,4-Dichlorobenzene | ND | | 0.00668 | 1 | 06/07/2025 17:17 | WG2533297 |
| Dichlorodifluoromethane | ND | C3 | 0.00668 | 1 | 06/07/2025 17:17 | WG2533297 |
| 1,1-Dichloroethane | ND | | 0.00334 | 1 | 06/07/2025 17:17 | WG2533297 |
| 1,2-Dichloroethane | ND | | 0.00334 | 1 | 06/07/2025 17:17 | WG2533297 |
| 1,1-Dichloroethene | ND | | 0.00334 | 1 | 06/07/2025 17:17 | WG2533297 |
| cis-1,2-Dichloroethene | ND | | 0.00334 | 1 | 06/07/2025 17:17 | WG2533297 |
| trans-1,2-Dichloroethene | ND | | 0.00668 | 1 | 06/07/2025 17:17 | WG2533297 |
| 1,2-Dichloropropane | ND | | 0.00668 | 1 | 06/07/2025 17:17 | WG2533297 |
| 1,1-Dichloropropene | ND | | 0.00334 | 1 | 06/07/2025 17:17 | WG2533297 |
| 1,3-Dichloropropane | ND | | 0.00668 | 1 | 06/07/2025 17:17 | WG2533297 |
| cis-1,3-Dichloropropene | ND | | 0.00334 | 1 | 06/07/2025 17:17 | WG2533297 |
| trans-1,3-Dichloropropene | ND | | 0.00668 | 1 | 06/07/2025 17:17 | WG2533297 |
| 2,2-Dichloropropane | ND | | 0.00334 | 1 | 06/07/2025 17:17 | WG2533297 |
| Di-isopropyl ether | ND | | 0.00134 | 1 | 06/07/2025 17:17 | WG2533297 |
| Ethylbenzene | ND | | 0.0134 | 1 | 06/07/2025 17:17 | WG2533297 |
| Hexachloro-1,3-butadiene | ND | | 0.0334 | 1 | 06/07/2025 17:17 | WG2533297 |
| Isopropylbenzene | ND | | 0.00334 | 1 | 06/07/2025 17:17 | WG2533297 |
| p-Isopropyltoluene | ND | | 0.00668 | 1 | 06/07/2025 17:17 | WG2533297 |
| 2-Butanone (MEK) | ND | | 0.134 | 1 | 06/07/2025 17:17 | WG2533297 |
| Methylene Chloride | ND | | 0.0334 | 1 | 06/07/2025 17:17 | WG2533297 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0334 | 1 | 06/07/2025 17:17 | WG2533297 |
| Methyl tert-butyl ether | ND | | 0.00134 | 1 | 06/07/2025 17:17 | WG2533297 |
| n-Propylbenzene | ND | | 0.00668 | 1 | 06/07/2025 17:17 | WG2533297 |
| Styrene | ND | | 0.0167 | 1 | 06/07/2025 17:17 | WG2533297 |
| 1,1,1,2-Tetrachloroethane | ND | | 0.00334 | 1 | 06/07/2025 17:17 | WG2533297 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.00334 | 1 | 06/07/2025 17:17 | WG2533297 |
| 1,1,2-Trichlorotrifluoroethane | ND | | 0.00334 | 1 | 06/07/2025 17:17 | WG2533297 |
| Tetrachloroethene | ND | | 0.00334 | 1 | 06/07/2025 17:17 | WG2533297 |
| Toluene | ND | | 0.0134 | 1 | 06/07/2025 17:17 | WG2533297 |
| 1,2,3-Trichlorobenzene | ND | | 0.0167 | 1 | 06/07/2025 17:17 | WG2533297 |
| 1,2,4-Trichlorobenzene | ND | | 0.0167 | 1 | 06/07/2025 17:17 | WG2533297 |
| 1,1,1-Trichloroethane | ND | | 0.00334 | 1 | 06/07/2025 17:17 | WG2533297 |
| 1,1,2-Trichloroethane | ND | | 0.00334 | 1 | 06/07/2025 17:17 | WG2533297 |
| Trichloroethene | ND | | 0.00134 | 1 | 06/07/2025 17:17 | WG2533297 |
| Trichlorofluoromethane | ND | | 0.00334 | 1 | 06/07/2025 17:17 | WG2533297 |
| 1,2,3-Trichloropropane | ND | | 0.0167 | 1 | 06/07/2025 17:17 | WG2533297 |
| 1,2,3-Trimethylbenzene | ND | | 0.00668 | 1 | 06/07/2025 17:17 | WG2533297 |
| 1,2,4-Trimethylbenzene | ND | | 0.00668 | 1 | 06/07/2025 17:17 | WG2533297 |
| 1,3,5-Trimethylbenzene | ND | | 0.00668 | 1 | 06/07/2025 17:17 | WG2533297 |
| Vinyl chloride | ND | C3 | 0.00334 | 1 | 06/07/2025 17:17 | WG2533297 |
| Xylenes, Total | ND | | 0.134 | 1 | 06/07/2025 17:17 | WG2533297 |
| *(S) Toluene-d8* | *98.3* | | *75.0-131* | | *06/07/2025 17:17* | WG2533297 |
| *(S) 4-Bromofluorobenzene* | *98.5* | | *67.0-138* | | *06/07/2025 17:17* | WG2533297 |
| *(S) 1,2-Dichloroethane-d4* | *102* | | *70.0-130* | | *06/07/2025 17:17* | WG2533297 |

## Semi-Volatile Organic Compounds (GC) by Method 8015M

| Analyte | Result (dry) mg/kg | Qualifier | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| C10-C28 Diesel Range | ND | | 4.67 | 1 | 06/08/2025 06:43 | WG2533319 |
| C28-C36 Motor Oil Range | 37.1 | | 4.67 | 1 | 06/08/2025 06:43 | WG2533319 |
| *(S) o-Terphenyl* | *63.0* | | *18.0-148* | | *06/08/2025 06:43* | WG2533319 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270E

| Analyte | Result (dry) mg/kg | Qualifier | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Acenaphthylene | ND | | 0.0778 | 2 | 06/08/2025 04:16 | WG2533313 |
| Benzidine | ND | J4 | 3.90 | 2 | 06/08/2025 04:16 | WG2533313 |
| Benzo(g,h,i)perylene | ND | | 0.0778 | 2 | 06/08/2025 04:16 | WG2533313 |
| Bis(2-chlorethoxy)methane | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| Bis(2-chloroethyl)ether | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| 2,2-Oxybis(1-Chloropropane) | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| 4-Bromophenyl-phenylether | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| 2-Chloronaphthalene | ND | | 0.0778 | 2 | 06/08/2025 04:16 | WG2533313 |
| 4-Chlorophenyl-phenylether | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| 1,2-Dichlorobenzene | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| 1,3-Dichlorobenzene | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| 1,4-Dichlorobenzene | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| 3,3-Dichlorobenzidine | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| 2,4-Dinitrotoluene | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| 2,6-Dinitrotoluene | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| Hexachlorobenzene | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| Hexachloro-1,3-butadiene | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| Hexachlorocyclopentadiene | ND | C7 | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| Hexachloroethane | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| Isophorone | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| Nitrobenzene | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| n-Nitrosodimethylamine | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| n-Nitrosodiphenylamine | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| n-Nitrosodi-n-propylamine | ND | C3 | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| Phenanthrene | ND | | 0.0778 | 2 | 06/08/2025 04:16 | WG2533313 |
| Benzylbutyl phthalate | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| Bis(2-ethylhexyl)phthalate | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| Di-n-butyl phthalate | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| Diethyl phthalate | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| Dimethyl phthalate | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| Di-n-octyl phthalate | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| 1,2,4-Trichlorobenzene | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| 4-Chloro-3-methylphenol | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| 2-Chlorophenol | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| 2,4-Dichlorophenol | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| 2,4-Dimethylphenol | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| 4,6-Dinitro-2-methylphenol | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| 2,4-Dinitrophenol | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| 2-Nitrophenol | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| 4-Nitrophenol | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| Pentachlorophenol | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| Phenol | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| 2,4,6-Trichlorophenol | ND | | 0.778 | 2 | 06/08/2025 04:16 | WG2533313 |
| *(S) 2-Fluorophenol* | *70.9* | | *12.0-120* | | *06/08/2025 04:16* | WG2533313 |
| *(S) Phenol-d5* | *60.4* | | *10.0-120* | | *06/08/2025 04:16* | WG2533313 |
| *(S) Nitrobenzene-d5* | *59.9* | | *10.0-122* | | *06/08/2025 04:16* | WG2533313 |
| *(S) 2-Fluorobiphenyl* | *71.9* | | *15.0-120* | | *06/08/2025 04:16* | WG2533313 |
| *(S) 2,4,6-Tribromophenol* | *80.6* | | *10.0-127* | | *06/08/2025 04:16* | WG2533313 |
| *(S) p-Terphenyl-d14* | *73.1* | | *10.0-120* | | *06/08/2025 04:16* | WG2533313 |

## Semi Volatile Organic Compounds (GC/MS) by Method 8270E

| Analyte | Result (dry) mg/kg | Qualifier | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|

Sample Narrative:

L1867310-01 WG2533313: Dilution due to matrix impact during extract concentration procedure

## Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

| Analyte | Result (dry) mg/kg | Qualifier | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Anthracene | ND | | 0.0385 | 1 | 06/07/2025 20:54 | WG2533320 |
| Acenaphthene | ND | | 0.0385 | 1 | 06/07/2025 20:54 | WG2533320 |
| Acenaphthylene | ND | | 0.0385 | 1 | 06/07/2025 20:54 | WG2533320 |
| Benzo(a)anthracene | ND | | 0.00701 | 1 | 06/07/2025 20:54 | WG2533320 |
| Benzo(a)pyrene | ND | | 0.0385 | 1 | 06/07/2025 20:54 | WG2533320 |
| Benzo(b)fluoranthene | ND | | 0.0385 | 1 | 06/07/2025 20:54 | WG2533320 |
| Benzo(g,h,i)perylene | ND | | 0.0385 | 1 | 06/07/2025 20:54 | WG2533320 |
| Benzo(k)fluoranthene | ND | | 0.0385 | 1 | 06/07/2025 20:54 | WG2533320 |
| Chrysene | ND | | 0.0385 | 1 | 06/07/2025 20:54 | WG2533320 |
| Dibenz(a,h)anthracene | ND | | 0.0385 | 1 | 06/07/2025 20:54 | WG2533320 |
| Fluoranthene | ND | | 0.0385 | 1 | 06/07/2025 20:54 | WG2533320 |
| Fluorene | ND | | 0.0385 | 1 | 06/07/2025 20:54 | WG2533320 |
| Indeno(1,2,3-cd)pyrene | ND | | 0.0385 | 1 | 06/07/2025 20:54 | WG2533320 |
| Naphthalene | ND | | 0.00350 | 1 | 06/07/2025 20:54 | WG2533320 |
| Phenanthrene | ND | | 0.0385 | 1 | 06/07/2025 20:54 | WG2533320 |
| Pyrene | ND | | 0.0385 | 1 | 06/07/2025 20:54 | WG2533320 |
| 1-Methylnaphthalene | ND | | 0.00350 | 1 | 06/07/2025 20:54 | WG2533320 |
| 2-Methylnaphthalene | ND | | 0.0140 | 1 | 06/07/2025 20:54 | WG2533320 |
| *(S) p-Terphenyl-d14* | *107* | | *23.0-120* | | *06/07/2025 20:54* | WG2533320 |
| *(S) Nitrobenzene-d5* | *98.8* | | *14.0-149* | | *06/07/2025 20:54* | WG2533320 |
| *(S) 2-Fluorobiphenyl* | *96.9* | | *34.0-125* | | *06/07/2025 20:54* | WG2533320 |

## Radiochemistry by Method DOE Ga-01-R/901.1

| Analyte | Result pCi/g | Qualifier | 2 sigma CE + / - | TPU + / - | MDA pCi/g | Lc pCi/g | Analysis Date date / time | Batch |
|---|---|---|---|---|---|---|---|---|
| Actinium-228 (Ra-228) | 0.808 | | 0.243 | 0.243 | 0.483 | 0.217 | 06/10/2025 10:42 | WG2534740 |
| Bismuth-214 (Ra-226) | 0.590 | | 0.161 | 0.161 | 0.233 | 0.105 | 06/10/2025 10:42 | WG2534740 |
| Lead-214 | 0.604 | | 0.153 | 0.153 | 0.255 | 0.117 | 06/10/2025 10:42 | WG2534740 |
| Thorium-234 (U-238) | -0.578 | U | 1.39 | 1.39 | 3.15 | 1.25 | 06/10/2025 10:42 | WG2534740 |
| Radium-226 (186 KeV) | 0.672 | U | 0.846 | 0.846 | 1.60 | 0.751 | 06/10/2025 10:42 | WG2534740 |

## Method Blank (MB)

(MB) R4228175-1 06/10/25 10:36

| Analyte | MB Result pCi/g | MB Qualifier | MB 2 sigma CE + / - | MB MDA pCi/g | MB Lc pCi/g |
|---|---|---|---|---|---|
| Actinium-228 (Ra-228) | -0.0869 | U | 0.226 | 0.592 | 0.247 |
| Americium-241 | 0.0760 | U | 0.195 | 0.370 | 0.173 |
| Bismuth-214 (Ra-226) | 0.0221 | U | 0.156 | 0.351 | 0.152 |
| Cesium-137 | -0.0349 | U | 0.0952 | 0.202 | 0.0877 |
| Cobalt-60 | -0.000373 | U | 0.0455 | 0.168 | 0.0648 |
| Lead-214 | -0.0758 | U | 0.121 | 0.314 | 0.138 |
| Radium-226 (186 KeV) | 1.26 | J | 0.801 | 1.35 | 0.606 |
| Thorium-234 (U-238) | 1.07 | U | 0.909 | 2.18 | 0.853 |

## L1867308-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1867308-02 06/10/25 10:42 • (DUP) R4228175-3 06/10/25 11:29

| Analyte | Original Result pCi/g | Original 2 sigma CE + / - | Original MDA pCi/g | Original Lc pCi/g | DUP Result pCi/g | DUP 2 sigma CE + / - | DUP MDA pCi/g | DUP Lc pCi/g | DUP RPD % | DUP RER | DUP Qualifier | DUP RPD Limits % | DUP RER Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Actinium-228 (Ra-228) | 0.783 | 0.350 | 0.775 | 0.348 | 0.993 | 0.245 | 0.449 | 0.201 | 23.7 | 0.494 | | 20 | 3 |
| Bismuth-214 (Ra-226) | 0.752 | 0.224 | 0.323 | 0.144 | 0.569 | 0.157 | 0.233 | 0.106 | 27.7 | 0.669 | | 20 | 3 |
| Lead-214 | 0.708 | 0.193 | 0.310 | 0.141 | 0.559 | 0.142 | 0.240 | 0.111 | 23.5 | 0.623 | | 20 | 3 |
| Radium-226 (186 KeV) | 1.08 | 0.964 | 1.76 | 0.820 | 0.801 | 0.809 | 1.51 | 0.710 | 29.8 | 0.223 | J | 20 | 3 |
| Thorium-234 (U-238) | 0.883 | 1.55 | 3.30 | 1.31 | -0.451 | 1.34 | 2.96 | 1.17 | 200 | 0.653 | U | 20 | 3 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4228175-2 06/10/25 10:37 • (LCSD) R4228175-4 06/10/25 11:29

| Analyte | Spike Amount pCi/g | LCS Result pCi/g | LCSD Result pCi/g | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Americium-241 | 36.9 | 32.8 | 39.3 | 88.8 | 106 | 80.0-120 | | | 18.0 | 20 |
| Cesium-137 | 53.8 | 58.0 | 58.4 | 108 | 109 | 80.0-120 | | | 0.756 | 20 |
| Cobalt-60 | 62.9 | 66.9 | 67.1 | 106 | 107 | 80.0-120 | | | 0.388 | 20 |

## Method Blank (MB)

(MB) R4227229-1 06/07/25 15:27

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000 | | | |

## L1867308-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1867308-01 06/07/25 15:27 • (DUP) R4227229-3 06/07/25 15:27

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 88.1 | 88.5 | 1 | 0.404 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4227229-2 06/07/25 15:27

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

## Method Blank (MB)

(MB) R4227882-1 06/09/25 22:23

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Ammonia Nitrogen | U | | 7.19 | 10.0 |

## L1867310-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1867310-01 06/09/25 22:27 • (DUP) R4227882-3 06/09/25 22:29

| Analyte | Original Result (dry) mg/kg | DUP Result (dry) mg/kg | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Ammonia Nitrogen | ND | ND | 1 | 0.000 | | 20 |

## L1867315-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1867315-03 06/09/25 23:08 • (DUP) R4227882-6 06/09/25 23:09

| Analyte | Original Result (dry) mg/kg | DUP Result (dry) mg/kg | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Ammonia Nitrogen | ND | ND | 1 | 0.000 | | 20 |

## Laboratory Control Sample (LCS)

(LCS) R4227882-2 06/09/25 22:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Ammonia Nitrogen | 250 | 246 | 98.5 | 90.0-110 | |

## L1867312-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1867312-09 06/09/25 22:45 • (MS) R4227882-4 06/09/25 22:47 • (MSD) R4227882-5 06/09/25 22:48

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia Nitrogen | 305 | ND | 325 | 327 | 107 | 107 | 1 | 90.0-110 | | | 0.473 | 20 |

# QUALITY CONTROL SUMMARY

L1867310-01

## Method Blank (MB)

(MB) R4228114-1 06/10/25 09:37

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Kjeldahl Nitrogen, TKN | U | | 15.2 | 20.0 |

## L1866798-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1866798-09 06/10/25 09:45 • (DUP) R4228114-3 06/10/25 09:47

| Analyte | Original Result (dry) mg/kg | DUP Result (dry) mg/kg | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Kjeldahl Nitrogen, TKN | 1180 | 1050 | 5 | 11.9 | | 20 |

## L1866798-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1866798-11 06/10/25 09:52 • (DUP) R4228114-5 06/10/25 09:54

| Analyte | Original Result (dry) mg/kg | DUP Result (dry) mg/kg | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Kjeldahl Nitrogen, TKN | 1390 | 1240 | 5 | 11.5 | | 20 |

## Laboratory Control Sample (LCS)

(LCS) R4228114-2 06/10/25 09:39

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Kjeldahl Nitrogen, TKN | 624 | 669 | 107 | 81.7-124 | |

## L1866798-10 Original Sample (OS) • Matrix Spike (MS)

(OS) L1866798-10 06/10/25 09:49 • (MS) R4228114-4 06/10/25 09:50

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MS Rec. % | Dilution | Rec. Limits % | MS Qualifier |
|---|---|---|---|---|---|---|---|
| Kjeldahl Nitrogen, TKN | 476 | 873 | 1300 | 90.0 | 1 | 81.7-124 | E |

## L1866798-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1866798-17 06/10/25 10:02 • (MS) R4228114-6 06/10/25 10:04 • (MSD) R4228114-7 06/10/25 10:06

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kjeldahl Nitrogen, TKN | 468 | 1070 | 1270 | 1430 | 42.7 | 78.3 | 1 | 81.7-124 | E J6 | E J6 | 12.4 | 20 |

# QUALITY CONTROL SUMMARY

L1867310-01

## Method Blank (MB)

(MB) R4228077-1 06/09/25 23:00

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Hexavalent Chromium | U | | 0.200 | 0.200 |

## L1867308-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1867308-01 06/09/25 23:21 • (DUP) R4228077-3 06/09/25 23:31

| Analyte | Original Result (dry) mg/kg | DUP Result (dry) mg/kg | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Hexavalent Chromium | ND | ND | 1 | 0.000 | | 20 |

## Laboratory Control Sample (LCS)

(LCS) R4228077-2 06/09/25 23:11

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Hexavalent Chromium | 10.0 | 10.2 | 102 | 80.0-120 | |

## L1867312-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1867312-09 06/10/25 01:37 • (MS) R4228077-8 06/10/25 08:46 • (MSD) R4228077-9 06/10/25 08:57

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | 24.4 | ND | 14.3 | 18.0 | 58.7 | 73.9 | 1 | 75.0-125 | J6 | J3 J6 | 23.0 | 20 |

## L1867312-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L1867312-09 06/10/25 01:37 • (MS) R4228077-4 06/10/25 02:30

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MS Rec. % | Dilution | Rec. Limits % | MS Qualifier |
|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | 788 | ND | 709 | 90.0 | 50 | 75.0-125 | |

## L1866520-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1866520-01 06/12/25 07:43 • (DUP) R4229244-2 06/12/25 07:43

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---|---|---|---|---|---|---|
| | su | su | | % | | % |
| pH | 8.10 | 8.09 | 1 | 0.124 | | 1 |

Sample Narrative:

OS: 8.1 at 20.4C

DUP: 8.09 at 21C

## L1867312-19 Original Sample (OS) • Duplicate (DUP)

(OS) L1867312-19 06/12/25 07:43 • (DUP) R4229244-3 06/12/25 07:43

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---|---|---|---|---|---|---|
| | su | su | | % | | % |
| pH | 8.06 | 8.07 | 1 | 0.124 | | 1 |

Sample Narrative:

OS: 8.06 at 21.1C

DUP: 8.07 at 21.3C

## Laboratory Control Sample (LCS)

(LCS) R4229244-1 06/12/25 07:43

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | su | su | % | % | |
| pH | 10.0 | 10.0 | 100 | 99.0-101 | |

Sample Narrative:

LCS: 10.04 at 21.2C

## Method Blank (MB)

(MB) R4229435-1 06/12/25 14:42

| Analyte | MB Result umhos/cm | MB Qualifier | MB MDL umhos/cm | MB RDL umhos/cm |
|---|---|---|---|---|
| Specific Conductance | U | | 10.0 | 10.0 |

Sample Narrative:
BLANK: at 25C

## L1866520-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1866520-02 06/12/25 14:42 • (DUP) R4229435-3 06/12/25 14:42

| Analyte | Original Result mmhos/cm | DUP Result umhos/cm | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Specific Conductance | ND | 1320 | 1 | 0.000 | | 20 |

Sample Narrative:
OS: at 25C
DUP: at 25C

## L1867312-18 Original Sample (OS) • Duplicate (DUP)

(OS) L1867312-18 06/12/25 14:42 • (DUP) R4229435-4 06/12/25 14:42

| Analyte | Original Result umhos/cm | DUP Result umhos/cm | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Specific Conductance | 404 | 404 | 1 | 0.000 | | 20 |

Sample Narrative:
OS: at 25C
DUP: at 25C

## Laboratory Control Sample (LCS)

(LCS) R4229435-2 06/12/25 14:42

| Analyte | Spike Amount umhos/cm | LCS Result umhos/cm | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Specific Conductance | 581 | 572 | 98.5 | 90.0-110 | |

Sample Narrative:
LCS: at 25C

## Method Blank (MB)

(MB) R4227260-1 06/07/25 19:18

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Nitrate-Nitrite | 0.829 | J | 0.606 | 20.0 |

## Laboratory Control Sample (LCS)

(LCS) R4227260-2 06/07/25 19:34

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Nitrate-Nitrite | 40.0 | 37.4 | 93.5 | 80.0-120 | |

## L1867312-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1867312-09 06/07/25 22:18 • (MS) R4227260-3 06/07/25 22:34 • (MSD) R4227260-4 06/07/25 22:50

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | 48.8 | ND | 46.6 | 44.8 | 93.9 | 90.3 | 1 | 80.0-120 | | | 3.87 | 15 |

## Method Blank (MB)

(MB) R4227358-1 06/08/25 19:32

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TOC By Walkley Black | U | | 25.5 | 100 |

## L1867308-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1867308-01 06/08/25 19:32 • (DUP) R4227358-3 06/08/25 19:33

| Analyte | Original Result mg/kg | DUP Result mg/kg | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| TOC By Walkley Black | 20500 | 21300 | 5 | 4.28 | | 20 |

## L1867312-19 Original Sample (OS) • Duplicate (DUP)

(OS) L1867312-19 06/08/25 19:39 • (DUP) R4227358-6 06/08/25 19:39

| Analyte | Original Result mg/kg | DUP Result mg/kg | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| TOC By Walkley Black | 14700 | 15400 | 5 | 4.84 | | 20 |

## Laboratory Control Sample (LCS)

(LCS) R4227358-2 06/08/25 19:32

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TOC By Walkley Black | 3230 | 3280 | 102 | 75.0-144 | |

## L1867312-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1867312-09 06/08/25 19:35 • (MS) R4227358-4 06/08/25 19:35 • (MSD) R4227358-5 06/08/25 19:36

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TOC By Walkley Black | 20000 | 19000 | 35600 | 35900 | 83.0 | 84.4 | 5 | 80.0-120 | | | 0.796 | 20 |

## Method Blank (MB)

(MB) R4229385-1 06/12/25 09:06

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Hot Water Sol. Boron | U | | 0.0167 | 0.200 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4229385-2 06/12/25 09:07 • (LCSD) R4229385-3 06/12/25 09:09

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCSD Result mg/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Hot Water Sol. Boron | 1.00 | 1.04 | 1.03 | 104 | 103 | 80.0-120 | | | 0.776 | 20 |

## Method Blank (MB)

(MB) R4227166-1 06/07/25 20:45

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Aluminum | U | | 6.08 | 20.0 |
| Antimony | U | | 0.691 | 2.00 |
| Beryllium | U | | 0.0477 | 0.200 |
| Calcium | U | | 19.0 | 100 |
| Chromium | U | | 0.214 | 1.00 |
| Cobalt | U | | 0.177 | 1.00 |
| Iron | U | | 2.24 | 10.0 |
| Magnesium | U | | 19.9 | 100 |
| Manganese | U | | 0.173 | 1.00 |
| Potassium | U | | 20.9 | 100 |
| Sodium | U | | 41.2 | 100 |
| Thallium | U | | 0.518 | 2.00 |
| Vanadium | U | | 0.383 | 2.00 |

## Laboratory Control Sample (LCS)

(LCS) R4227166-2 06/07/25 20:47

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Aluminum | 1000 | 987 | 98.7 | 80.0-120 | |
| Antimony | 100 | 100 | 100 | 80.0-120 | |
| Beryllium | 100 | 103 | 103 | 80.0-120 | |
| Calcium | 1000 | 1030 | 103 | 80.0-120 | |
| Chromium | 100 | 107 | 107 | 80.0-120 | |
| Cobalt | 100 | 100 | 100 | 80.0-120 | |
| Iron | 1000 | 1040 | 104 | 80.0-120 | |
| Magnesium | 1000 | 984 | 98.4 | 80.0-120 | |
| Manganese | 100 | 107 | 107 | 80.0-120 | |
| Potassium | 1000 | 998 | 99.8 | 80.0-120 | |
| Sodium | 1000 | 1030 | 103 | 80.0-120 | |
| Thallium | 100 | 103 | 103 | 80.0-120 | |
| Vanadium | 100 | 99.7 | 99.7 | 80.0-120 | |

## L1867312-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1867312-09 06/07/25 20:49 • (MS) R4227166-5 06/07/25 20:54 • (MSD) R4227166-6 06/07/25 20:56

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 1220 | 11300 | 11400 | 10700 | 6.67 | 0.000 | 1 | 75.0-125 | V | V | 6.60 | 20 |
| Antimony | 122 | ND | 82.5 | 85.4 | 67.6 | 70.0 | 1 | 75.0-125 | J6 | J6 | 3.48 | 20 |
| Beryllium | 122 | 0.688 | 113 | 117 | 92.1 | 95.0 | 1 | 75.0-125 | | | 3.09 | 20 |
| Calcium | 1220 | 9910 | 7610 | 7630 | 0.000 | 0.000 | 1 | 75.0-125 | V | V | 0.314 | 20 |
| Chromium | 122 | 11.2 | 126 | 129 | 94.0 | 96.7 | 1 | 75.0-125 | | | 2.53 | 20 |
| Cobalt | 122 | 5.65 | 120 | 123 | 93.5 | 96.4 | 1 | 75.0-125 | | | 2.89 | 20 |
| Iron | 1220 | 14500 | 12400 | 17900 | 0.000 | 279 | 1 | 75.0-125 | V | J3 V | 36.5 | 20 |
| Magnesium | 1220 | 4120 | 4890 | 4970 | 63.4 | 69.7 | 1 | 75.0-125 | J6 | J6 | 1.56 | 20 |
| Manganese | 122 | 394 | 430 | 535 | 29.8 | 115 | 1 | 75.0-125 | J6 | J3 | 21.6 | 20 |
| Potassium | 1220 | 3430 | 4170 | 4100 | 60.2 | 55.0 | 1 | 75.0-125 | J6 | J6 | 1.54 | 20 |
| Sodium | 1220 | 509 | 1600 | 1660 | 89.4 | 94.5 | 1 | 75.0-125 | | | 3.89 | 20 |
| Thallium | 122 | ND | 114 | 118 | 93.6 | 96.5 | 1 | 75.0-125 | | | 3.05 | 20 |
| Vanadium | 122 | 23.6 | 127 | 135 | 84.6 | 91.0 | 1 | 75.0-125 | | | 5.97 | 20 |

# QUALITY CONTROL SUMMARY

L1867310-01

## Method Blank (MB)

(MB) R4229638-1 06/12/25 20:21

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Arsenic | U | | 0.100 | 0.100 |
| Barium | U | | 10.0 | 10.0 |
| Cadmium | U | | 0.100 | 0.100 |
| Copper | U | | 10.0 | 10.0 |
| Lead | U | | 10.0 | 10.0 |
| Nickel | U | | 10.0 | 10.0 |
| Selenium | U | | 0.100 | 0.100 |
| Silver | U | | 0.500 | 0.500 |
| Zinc | U | | 50.0 | 50.0 |

## Laboratory Control Sample (LCS)

(LCS) R4229638-2 06/12/25 20:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Arsenic | 100 | 96.9 | 96.9 | 80.0-120 | |
| Barium | 100 | 95.7 | 95.7 | 80.0-120 | |
| Cadmium | 100 | 103 | 103 | 80.0-120 | |
| Copper | 100 | 100 | 100 | 80.0-120 | |
| Lead | 100 | 95.7 | 95.7 | 80.0-120 | |
| Nickel | 100 | 103 | 103 | 80.0-120 | |
| Selenium | 100 | 97.9 | 97.9 | 80.0-120 | |
| Silver | 20.0 | 21.4 | 107 | 80.0-120 | |
| Zinc | 100 | 96.9 | 96.9 | 80.0-120 | |

## L1867312-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1867312-09 06/12/25 20:27 • (MS) R4229638-5 06/12/25 20:36 • (MSD) R4229638-6 06/12/25 20:39

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 122 | 4.38 | 104 | 109 | 81.9 | 86.1 | 5 | 75.0-125 | | | 4.87 | 20 |
| Barium | 122 | 106 | 191 | 221 | 69.5 | 94.7 | 5 | 75.0-125 | J6 | | 15.0 | 20 |
| Cadmium | 122 | 0.364 | 115 | 120 | 93.6 | 97.8 | 5 | 75.0-125 | | | 4.36 | 20 |
| Copper | 122 | 12.9 | 120 | 129 | 88.0 | 94.8 | 5 | 75.0-125 | | | 6.62 | 20 |
| Lead | 122 | ND | 113 | 118 | 92.5 | 96.7 | 5 | 75.0-125 | | | 4.39 | 20 |
| Nickel | 122 | ND | 117 | 125 | 96.0 | 103 | 5 | 75.0-125 | | | 6.88 | 20 |
| Selenium | 122 | 0.482 | 108 | 108 | 88.2 | 88.0 | 5 | 75.0-125 | | | 0.254 | 20 |
| Silver | 24.4 | ND | 23.1 | 24.6 | 94.6 | 101 | 5 | 75.0-125 | | | 6.26 | 20 |

## L1867312-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1867312-09 06/12/25 20:27 • (MS) R4229638-5 06/12/25 20:36 • (MSD) R4229638-6 06/12/25 20:39

| Analyte | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Zinc | 122 | ND | 146 | 158 | 120 | 130 | 5 | 75.0-125 | | J5 | 7.72 | 20 |

## Method Blank (MB)

(MB) R4227179-2 06/07/25 16:06

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPH (GC/FID) Low Fraction | U | | 2.00 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *104* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4227179-1 06/07/25 14:54

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPH (GC/FID) Low Fraction | 5.00 | 4.75 | 95.0 | 72.0-127 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *111* | *77.0-120* | |

## L1867315-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1867315-08 06/07/25 19:43 • (MS) R4227179-3 06/07/25 23:42 • (MSD) R4227179-4 06/08/25 00:06

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPH (GC/FID) Low Fraction | 170 | ND | 160 | 164 | 94.4 | 96.8 | 25 | 10.0-151 | | | 2.51 | 28 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *111* | *111* | | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R4227242-3 06/07/25 12:44

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.00100 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | 0.00500 | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.0100 | 0.0100 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method Blank (MB)

(MB) R4227242-3 06/07/25 12:44

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.0100 | 0.0100 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,4-Trimethylbenzene | U | | 0.00500 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00500 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.100 | 0.100 |
| *(S) Toluene-d8* | *99.9* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *97.9* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *103* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4227242-1 06/07/25 11:07 • (LCSD) R4227242-2 06/07/25 11:26

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 0.691 | 0.584 | 111 | 93.4 | 10.0-160 | | | 16.8 | 31 |
| Acrylonitrile | 0.625 | 0.644 | 0.566 | 103 | 90.6 | 45.0-153 | | | 12.9 | 22 |
| Benzene | 0.125 | 0.113 | 0.120 | 90.4 | 96.0 | 70.0-123 | | | 6.01 | 20 |
| Bromobenzene | 0.125 | 0.116 | 0.119 | 92.8 | 95.2 | 73.0-121 | | | 2.55 | 20 |
| Bromodichloromethane | 0.125 | 0.111 | 0.116 | 88.8 | 92.8 | 73.0-121 | | | 4.41 | 20 |
| Bromoform | 0.125 | 0.118 | 0.115 | 94.4 | 92.0 | 64.0-132 | | | 2.58 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4227242-1 06/07/25 11:07 • (LCSD) R4227242-2 06/07/25 11:26

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromomethane | 0.125 | 0.0840 | 0.0968 | 67.2 | 77.4 | 56.0-147 | | | 14.2 | 20 |
| n-Butylbenzene | 0.125 | 0.113 | 0.121 | 90.4 | 96.8 | 68.0-135 | | | 6.84 | 20 |
| sec-Butylbenzene | 0.125 | 0.113 | 0.117 | 90.4 | 93.6 | 74.0-130 | | | 3.48 | 20 |
| tert-Butylbenzene | 0.125 | 0.116 | 0.119 | 92.8 | 95.2 | 75.0-127 | | | 2.55 | 20 |
| Carbon tetrachloride | 0.125 | 0.133 | 0.135 | 106 | 108 | 66.0-128 | | | 1.49 | 20 |
| Chlorobenzene | 0.125 | 0.116 | 0.118 | 92.8 | 94.4 | 76.0-128 | | | 1.71 | 20 |
| Chlorodibromomethane | 0.125 | 0.122 | 0.119 | 97.6 | 95.2 | 74.0-127 | | | 2.49 | 20 |
| Chloroethane | 0.125 | 0.101 | 0.103 | 80.8 | 82.4 | 61.0-134 | | | 1.96 | 20 |
| Chloroform | 0.125 | 0.116 | 0.122 | 92.8 | 97.6 | 72.0-123 | | | 5.04 | 20 |
| Chloromethane | 0.125 | 0.0944 | 0.102 | 75.5 | 81.6 | 51.0-138 | | | 7.74 | 20 |
| 2-Chlorotoluene | 0.125 | 0.115 | 0.108 | 92.0 | 86.4 | 75.0-124 | | | 6.28 | 20 |
| 4-Chlorotoluene | 0.125 | 0.114 | 0.118 | 91.2 | 94.4 | 75.0-124 | | | 3.45 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.110 | 0.103 | 88.0 | 82.4 | 59.0-130 | | | 6.57 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.121 | 0.120 | 96.8 | 96.0 | 74.0-128 | | | 0.830 | 20 |
| Dibromomethane | 0.125 | 0.123 | 0.129 | 98.4 | 103 | 75.0-122 | | | 4.76 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.118 | 0.121 | 94.4 | 96.8 | 76.0-124 | | | 2.51 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.112 | 0.116 | 89.6 | 92.8 | 76.0-125 | | | 3.51 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.115 | 0.118 | 92.0 | 94.4 | 77.0-121 | | | 2.58 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.0930 | 0.0948 | 74.4 | 75.8 | 43.0-156 | | | 1.92 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.112 | 0.117 | 89.6 | 93.6 | 70.0-127 | | | 4.37 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.122 | 0.126 | 97.6 | 101 | 65.0-131 | | | 3.23 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.121 | 0.130 | 96.8 | 104 | 65.0-131 | | | 7.17 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.120 | 0.122 | 96.0 | 97.6 | 73.0-125 | | | 1.65 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.115 | 0.120 | 92.0 | 96.0 | 71.0-125 | | | 4.26 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.112 | 0.114 | 89.6 | 91.2 | 74.0-125 | | | 1.77 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.115 | 0.125 | 92.0 | 100 | 73.0-125 | | | 8.33 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.118 | 0.117 | 94.4 | 93.6 | 80.0-125 | | | 0.851 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.115 | 0.117 | 92.0 | 93.6 | 76.0-127 | | | 1.72 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.118 | 0.119 | 94.4 | 95.2 | 73.0-127 | | | 0.844 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.126 | 0.123 | 101 | 98.4 | 59.0-135 | | | 2.41 | 20 |
| Di-isopropyl ether | 0.125 | 0.127 | 0.125 | 102 | 100 | 60.0-136 | | | 1.59 | 20 |
| Ethylbenzene | 0.125 | 0.118 | 0.120 | 94.4 | 96.0 | 74.0-126 | | | 1.68 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.120 | 0.123 | 96.0 | 98.4 | 57.0-150 | | | 2.47 | 20 |
| Isopropylbenzene | 0.125 | 0.117 | 0.118 | 93.6 | 94.4 | 72.0-127 | | | 0.851 | 20 |
| p-Isopropyltoluene | 0.125 | 0.112 | 0.115 | 89.6 | 92.0 | 72.0-133 | | | 2.64 | 20 |
| 2-Butanone (MEK) | 0.625 | 0.758 | 0.627 | 121 | 100 | 30.0-160 | | | 18.9 | 24 |
| Methylene Chloride | 0.125 | 0.111 | 0.112 | 88.8 | 89.6 | 68.0-123 | | | 0.897 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.648 | 0.613 | 104 | 98.1 | 56.0-143 | | | 5.55 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.126 | 0.119 | 101 | 95.2 | 66.0-132 | | | 5.71 | 20 |
| n-Propylbenzene | 0.125 | 0.117 | 0.121 | 93.6 | 96.8 | 74.0-126 | | | 3.36 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4227242-1 06/07/25 11:07 • (LCSD) R4227242-2 06/07/25 11:26

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Styrene | 0.125 | 0.115 | 0.114 | 92.0 | 91.2 | 72.0-127 | | | 0.873 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.114 | 0.107 | 91.2 | 85.6 | 74.0-129 | | | 6.33 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.114 | 0.110 | 91.2 | 88.0 | 68.0-128 | | | 3.57 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.125 | 0.130 | 100 | 104 | 61.0-139 | | | 3.92 | 20 |
| Tetrachloroethene | 0.125 | 0.129 | 0.133 | 103 | 106 | 70.0-136 | | | 3.05 | 20 |
| Toluene | 0.125 | 0.117 | 0.118 | 93.6 | 94.4 | 75.0-121 | | | 0.851 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.124 | 0.126 | 99.2 | 101 | 59.0-139 | | | 1.60 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.120 | 0.125 | 96.0 | 100 | 62.0-137 | | | 4.08 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.130 | 0.134 | 104 | 107 | 69.0-126 | | | 3.03 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.116 | 0.111 | 92.8 | 88.8 | 78.0-123 | | | 4.41 | 20 |
| Trichloroethene | 0.125 | 0.118 | 0.131 | 94.4 | 105 | 76.0-126 | | | 10.4 | 20 |
| Trichlorofluoromethane | 0.125 | 0.107 | 0.116 | 85.6 | 92.8 | 61.0-142 | | | 8.07 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.119 | 0.114 | 95.2 | 91.2 | 67.0-129 | | | 4.29 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.110 | 0.112 | 88.0 | 89.6 | 74.0-124 | | | 1.80 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.113 | 0.118 | 90.4 | 94.4 | 70.0-126 | | | 4.33 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.109 | 0.115 | 87.2 | 92.0 | 73.0-127 | | | 5.36 | 20 |
| Vinyl chloride | 0.125 | 0.0979 | 0.105 | 78.3 | 84.0 | 63.0-134 | | | 7.00 | 20 |
| Xylenes, Total | 0.375 | 0.354 | 0.362 | 94.4 | 96.5 | 72.0-127 | | | 2.23 | 20 |
| *(S) Toluene-d8* | | | | *99.9* | *97.8* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *101* | *98.6* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *109* | *110* | *70.0-130* | | | | |

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

## Method Blank (MB)

(MB) R4227514-1 06/07/25 21:55

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C10-C28 Diesel Range | U | | 1.61 | 4.00 |
| C28-C36 Motor Oil Range | U | | 0.274 | 4.00 |
| *(S) o-Terphenyl* | *69.5* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R4227514-2 06/07/25 22:09

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C10-C28 Diesel Range | 50.0 | 34.7 | 69.4 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *33.3* | *18.0-148* | |

## L1867312-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1867312-09 06/07/25 22:38 • (MS) R4227514-3 06/07/25 22:51 • (MSD) R4227514-4 06/07/25 23:05

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C10-C28 Diesel Range | 60.0 | ND | 37.8 | 37.2 | 63.0 | 61.6 | 1 | 50.0-150 | | | 1.63 | 20 |
| *(S) o-Terphenyl* | | | | | *70.4* | *65.8* | | *18.0-148* | | | | |

## Method Blank (MB)

(MB) R4227244-2 06/07/25 21:45

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthylene | U | | 0.00567 | 0.0333 |
| Benzidine | U | | 0.999 | 1.67 |
| Benzo(g,h,i)perylene | U | | 0.00644 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0361 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0629 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0326 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0475 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00496 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0475 | 0.333 |
| 1,2-Dichlorobenzene | U | | 0.0286 | 0.333 |
| 1,3-Dichlorobenzene | U | | 0.0290 | 0.333 |
| 1,4-Dichlorobenzene | U | | 0.0286 | 0.333 |
| 3,3-Dichlorobenzidine | U | | 0.127 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.0660 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0628 | 0.333 |
| Hexachlorobenzene | U | | 0.0544 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0528 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.102 | 0.333 |
| Hexachloroethane | U | | 0.0410 | 0.333 |
| Isophorone | U | | 0.0419 | 0.333 |
| Nitrobenzene | U | | 0.0450 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0782 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0427 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0528 | 0.333 |
| Phenanthrene | U | | 0.00366 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0645 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0657 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0448 | 0.333 |
| Diethyl phthalate | U | | 0.0516 | 0.333 |
| Dimethyl phthalate | U | | 0.0447 | 0.333 |
| Di-n-octyl phthalate | U | | 0.147 | 0.333 |
| 1,2,4-Trichlorobenzene | U | | 0.0395 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0520 | 0.333 |
| 2-Chlorophenol | U | | 0.0346 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.0439 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.0691 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.102 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.127 | 0.333 |
| 2-Nitrophenol | U | | 0.0494 | 0.333 |
| 4-Nitrophenol | U | | 0.106 | 0.333 |

## Method Blank (MB)

(MB) R4227244-2 06/07/25 21:45

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Pentachlorophenol | U | | 0.0623 | 0.333 |
| Phenol | U | | 0.0567 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0796 | 0.333 |
| *(S) 2-Fluorophenol* | *76.3* | | | *12.0-120* |
| *(S) Phenol-d5* | *64.6* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *67.0* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *73.9* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *101* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *84.1* | | | *10.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4227244-1 06/07/25 21:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthylene | 0.666 | 0.455 | 68.3 | 40.0-120 | |
| Benzidine | 1.33 | U | 0.000 | 10.0-120 | J4 |
| Benzo(g,h,i)perylene | 0.666 | 0.516 | 77.5 | 43.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.277 | 41.6 | 20.0-120 | |
| Bis(2-chloroethyl)ether | 0.666 | 0.256 | 38.4 | 16.0-120 | |
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.296 | 44.4 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.519 | 77.9 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.414 | 62.2 | 35.0-120 | |
| 4-Chlorophenyl-phenylether | 0.666 | 0.500 | 75.1 | 40.0-120 | |
| 1,2-Dichlorobenzene | 0.666 | 0.335 | 50.3 | 32.0-120 | |
| 1,3-Dichlorobenzene | 0.666 | 0.357 | 53.6 | 30.0-120 | |
| 1,4-Dichlorobenzene | 0.666 | 0.361 | 54.2 | 31.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 1.22 | 91.7 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.557 | 83.6 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.493 | 74.0 | 42.0-120 | |
| Hexachlorobenzene | 0.666 | 0.524 | 78.7 | 39.0-120 | |
| Hexachloro-1,3-butadiene | 0.666 | 0.386 | 58.0 | 15.0-120 | |
| Hexachlorocyclopentadiene | 0.666 | 0.393 | 59.0 | 15.0-120 | |
| Hexachloroethane | 0.666 | 0.323 | 48.5 | 17.0-120 | |
| Isophorone | 0.666 | 0.302 | 45.3 | 23.0-120 | |
| Nitrobenzene | 0.666 | 0.296 | 44.4 | 17.0-120 | |
| n-Nitrosodimethylamine | 0.666 | 0.613 | 92.0 | 10.0-125 | |
| n-Nitrosodiphenylamine | 0.666 | 0.477 | 71.6 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.242 | 36.3 | 26.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4227244-1 06/07/25 21:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Phenanthrene | 0.666 | 0.450 | 67.6 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.564 | 84.7 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.528 | 79.3 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.512 | 76.9 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.526 | 79.0 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.494 | 74.2 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.507 | 76.1 | 40.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.367 | 55.1 | 17.0-120 | |
| 4-Chloro-3-methylphenol | 0.666 | 0.342 | 51.4 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.335 | 50.3 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.395 | 59.3 | 25.0-120 | |
| 2,4-Dimethylphenol | 0.666 | 0.341 | 51.2 | 15.0-120 | |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.470 | 70.6 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.394 | 59.2 | 10.0-120 | |
| 2-Nitrophenol | 0.666 | 0.360 | 54.1 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.422 | 63.4 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.406 | 61.0 | 29.0-120 | |
| Phenol | 0.666 | 0.311 | 46.7 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.442 | 66.4 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *66.2* | *12.0-120* | |
| *(S) Phenol-d5* | | | *55.3* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *53.2* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *64.6* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *105* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *85.3* | *10.0-120* | |

## L1867312-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1867312-09 06/08/25 01:17 • (MS) R4227244-3 06/08/25 01:38 • (MSD) R4227244-4 06/08/25 01:59

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthylene | 0.800 | ND | 0.551 | 0.510 | 68.9 | 63.7 | 2 | 25.0-120 | | | 7.82 | 32 |
| Benzidine | 1.31 | ND | ND | ND | 0.000 | 0.000 | 2 | 10.0-120 | J6 | J6 | 0.000 | 40 |
| Benzo(g,h,i)perylene | 0.800 | ND | 0.544 | 0.545 | 68.0 | 68.1 | 2 | 10.0-120 | | | 0.224 | 33 |
| Bis(2-chlorethoxy)methane | 0.800 | ND | ND | ND | 44.2 | 43.4 | 2 | 10.0-120 | | | 1.74 | 34 |
| Bis(2-chloroethyl)ether | 0.800 | ND | ND | ND | 52.3 | 45.4 | 2 | 10.0-120 | | | 14.0 | 40 |
| 2,2-Oxybis(1-Chloropropane) | 0.800 | ND | ND | ND | 53.2 | 48.6 | 2 | 10.0-120 | | | 8.98 | 40 |
| 4-Bromophenyl-phenylether | 0.800 | ND | ND | ND | 70.7 | 64.3 | 2 | 27.0-120 | | | 9.48 | 30 |
| 2-Chloronaphthalene | 0.800 | ND | 0.494 | 0.490 | 61.7 | 61.3 | 2 | 20.0-120 | | | 0.743 | 32 |

## L1867312-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1867312-09 06/08/25 01:17 • (MS) R4227244-3 06/08/25 01:38 • (MSD) R4227244-4 06/08/25 01:59

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-Chlorophenyl-phenylether | 0.800 | ND | ND | ND | 72.1 | 65.5 | 2 | 24.0-120 | | | 9.52 | 29 |
| 1,2-Dichlorobenzene | 0.800 | ND | ND | ND | 58.4 | 55.5 | 2 | 10.0-120 | | | 5.09 | 38 |
| 1,3-Dichlorobenzene | 0.800 | ND | ND | ND | 51.8 | 47.9 | 2 | 10.0-120 | | | 7.95 | 40 |
| 1,4-Dichlorobenzene | 0.800 | ND | ND | ND | 59.3 | 50.6 | 2 | 10.0-120 | | | 15.8 | 39 |
| 3,3-Dichlorobenzidine | 1.60 | ND | 1.11 | 1.18 | 69.5 | 73.7 | 2 | 10.0-120 | | | 5.76 | 34 |
| 2,4-Dinitrotoluene | 0.800 | ND | ND | ND | 76.2 | 72.0 | 2 | 30.0-120 | | | 5.76 | 31 |
| 2,6-Dinitrotoluene | 0.800 | ND | ND | ND | 70.9 | 72.3 | 2 | 25.0-120 | | | 1.92 | 31 |
| Hexachlorobenzene | 0.800 | ND | ND | ND | 67.5 | 63.7 | 2 | 27.0-120 | | | 5.81 | 28 |
| Hexachloro-1,3-butadiene | 0.800 | ND | ND | ND | 59.5 | 59.3 | 2 | 10.0-120 | | | 0.257 | 38 |
| Hexachlorocyclopentadiene | 0.800 | ND | ND | ND | 0.000 | 0.000 | 2 | 10.0-120 | J6 | J6 | 0.000 | 40 |
| Hexachloroethane | 0.800 | ND | ND | ND | 38.6 | 34.3 | 2 | 10.0-120 | | | 11.7 | 40 |
| Isophorone | 0.800 | ND | ND | ND | 51.8 | 48.0 | 2 | 13.0-120 | | | 7.63 | 34 |
| Nitrobenzene | 0.800 | ND | ND | ND | 49.8 | 44.7 | 2 | 10.0-120 | | | 11.0 | 36 |
| n-Nitrosodimethylamine | 0.800 | ND | ND | ND | 74.7 | 59.1 | 2 | 10.0-127 | | | 23.2 | 40 |
| n-Nitrosodiphenylamine | 0.800 | ND | ND | ND | 65.9 | 61.7 | 2 | 17.0-120 | | | 6.45 | 29 |
| n-Nitrosodi-n-propylamine | 0.800 | ND | ND | ND | 50.5 | 43.6 | 2 | 10.0-120 | | | 14.6 | 37 |
| Phenanthrene | 0.800 | ND | 0.506 | 0.467 | 63.3 | 58.4 | 2 | 17.0-120 | | | 8.02 | 31 |
| Benzylbutyl phthalate | 0.800 | ND | ND | ND | 72.7 | 76.1 | 2 | 23.0-120 | | | 4.51 | 30 |
| Bis(2-ethylhexyl)phthalate | 0.800 | ND | ND | ND | 72.7 | 77.1 | 2 | 17.0-126 | | | 5.90 | 30 |
| Di-n-butyl phthalate | 0.800 | ND | ND | ND | 71.2 | 68.6 | 2 | 30.0-120 | | | 3.71 | 29 |
| Diethyl phthalate | 0.800 | ND | ND | ND | 66.6 | 63.3 | 2 | 26.0-120 | | | 5.16 | 28 |
| Dimethyl phthalate | 0.800 | ND | ND | ND | 68.6 | 66.2 | 2 | 25.0-120 | | | 3.62 | 29 |
| Di-n-octyl phthalate | 0.800 | ND | ND | ND | 74.8 | 75.8 | 2 | 21.0-123 | | | 1.21 | 29 |
| 1,2,4-Trichlorobenzene | 0.800 | ND | ND | ND | 58.7 | 55.8 | 2 | 12.0-120 | | | 5.06 | 37 |
| 4-Chloro-3-methylphenol | 0.800 | ND | ND | ND | 56.6 | 54.1 | 2 | 15.0-120 | | | 4.41 | 30 |
| 2-Chlorophenol | 0.800 | ND | ND | ND | 56.6 | 55.8 | 2 | 15.0-120 | | | 1.36 | 37 |
| 2,4-Dichlorophenol | 0.800 | ND | ND | ND | 63.4 | 57.9 | 2 | 20.0-120 | | | 9.05 | 31 |
| 2,4-Dimethylphenol | 0.800 | ND | ND | ND | 52.4 | 48.5 | 2 | 10.0-120 | | | 7.85 | 33 |
| 4,6-Dinitro-2-methylphenol | 0.800 | ND | ND | ND | 51.8 | 61.3 | 2 | 10.0-120 | | | 16.7 | 39 |
| 2,4-Dinitrophenol | 0.800 | ND | ND | ND | 0.000 | 0.000 | 2 | 10.0-121 | J6 | J6 | 0.000 | 40 |
| 2-Nitrophenol | 0.800 | ND | ND | ND | 66.0 | 59.8 | 2 | 12.0-120 | | | 9.94 | 39 |
| 4-Nitrophenol | 0.800 | ND | ND | ND | 70.1 | 67.5 | 2 | 10.0-137 | | | 3.77 | 32 |
| Pentachlorophenol | 0.800 | ND | ND | ND | 59.5 | 59.5 | 2 | 10.0-160 | | | 0.000 | 31 |
| Phenol | 0.800 | ND | ND | ND | 50.6 | 46.5 | 2 | 12.0-120 | | | 8.48 | 38 |
| 2,4,6-Trichlorophenol | 0.800 | ND | ND | ND | 65.7 | 61.9 | 2 | 19.0-120 | | | 5.97 | 32 |
| *(S) 2-Fluorophenol* | | | | | *68.0* | *62.3* | | *12.0-120* | | | | |
| *(S) Phenol-d5* | | | | | *57.4* | *54.2* | | *10.0-120* | | | | |
| *(S) Nitrobenzene-d5* | | | | | *53.4* | *44.8* | | *10.0-122* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *68.9* | *65.5* | | *15.0-120* | | | | |

## L1867312-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1867312-09 06/08/25 01:17 • (MS) R4227244-3 06/08/25 01:38 • (MSD) R4227244-4 06/08/25 01:59

| Analyte | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| *(S) 2,4,6-Tribromophenol* | | | | | *85.1* | *76.7* | | *10.0-127* | | | | |
| *(S) p-Terphenyl-d14* | | | | | *68.6* | *74.4* | | *10.0-120* | | | | |

Sample Narrative:

OS: Dilution due to matrix impact during extract concentration procedure

## Method Blank (MB)

(MB) R4227419-2 06/07/25 20:18

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Anthracene | U | | 0.0330 | 0.0330 |
| Acenaphthene | U | | 0.0330 | 0.0330 |
| Acenaphthylene | U | | 0.0330 | 0.0330 |
| Benzo(a)anthracene | U | | 0.00600 | 0.00600 |
| Benzo(a)pyrene | U | | 0.0330 | 0.0330 |
| Benzo(b)fluoranthene | U | | 0.0330 | 0.0330 |
| Benzo(g,h,i)perylene | U | | 0.0330 | 0.0330 |
| Benzo(k)fluoranthene | U | | 0.0330 | 0.0330 |
| Chrysene | U | | 0.0330 | 0.0330 |
| Dibenz(a,h)anthracene | U | | 0.0330 | 0.0330 |
| Fluoranthene | U | | 0.0330 | 0.0330 |
| Fluorene | U | | 0.0330 | 0.0330 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0330 | 0.0330 |
| Naphthalene | U | | 0.00300 | 0.00300 |
| Phenanthrene | U | | 0.0330 | 0.0330 |
| Pyrene | U | | 0.0330 | 0.0330 |
| 1-Methylnaphthalene | U | | 0.00300 | 0.00300 |
| 2-Methylnaphthalene | U | | 0.0120 | 0.0120 |
| *(S) p-Terphenyl-d14* | *112* | | | *23.0-120* |
| *(S) Nitrobenzene-d5* | *97.1* | | | *14.0-149* |
| *(S) 2-Fluorobiphenyl* | *102* | | | *34.0-125* |

## Laboratory Control Sample (LCS)

(LCS) R4227419-1 06/07/25 20:00

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Anthracene | 0.0800 | 0.0685 | 85.6 | 50.0-126 | |
| Acenaphthene | 0.0800 | 0.0656 | 82.0 | 50.0-120 | |
| Acenaphthylene | 0.0800 | 0.0660 | 82.5 | 50.0-120 | |
| Benzo(a)anthracene | 0.0800 | 0.0706 | 88.3 | 45.0-120 | |
| Benzo(a)pyrene | 0.0800 | 0.0611 | 76.4 | 42.0-120 | |
| Benzo(b)fluoranthene | 0.0800 | 0.0770 | 96.3 | 42.0-121 | |
| Benzo(g,h,i)perylene | 0.0800 | 0.0813 | 102 | 45.0-125 | |
| Benzo(k)fluoranthene | 0.0800 | 0.0762 | 95.3 | 49.0-125 | |
| Chrysene | 0.0800 | 0.0748 | 93.5 | 49.0-122 | |
| Dibenz(a,h)anthracene | 0.0800 | 0.0841 | 105 | 47.0-125 | |
| Fluoranthene | 0.0800 | 0.0741 | 92.6 | 49.0-129 | |
| Fluorene | 0.0800 | 0.0726 | 90.8 | 49.0-120 | |

## Laboratory Control Sample (LCS)

(LCS) R4227419-1 06/07/25 20:00

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Indeno(1,2,3-cd)pyrene | 0.0800 | 0.0767 | 95.9 | 46.0-125 | |
| Naphthalene | 0.0800 | 0.0676 | 84.5 | 50.0-120 | |
| Phenanthrene | 0.0800 | 0.0730 | 91.3 | 47.0-120 | |
| Pyrene | 0.0800 | 0.0728 | 91.0 | 43.0-123 | |
| 1-Methylnaphthalene | 0.0800 | 0.0705 | 88.1 | 51.0-121 | |
| 2-Methylnaphthalene | 0.0800 | 0.0686 | 85.8 | 50.0-120 | |
| *(S) p-Terphenyl-d14* | | | *115* | *23.0-120* | |
| *(S) Nitrobenzene-d5* | | | *116* | *14.0-149* | |
| *(S) 2-Fluorobiphenyl* | | | *109* | *34.0-125* | |

## L1867312-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1867312-09 06/07/25 22:59 • (MS) R4227419-3 06/07/25 23:16 • (MSD) R4227419-4 06/07/25 23:34

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Anthracene | 0.0922 | ND | 0.0531 | 0.0506 | 57.5 | 54.3 | 1 | 10.0-145 | | | 4.71 | 30 |
| Acenaphthene | 0.0922 | ND | 0.0515 | 0.0479 | 55.8 | 51.4 | 1 | 14.0-127 | | | 7.12 | 27 |
| Acenaphthylene | 0.0922 | ND | 0.0520 | 0.0479 | 56.3 | 51.4 | 1 | 21.0-124 | | | 8.06 | 25 |
| Benzo(a)anthracene | 0.0922 | ND | 0.0548 | 0.0520 | 59.4 | 55.8 | 1 | 10.0-139 | | | 5.26 | 30 |
| Benzo(a)pyrene | 0.0922 | ND | 0.0585 | 0.0562 | 63.5 | 60.3 | 1 | 10.0-141 | | | 4.04 | 31 |
| Benzo(b)fluoranthene | 0.0922 | ND | 0.0603 | 0.0579 | 65.3 | 62.2 | 1 | 10.0-140 | | | 3.92 | 36 |
| Benzo(g,h,i)perylene | 0.0922 | ND | 0.0659 | 0.0638 | 71.4 | 68.5 | 1 | 10.0-140 | | | 3.20 | 33 |
| Benzo(k)fluoranthene | 0.0922 | ND | 0.0623 | 0.0603 | 67.6 | 64.7 | 1 | 10.0-137 | | | 3.38 | 31 |
| Chrysene | 0.0922 | ND | 0.0653 | 0.0635 | 70.8 | 68.2 | 1 | 10.0-145 | | | 2.65 | 30 |
| Dibenz(a,h)anthracene | 0.0922 | ND | 0.0726 | 0.0706 | 78.7 | 75.8 | 1 | 10.0-132 | | | 2.73 | 31 |
| Fluoranthene | 0.0922 | ND | 0.0555 | 0.0520 | 60.2 | 55.8 | 1 | 10.0-153 | | | 6.58 | 33 |
| Fluorene | 0.0922 | ND | 0.0577 | 0.0567 | 62.6 | 60.9 | 1 | 11.0-130 | | | 1.71 | 29 |
| Indeno(1,2,3-cd)pyrene | 0.0922 | ND | 0.0593 | 0.0578 | 64.3 | 62.0 | 1 | 10.0-137 | | | 2.50 | 32 |
| Naphthalene | 0.0922 | ND | 0.0572 | 0.0555 | 62.0 | 59.6 | 1 | 10.0-135 | | | 3.03 | 27 |
| Phenanthrene | 0.0922 | ND | 0.0571 | 0.0540 | 61.9 | 58.0 | 1 | 10.0-144 | | | 5.49 | 31 |
| Pyrene | 0.0922 | ND | 0.0570 | 0.0533 | 61.8 | 57.2 | 1 | 10.0-148 | | | 6.64 | 35 |
| 1-Methylnaphthalene | 0.0922 | ND | 0.0557 | 0.0520 | 60.4 | 55.8 | 1 | 10.0-142 | | | 7.02 | 28 |
| 2-Methylnaphthalene | 0.0922 | ND | 0.0555 | 0.0531 | 60.2 | 56.9 | 1 | 10.0-137 | | | 4.49 | 28 |
| *(S) p-Terphenyl-d14* | | | | | *94.8* | *92.6* | | *23.0-120* | | | | |
| *(S) Nitrobenzene-d5* | | | | | *92.4* | *90.8* | | *14.0-149* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *82.2* | *78.3* | | *34.0-125* | | | | |

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

| | |
|---|---|
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| MDA | Minimum Detectable Activity. |
| MDL | Method Detection Limit. |
| ND | Not detected at the Reporting Limit (or MDL where applicable). |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| RER | Replicate Error Ratio. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| B | The same analyte is found in the associated blank. |
| C3 | The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable. |
| C7 | The initial calibration verification standard (SSCV) associated with this data responded high. |
| E | The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL). |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J3 | The associated batch QC was outside the established quality control range for precision. |

# GLOSSARY OF TERMS

| Qualifier | Description |
|---|---|
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| U | Below Detectable Limits: Indicates that the analyte was not detected. |
| V | The sample concentration is too high to evaluate accurate spike recoveries. |

# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LAO000356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Pace® Location Requested (City/State):

Pace National, 12065 Lebanon Road, Mt. Juliet, TN 37122

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

L1867310

Company Name: CTEH, LLC

Contact/Report To: Chevron-Bishop, Kyle Lawrence, Tami McMullin, Andy Henault, Eric Catlin, Madelyn Klinkerman

Street Address: 5120 North Shore Drive, North Little Rock, AR 72118

Phone #:

E-Mail: chevron_bishop@cteh.com; kylelawrence@cteh.com; tmcmullin@cteh.com; ahenault@cteh.com

Cc E-Mail: ecatlin@cteh.com; mklinkerman@cteh.com

Customer Project #: PROJ-054017

Invoice to: CTEH

Project Name: Bishop LOC

Invoice E-mail: ctehap@montrose-env.com

Site Collection Info/Facility ID (as applicable): Galeton, CO

Purchase Order # (if applicable):

Quote #:

Time Zone Collected: [ ] AK [ ] PT [ X ] MT [ ] CT [ ] ET

County / State origin of sample(s): CO

Data Deliverables: [ X ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ X ] Other 5 Day

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

| Customer Sample ID | Matrix * | Comp / Grab | Composite Start Date | Composite Start Time | Collected or Composite End Date | Collected or Composite End Time | # Cont. | Residual Chlorine Result | Residual Chlorine Units | VOCs 8260D; TPH-GRO/DRO/ORO 8015D | SVOCs 8270E; PAH 8270E SIM | Metals 6010D, 6020B, Cr6 7199 | Total N/TKN/N+N/NH3 EPA 350.1, 351.2, 9056A, SM 4500 Norg | TOC Walkley Black; pH 9045D/Sat. Paste; EC 9050A Mod | SAR USDA 20B; Hot Water Soluble Boron | Radionuclides (U, Ra 226, RA 228) 901.1 - Bag | VOCs 8260D | Sample Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Specify Container Size ** | | | 8oz | 8oz | 8oz | 8oz | 8oz | 8oz | 10 | 6 | |
| | | | | | | | Identify Container Preservative Type*** | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | |
| | | | | | | | Analysis Requested | | | | | | | | | | | |
| GAC00606T070S001 | SS | G | - | - | 6/6/2025 | 1155 | 5 | - | - | X | X | X | X | X | X | X | - | -01 |

Lab Use Only: Proj. Mgr: 546-Jared Starkey; AcctNum / Client ID: CTEHER; Table #: G115; Profile / T: T275920; Prelog / Bottle Ord. ID: P1156679

Identified for Preservation non-

Sample Receipt Checklist

| | | | |
|---|---|---|---|
| COC Seal Present/Intact: | Y N NP | If Applicable | |
| COC Signed/Accurate: | Y N | VOA Zero Headspace: | Y N |
| Bottles arrive intact: | Y N | Pres. Correct/Check: | Y N |
| Correct bottles used: | Y N | | |
| Sufficient volume sent: | Y N | Condition: NCF OK | |
| RA Screen <0.5 mR/hr: | Y N | TURN AROUND | |

Additional Instructions from Pace® : VOCs - full list including BTEX, 1,2,4-TMB, 1,3,5-TMB; SVOCs - full list plus PAHs Table 915-1, 1-methylnaphthalene, 2-methylnaphthalene; Metals by 6010D: Al, Sb, Be, Ca, Cr, Co, Fe, Mg, Mn, K, Na, Tl, V; Metals by 6020B: As, Ba, Cd, Cu, Pb, Ni, Se, Ag, Zn

Collected By: Printed Name M. Beck; Signature

Customer Remarks / Special Conditions / Possible Hazards:

| # Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C): | Corrected Temp. (°C): | [ ] On Ice |
|---|---|---|---|---|---|
| | | | | | |

| Relinquished by/Company: (Signature) | Date/Time: | Received by/Company: (Signature) | Date/Time: |
|---|---|---|---|
| CTEH | 6-6-25 1800 | Pace | 6-6-25 1800 |
| | | | 6/7/25 1015 |
| | | | |
| | | | |

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: 1 of 1

GAC00606T070S