# ANALYTICAL REPORT

February 27, 2024

Revised Report

## Oregon Dept. of Env. Quality - ODEQ

Sample Delivery Group: L1700818

Samples Received: 01/31/2024

Project Number:

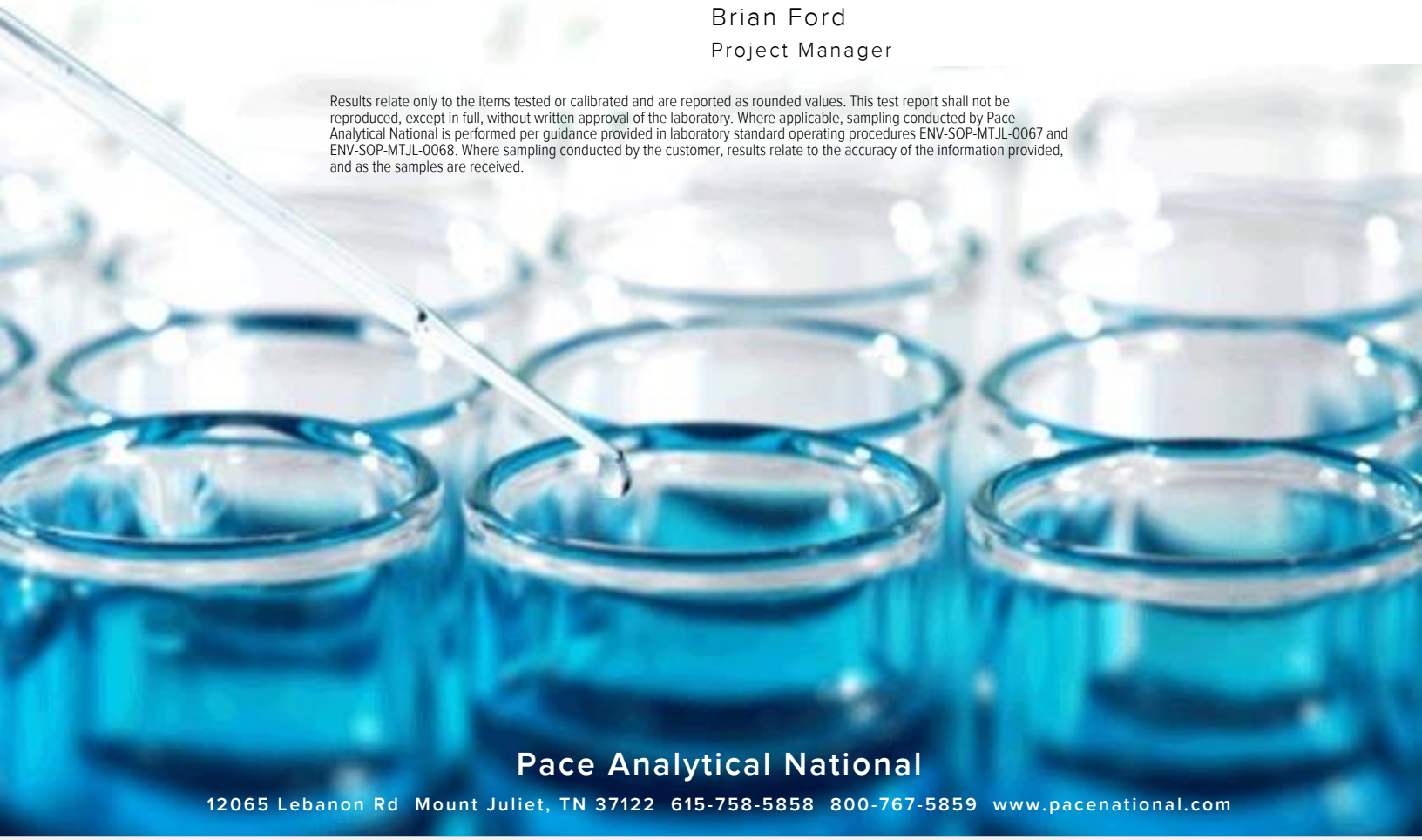
Description:

Report To: Ellen Woods
700 NE Multnomah St. #600
Portland, OR 97124

Entire Report Reviewed By:

Brian Ford
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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

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## P2-S3-D L1700818-01 Solid

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| | 01/29/24 11:11 | 01/31/24 09:30 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2217972 | 1 | 02/01/24 16:07 | 02/01/24 16:19 | CMB | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020B | WG2218078 | 5 | 02/01/24 14:20 | 02/02/24 16:25 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG2218691 | 25 | 01/29/24 11:11 | 02/04/24 01:30 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2218683 | 1 | 01/29/24 11:11 | 02/02/24 14:23 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2218102 | 1 | 02/01/24 17:19 | 02/02/24 02:39 | JAS | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM | WG2218419 | 1 | 02/02/24 09:44 | 02/06/24 02:56 | AGW | Mt. Juliet, TN |

## P2-D L1700818-03 GW

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| | 01/29/24 11:16 | 01/31/24 09:30 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Metals (ICPMS) by Method 6020B | WG2218077 | 1 | 02/06/24 08:25 | 02/06/24 13:20 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG2219559 | 1 | 02/04/24 18:01 | 02/04/24 18:01 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2217601 | 1 | 02/01/24 03:03 | 02/01/24 03:03 | DYW | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2218526 | 1.11 | 02/02/24 10:27 | 02/05/24 10:47 | MAA | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM | WG2217577 | 1 | 02/01/24 08:17 | 02/01/24 21:25 | AGW | Mt. Juliet, TN |

## RINSE L1700818-04 GW

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| | 01/29/24 15:10 | 01/31/24 09:30 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Metals (ICPMS) by Method 6020B | WG2218125 | 1 | 02/02/24 10:11 | 02/04/24 19:07 | LD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG2219559 | 1 | 02/04/24 18:25 | 02/04/24 18:25 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2217601 | 1 | 02/01/24 03:24 | 02/01/24 03:24 | DYW | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2218526 | 1 | 02/02/24 10:27 | 02/05/24 11:07 | MAA | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM | WG2217577 | 1 | 02/01/24 08:17 | 02/01/24 21:43 | AGW | Mt. Juliet, TN |

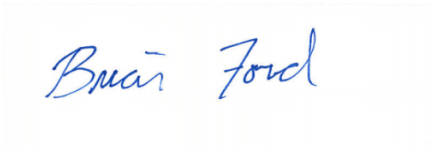
## IDW-W L1700818-06 GW

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| | 01/29/24 15:45 | 01/31/24 09:30 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Metals (ICPMS) by Method 6020B | WG2218125 | 1 | 02/02/24 10:11 | 02/04/24 19:49 | LD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method NWTPHGX | WG2219559 | 200 | 02/04/24 20:27 | 02/04/24 20:27 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260D | WG2217601 | 25 | 02/01/24 07:58 | 02/01/24 07:58 | DYW | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2218526 | 1.18 | 02/02/24 10:27 | 02/05/24 11:27 | MAA | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT | WG2218526 | 1.18 | 02/02/24 10:27 | 02/07/24 19:42 | TJD | Mt. Juliet, TN |

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. 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 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.



Brian Ford
Project Manager

## Report Revision History

Level II Report - Version 1: 02/08/24 16:11
Level II Report - Version 2: 02/20/24 17:39

## Project Narrative

Revision: Sample Id for P2-SM-D was changed to P2-S3-D per chain of custody.
Revision 2: Updated collection times to match COC.

## Sample Delivery Group (SDG) Narrative

**An aliquot for analysis was taken from the original container received due to the level of sediment present in the sample. Rinsing of the original sample container for inclusion in the sample extraction was not performed.**

| Lab Sample ID | Project Sample ID | Method |
|---|---|---|
| L1700818-06 | IDW-W | NWTPHDX-NO SGT |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 71.7 | | 1 | 02/01/2024 16:19 | WG2217972 |

## Metals (ICPMS) by Method 6020B

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Lead | 7.85 | | 0.138 | 2.79 | 5 | 02/02/2024 16:25 | WG2218078 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Gasoline Range Organics-NWTPH | 1.75 | J | 1.58 | 4.67 | 25 | 02/04/2024 01:30 | WG2218691 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *92.4* | | | *77.0-120* | | *02/04/2024 01:30* | WG2218691 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0681 | 0.0933 | 1 | 02/02/2024 14:23 | WG2218683 |
| Acrylonitrile | U | | 0.00674 | 0.0233 | 1 | 02/02/2024 14:23 | WG2218683 |
| Benzene | U | | 0.000872 | 0.00187 | 1 | 02/02/2024 14:23 | WG2218683 |
| Bromobenzene | U | | 0.00168 | 0.0233 | 1 | 02/02/2024 14:23 | WG2218683 |
| Bromodichloromethane | U | | 0.00135 | 0.00467 | 1 | 02/02/2024 14:23 | WG2218683 |
| Bromoform | U | | 0.00218 | 0.0467 | 1 | 02/02/2024 14:23 | WG2218683 |
| Bromomethane | U | | 0.00368 | 0.0233 | 1 | 02/02/2024 14:23 | WG2218683 |
| n-Butylbenzene | U | | 0.00980 | 0.0233 | 1 | 02/02/2024 14:23 | WG2218683 |
| sec-Butylbenzene | U | | 0.00538 | 0.0233 | 1 | 02/02/2024 14:23 | WG2218683 |
| tert-Butylbenzene | U | | 0.00364 | 0.00933 | 1 | 02/02/2024 14:23 | WG2218683 |
| Carbon disulfide | U | | 0.00131 | 0.0233 | 1 | 02/02/2024 14:23 | WG2218683 |
| Carbon tetrachloride | U | | 0.00168 | 0.00933 | 1 | 02/02/2024 14:23 | WG2218683 |
| Chlorobenzene | U | | 0.000392 | 0.00467 | 1 | 02/02/2024 14:23 | WG2218683 |
| Chlorodibromomethane | U | | 0.00114 | 0.00467 | 1 | 02/02/2024 14:23 | WG2218683 |
| Chloroethane | U | | 0.00317 | 0.00933 | 1 | 02/02/2024 14:23 | WG2218683 |
| Chloroform | 0.00282 | B J | 0.00192 | 0.00467 | 1 | 02/02/2024 14:23 | WG2218683 |
| Chloromethane | U | | 0.00812 | 0.0233 | 1 | 02/02/2024 14:23 | WG2218683 |
| 2-Chlorotoluene | U | | 0.00161 | 0.00467 | 1 | 02/02/2024 14:23 | WG2218683 |
| 4-Chlorotoluene | U | | 0.000840 | 0.00933 | 1 | 02/02/2024 14:23 | WG2218683 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00728 | 0.0467 | 1 | 02/02/2024 14:23 | WG2218683 |
| 1,2-Dibromoethane | U | | 0.00121 | 0.00467 | 1 | 02/02/2024 14:23 | WG2218683 |
| Dibromomethane | U | | 0.00140 | 0.00933 | 1 | 02/02/2024 14:23 | WG2218683 |
| 1,2-Dichlorobenzene | U | | 0.000793 | 0.00933 | 1 | 02/02/2024 14:23 | WG2218683 |
| 1,3-Dichlorobenzene | U | | 0.00112 | 0.00933 | 1 | 02/02/2024 14:23 | WG2218683 |
| 1,4-Dichlorobenzene | U | | 0.00131 | 0.00933 | 1 | 02/02/2024 14:23 | WG2218683 |
| Dichlorodifluoromethane | U | | 0.00301 | 0.00933 | 1 | 02/02/2024 14:23 | WG2218683 |
| 1,1-Dichloroethane | U | | 0.000917 | 0.00467 | 1 | 02/02/2024 14:23 | WG2218683 |
| 1,2-Dichloroethane | U | | 0.00121 | 0.00467 | 1 | 02/02/2024 14:23 | WG2218683 |
| 1,1-Dichloroethene | U | | 0.00113 | 0.00467 | 1 | 02/02/2024 14:23 | WG2218683 |
| cis-1,2-Dichloroethene | U | | 0.00137 | 0.00467 | 1 | 02/02/2024 14:23 | WG2218683 |
| trans-1,2-Dichloroethene | U | | 0.00194 | 0.00933 | 1 | 02/02/2024 14:23 | WG2218683 |
| 1,2-Dichloropropane | U | | 0.00265 | 0.00933 | 1 | 02/02/2024 14:23 | WG2218683 |
| 1,1-Dichloropropene | U | | 0.00151 | 0.00467 | 1 | 02/02/2024 14:23 | WG2218683 |
| 1,3-Dichloropropane | U | | 0.000935 | 0.00933 | 1 | 02/02/2024 14:23 | WG2218683 |
| cis-1,3-Dichloropropene | U | | 0.00141 | 0.00467 | 1 | 02/02/2024 14:23 | WG2218683 |
| trans-1,3-Dichloropropene | U | | 0.00213 | 0.00933 | 1 | 02/02/2024 14:23 | WG2218683 |
| 2,2-Dichloropropane | U | | 0.00258 | 0.00467 | 1 | 02/02/2024 14:23 | WG2218683 |
| Di-isopropyl ether | U | | 0.000765 | 0.00187 | 1 | 02/02/2024 14:23 | WG2218683 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Ethylbenzene | U | | 0.00138 | 0.00467 | 1 | 02/02/2024 14:23 | WG2218683 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.0467 | 1 | 02/02/2024 14:23 | WG2218683 |
| Isopropylbenzene | U | | 0.000793 | 0.00467 | 1 | 02/02/2024 14:23 | WG2218683 |
| p-Isopropyltoluene | U | | 0.00476 | 0.00933 | 1 | 02/02/2024 14:23 | WG2218683 |
| 2-Butanone (MEK) | U | | 0.119 | 0.187 | 1 | 02/02/2024 14:23 | WG2218683 |
| Methylene Chloride | 0.0148 | J | 0.0124 | 0.0467 | 1 | 02/02/2024 14:23 | WG2218683 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00426 | 0.0467 | 1 | 02/02/2024 14:23 | WG2218683 |
| Methyl tert-butyl ether | U | | 0.000653 | 0.00187 | 1 | 02/02/2024 14:23 | WG2218683 |
| Naphthalene | U | C3 | 0.00911 | 0.0233 | 1 | 02/02/2024 14:23 | WG2218683 |
| n-Propylbenzene | U | | 0.00177 | 0.00933 | 1 | 02/02/2024 14:23 | WG2218683 |
| Styrene | U | | 0.000427 | 0.0233 | 1 | 02/02/2024 14:23 | WG2218683 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00177 | 0.00467 | 1 | 02/02/2024 14:23 | WG2218683 |
| 1,1,2,2-Tetrachloroethane | U | | 0.00130 | 0.00467 | 1 | 02/02/2024 14:23 | WG2218683 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.00141 | 0.00467 | 1 | 02/02/2024 14:23 | WG2218683 |
| Tetrachloroethene | U | | 0.00167 | 0.00467 | 1 | 02/02/2024 14:23 | WG2218683 |
| Toluene | U | | 0.00243 | 0.00933 | 1 | 02/02/2024 14:23 | WG2218683 |
| 1,2,3-Trichlorobenzene | U | | 0.0137 | 0.0233 | 1 | 02/02/2024 14:23 | WG2218683 |
| 1,2,4-Trichlorobenzene | U | | 0.00821 | 0.0233 | 1 | 02/02/2024 14:23 | WG2218683 |
| 1,1,1-Trichloroethane | U | | 0.00172 | 0.00467 | 1 | 02/02/2024 14:23 | WG2218683 |
| 1,1,2-Trichloroethane | U | | 0.00111 | 0.00467 | 1 | 02/02/2024 14:23 | WG2218683 |
| Trichloroethene | U | | 0.00109 | 0.00187 | 1 | 02/02/2024 14:23 | WG2218683 |
| Trichlorofluoromethane | U | | 0.00154 | 0.00467 | 1 | 02/02/2024 14:23 | WG2218683 |
| 1,2,3-Trichloropropane | U | | 0.00302 | 0.0233 | 1 | 02/02/2024 14:23 | WG2218683 |
| 1,2,4-Trimethylbenzene | U | | 0.00295 | 0.00933 | 1 | 02/02/2024 14:23 | WG2218683 |
| 1,2,3-Trimethylbenzene | U | | 0.00295 | 0.00933 | 1 | 02/02/2024 14:23 | WG2218683 |
| 1,3,5-Trimethylbenzene | U | | 0.00373 | 0.00933 | 1 | 02/02/2024 14:23 | WG2218683 |
| Vinyl chloride | U | | 0.00217 | 0.00467 | 1 | 02/02/2024 14:23 | WG2218683 |
| Xylenes, Total | U | | 0.00164 | 0.0121 | 1 | 02/02/2024 14:23 | WG2218683 |
| *(S) Toluene-d8* | *112* | | | *75.0-131* | | *02/02/2024 14:23* | WG2218683 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *67.0-138* | | *02/02/2024 14:23* | WG2218683 |
| *(S) 1,2-Dichloroethane-d4* | *95.7* | | | *70.0-130* | | *02/02/2024 14:23* | WG2218683 |

## Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | U | | 1.85 | 5.58 | 1 | 02/02/2024 02:39 | WG2218102 |
| Residual Range Organics (RRO) | U | | 4.64 | 13.9 | 1 | 02/02/2024 02:39 | WG2218102 |
| *(S) o-Terphenyl* | *31.4* | | | *18.0-148* | | *02/02/2024 02:39* | WG2218102 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Anthracene | U | | 0.00321 | 0.00836 | 1 | 02/06/2024 02:56 | WG2218419 |
| Acenaphthene | U | | 0.00291 | 0.00836 | 1 | 02/06/2024 02:56 | WG2218419 |
| Acenaphthylene | U | | 0.00301 | 0.00836 | 1 | 02/06/2024 02:56 | WG2218419 |
| Benzo(a)anthracene | U | | 0.00241 | 0.00836 | 1 | 02/06/2024 02:56 | WG2218419 |
| Benzo(a)pyrene | U | | 0.00250 | 0.00836 | 1 | 02/06/2024 02:56 | WG2218419 |
| Benzo(b)fluoranthene | U | | 0.00213 | 0.00836 | 1 | 02/06/2024 02:56 | WG2218419 |
| Benzo(g,h,i)perylene | U | | 0.00247 | 0.00836 | 1 | 02/06/2024 02:56 | WG2218419 |
| Benzo(k)fluoranthene | U | | 0.00300 | 0.00836 | 1 | 02/06/2024 02:56 | WG2218419 |
| Chrysene | U | | 0.00323 | 0.00836 | 1 | 02/06/2024 02:56 | WG2218419 |
| Dibenz(a,h)anthracene | U | | 0.00240 | 0.00836 | 1 | 02/06/2024 02:56 | WG2218419 |
| Fluoranthene | U | | 0.00316 | 0.00836 | 1 | 02/06/2024 02:56 | WG2218419 |
| Fluorene | U | | 0.00286 | 0.00836 | 1 | 02/06/2024 02:56 | WG2218419 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00252 | 0.00836 | 1 | 02/06/2024 02:56 | WG2218419 |

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

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Naphthalene | U | | 0.00569 | 0.0279 | 1 | 02/06/2024 02:56 | WG2218419 |
| Phenanthrene | U | | 0.00322 | 0.00836 | 1 | 02/06/2024 02:56 | WG2218419 |
| Pyrene | U | | 0.00279 | 0.00836 | 1 | 02/06/2024 02:56 | WG2218419 |
| 1-Methylnaphthalene | U | | 0.00626 | 0.0279 | 1 | 02/06/2024 02:56 | WG2218419 |
| 2-Methylnaphthalene | U | | 0.00595 | 0.0279 | 1 | 02/06/2024 02:56 | WG2218419 |
| 2-Chloronaphthalene | U | | 0.00650 | 0.0279 | 1 | 02/06/2024 02:56 | WG2218419 |
| *(S) p-Terphenyl-d14* | *98.9* | | | *23.0-120* | | *02/06/2024 02:56* | WG2218419 |
| *(S) Nitrobenzene-d5* | *74.2* | | | *14.0-149* | | *02/06/2024 02:56* | WG2218419 |
| *(S) 2-Fluorobiphenyl* | *81.0* | | | *34.0-125* | | *02/06/2024 02:56* | WG2218419 |

## Metals (ICPMS) by Method 6020B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Lead,Dissolved | U | | 0.849 | 2.00 | 1 | 02/06/2024 13:20 | WG2218077 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 38.6 | B J | 31.6 | 100 | 1 | 02/04/2024 18:01 | WG2219559 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.8* | | | *78.0-120* | | *02/04/2024 18:01* | WG2219559 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 02/01/2024 03:03 | WG2217601 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 02/01/2024 03:03 | WG2217601 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 02/01/2024 03:03 | WG2217601 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| Carbon disulfide | U | | 0.0962 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 02/01/2024 03:03 | WG2217601 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 02/01/2024 03:03 | WG2217601 |
| Methylene Chloride | U | J4 | 0.430 | 5.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 02/01/2024 03:03 | WG2217601 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| Styrene | U | | 0.118 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| 1,1,2-Trichlorotrifluoroethane | U | J4 | 0.180 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| Toluene | U | | 0.278 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 02/01/2024 03:03 | WG2217601 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 02/01/2024 03:03 | WG2217601 |
| *(S) Toluene-d8* | *94.6* | | | *80.0-120* | | *02/01/2024 03:03* | WG2217601 |
| *(S) 4-Bromofluorobenzene* | *96.1* | | | *77.0-126* | | *02/01/2024 03:03* | WG2217601 |
| *(S) 1,2-Dichloroethane-d4* | *88.3* | | | *70.0-130* | | *02/01/2024 03:03* | WG2217601 |

## Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | U | | 37.0 | 111 | 1.11 | 02/05/2024 10:47 | WG2218526 |
| Residual Range Organics (RRO) | 96.3 | J | 92.5 | 278 | 1.11 | 02/05/2024 10:47 | WG2218526 |
| *(S) o-Terphenyl* | *83.8* | | | *31.0-160* | | *02/05/2024 10:47* | WG2218526 |

**Sample Narrative:**

L1700818-03 WG2218526: Dilution due to sample volume.

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Anthracene | U | | 0.0190 | 0.0500 | 1 | 02/01/2024 21:25 | WG2217577 |
| Acenaphthene | U | | 0.0190 | 0.0500 | 1 | 02/01/2024 21:25 | WG2217577 |
| Acenaphthylene | U | | 0.0171 | 0.0500 | 1 | 02/01/2024 21:25 | WG2217577 |
| Benzo(a)anthracene | U | | 0.0203 | 0.0500 | 1 | 02/01/2024 21:25 | WG2217577 |
| Benzo(a)pyrene | U | | 0.0184 | 0.0500 | 1 | 02/01/2024 21:25 | WG2217577 |
| Benzo(b)fluoranthene | U | | 0.0168 | 0.0500 | 1 | 02/01/2024 21:25 | WG2217577 |
| Benzo(g,h,i)perylene | U | | 0.0184 | 0.0500 | 1 | 02/01/2024 21:25 | WG2217577 |
| Benzo(k)fluoranthene | U | | 0.0202 | 0.0500 | 1 | 02/01/2024 21:25 | WG2217577 |
| Chrysene | U | | 0.0179 | 0.0500 | 1 | 02/01/2024 21:25 | WG2217577 |
| Dibenz(a,h)anthracene | U | | 0.0160 | 0.0500 | 1 | 02/01/2024 21:25 | WG2217577 |
| Fluoranthene | U | | 0.0270 | 0.100 | 1 | 02/01/2024 21:25 | WG2217577 |
| Fluorene | U | | 0.0169 | 0.0500 | 1 | 02/01/2024 21:25 | WG2217577 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0158 | 0.0500 | 1 | 02/01/2024 21:25 | WG2217577 |
| Naphthalene | U | | 0.0917 | 0.250 | 1 | 02/01/2024 21:25 | WG2217577 |

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

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Phenanthrene | U | | 0.0180 | 0.0500 | 1 | 02/01/2024 21:25 | WG2217577 |
| Pyrene | U | | 0.0169 | 0.0500 | 1 | 02/01/2024 21:25 | WG2217577 |
| 1-Methylnaphthalene | U | | 0.0687 | 0.250 | 1 | 02/01/2024 21:25 | WG2217577 |
| 2-Methylnaphthalene | U | | 0.0674 | 0.250 | 1 | 02/01/2024 21:25 | WG2217577 |
| 2-Chloronaphthalene | U | | 0.0682 | 0.250 | 1 | 02/01/2024 21:25 | WG2217577 |
| *(S) Nitrobenzene-d5* | *89.5* | | | *31.0-160* | | *02/01/2024 21:25* | WG2217577 |
| *(S) 2-Fluorobiphenyl* | *96.8* | | | *48.0-148* | | *02/01/2024 21:25* | WG2217577 |
| *(S) p-Terphenyl-d14* | *103* | | | *37.0-146* | | *02/01/2024 21:25* | WG2217577 |

## Metals (ICPMS) by Method 6020B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Lead | U | | 0.849 | 2.00 | 1 | 02/04/2024 19:07 | WG2218125 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | U | | 31.6 | 100 | 1 | 02/04/2024 18:25 | WG2219559 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.2* | | | *78.0-120* | | *02/04/2024 18:25* | WG2219559 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 | 1 | 02/01/2024 03:24 | WG2217601 |
| Acrolein | U | | 2.54 | 50.0 | 1 | 02/01/2024 03:24 | WG2217601 |
| Acrylonitrile | U | | 0.671 | 10.0 | 1 | 02/01/2024 03:24 | WG2217601 |
| Benzene | U | | 0.0941 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| Bromobenzene | U | | 0.118 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| Bromodichloromethane | U | | 0.136 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| Bromoform | U | | 0.129 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| Bromomethane | U | | 0.605 | 5.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| n-Butylbenzene | U | | 0.157 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| sec-Butylbenzene | U | | 0.125 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| tert-Butylbenzene | U | | 0.127 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| Carbon disulfide | U | | 0.0962 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| Carbon tetrachloride | U | | 0.128 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| Chlorobenzene | U | | 0.116 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| Chlorodibromomethane | U | | 0.140 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| Chloroethane | U | | 0.192 | 5.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| Chloroform | U | | 0.111 | 5.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| Chloromethane | U | | 0.960 | 2.50 | 1 | 02/01/2024 03:24 | WG2217601 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| Dibromomethane | U | | 0.122 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| Di-isopropyl ether | U | | 0.105 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| Ethylbenzene | U | | 0.137 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| Isopropylbenzene | U | | 0.105 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2-Butanone (MEK) | U | | 1.19 | 10.0 | 1 | 02/01/2024 03:24 | WG2217601 |
| Methylene Chloride | 0.494 | J J4 | 0.430 | 5.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 | 1 | 02/01/2024 03:24 | WG2217601 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| Naphthalene | U | | 1.00 | 5.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| n-Propylbenzene | U | | 0.0993 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| Styrene | U | | 0.118 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| 1,1,2-Trichlorotrifluoroethane | U | J4 | 0.180 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| Tetrachloroethene | U | | 0.300 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| Toluene | U | | 0.278 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| Trichloroethene | U | | 0.190 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 | 1 | 02/01/2024 03:24 | WG2217601 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| Vinyl chloride | U | | 0.234 | 1.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| Xylenes, Total | U | | 0.174 | 3.00 | 1 | 02/01/2024 03:24 | WG2217601 |
| *(S) Toluene-d8* | *94.5* | | | *80.0-120* | | *02/01/2024 03:24* | WG2217601 |
| *(S) 4-Bromofluorobenzene* | *96.5* | | | *77.0-126* | | *02/01/2024 03:24* | WG2217601 |
| *(S) 1,2-Dichloroethane-d4* | *87.6* | | | *70.0-130* | | *02/01/2024 03:24* | WG2217601 |

## Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 48.6 | J | 33.3 | 100 | 1 | 02/05/2024 11:07 | WG2218526 |
| Residual Range Organics (RRO) | U | | 83.3 | 250 | 1 | 02/05/2024 11:07 | WG2218526 |
| *(S) o-Terphenyl* | *73.7* | | | *31.0-160* | | *02/05/2024 11:07* | WG2218526 |

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Anthracene | U | | 0.0190 | 0.0500 | 1 | 02/01/2024 21:43 | WG2217577 |
| Acenaphthene | 0.0195 | J | 0.0190 | 0.0500 | 1 | 02/01/2024 21:43 | WG2217577 |
| Acenaphthylene | U | | 0.0171 | 0.0500 | 1 | 02/01/2024 21:43 | WG2217577 |
| Benzo(a)anthracene | U | | 0.0203 | 0.0500 | 1 | 02/01/2024 21:43 | WG2217577 |
| Benzo(a)pyrene | U | | 0.0184 | 0.0500 | 1 | 02/01/2024 21:43 | WG2217577 |
| Benzo(b)fluoranthene | U | | 0.0168 | 0.0500 | 1 | 02/01/2024 21:43 | WG2217577 |
| Benzo(g,h,i)perylene | U | | 0.0184 | 0.0500 | 1 | 02/01/2024 21:43 | WG2217577 |
| Benzo(k)fluoranthene | U | | 0.0202 | 0.0500 | 1 | 02/01/2024 21:43 | WG2217577 |
| Chrysene | U | | 0.0179 | 0.0500 | 1 | 02/01/2024 21:43 | WG2217577 |
| Dibenz(a,h)anthracene | U | | 0.0160 | 0.0500 | 1 | 02/01/2024 21:43 | WG2217577 |
| Fluoranthene | U | | 0.0270 | 0.100 | 1 | 02/01/2024 21:43 | WG2217577 |
| Fluorene | U | | 0.0169 | 0.0500 | 1 | 02/01/2024 21:43 | WG2217577 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0158 | 0.0500 | 1 | 02/01/2024 21:43 | WG2217577 |
| Naphthalene | U | | 0.0917 | 0.250 | 1 | 02/01/2024 21:43 | WG2217577 |
| Phenanthrene | U | | 0.0180 | 0.0500 | 1 | 02/01/2024 21:43 | WG2217577 |
| Pyrene | U | | 0.0169 | 0.0500 | 1 | 02/01/2024 21:43 | WG2217577 |
| 1-Methylnaphthalene | U | | 0.0687 | 0.250 | 1 | 02/01/2024 21:43 | WG2217577 |

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

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| 2-Methylnaphthalene | U | | 0.0674 | 0.250 | 1 | 02/01/2024 21:43 | WG2217577 |
| 2-Chloronaphthalene | U | | 0.0682 | 0.250 | 1 | 02/01/2024 21:43 | WG2217577 |
| *(S) Nitrobenzene-d5* | *93.2* | | | *31.0-160* | | *02/01/2024 21:43* | WG2217577 |
| *(S) 2-Fluorobiphenyl* | *98.4* | | | *48.0-148* | | *02/01/2024 21:43* | WG2217577 |
| *(S) p-Terphenyl-d14* | *102* | | | *37.0-146* | | *02/01/2024 21:43* | WG2217577 |

## Metals (ICPMS) by Method 6020B

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Lead | 8.87 | | 0.849 | 2.00 | 1 | 02/04/2024 19:49 | WG2218125 |

## Volatile Organic Compounds (GC) by Method NWTPHGX

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | U | | 6320 | 20000 | 200 | 02/04/2024 20:27 | WG2219559 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *93.2* | | | *78.0-120* | | *02/04/2024 20:27* | WG2219559 |

**Sample Narrative:**

L1700818-06 WG2219559: Dilution due to foam.

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

| Analyte | Result ug/l | Qualifier | MDL ug/l | RDL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acetone | U | | 282 | 1250 | 25 | 02/01/2024 07:58 | WG2217601 |
| Acrolein | U | | 63.5 | 1250 | 25 | 02/01/2024 07:58 | WG2217601 |
| Acrylonitrile | U | | 16.8 | 250 | 25 | 02/01/2024 07:58 | WG2217601 |
| Benzene | U | | 2.35 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| Bromobenzene | U | | 2.95 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| Bromodichloromethane | U | | 3.40 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| Bromoform | U | | 3.22 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| Bromomethane | U | | 15.1 | 125 | 25 | 02/01/2024 07:58 | WG2217601 |
| n-Butylbenzene | U | | 3.93 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| sec-Butylbenzene | U | | 3.13 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| tert-Butylbenzene | U | | 3.18 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| Carbon disulfide | U | | 2.41 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| Carbon tetrachloride | U | | 3.20 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| Chlorobenzene | U | | 2.90 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| Chlorodibromomethane | U | | 3.50 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| Chloroethane | U | | 4.80 | 125 | 25 | 02/01/2024 07:58 | WG2217601 |
| Chloroform | U | | 2.78 | 125 | 25 | 02/01/2024 07:58 | WG2217601 |
| Chloromethane | U | | 24.0 | 62.5 | 25 | 02/01/2024 07:58 | WG2217601 |
| 2-Chlorotoluene | U | | 2.65 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| 4-Chlorotoluene | U | | 2.85 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| 1,2-Dibromo-3-Chloropropane | U | | 6.90 | 125 | 25 | 02/01/2024 07:58 | WG2217601 |
| 1,2-Dibromoethane | U | | 3.15 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| Dibromomethane | U | | 3.05 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| 1,2-Dichlorobenzene | U | | 2.68 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| 1,3-Dichlorobenzene | U | | 2.75 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| 1,4-Dichlorobenzene | U | | 3.00 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| Dichlorodifluoromethane | U | | 9.35 | 125 | 25 | 02/01/2024 07:58 | WG2217601 |
| 1,1-Dichloroethane | U | | 2.50 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| 1,2-Dichloroethane | U | | 2.05 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| 1,1-Dichloroethene | U | | 4.70 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| cis-1,2-Dichloroethene | U | | 3.15 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| trans-1,2-Dichloroethene | U | | 3.73 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| 1,2-Dichloropropane | U | | 3.73 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| 1,1-Dichloropropene | U | | 3.55 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| 1,3-Dichloropropane | U | | 2.75 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| cis-1,3-Dichloropropene | U | | 2.78 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| trans-1,3-Dichloropropene | U | | 2.95 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| 2,2-Dichloropropane | U | | 4.03 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| Di-isopropyl ether | U | | 2.63 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| Ethylbenzene | U | | 3.43 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |

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

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Hexachloro-1,3-butadiene | U | | 8.43 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| Isopropylbenzene | U | | 2.63 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| p-Isopropyltoluene | U | | 3.00 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| 2-Butanone (MEK) | U | | 29.8 | 250 | 25 | 02/01/2024 07:58 | WG2217601 |
| Methylene Chloride | U | J4 | 10.7 | 125 | 25 | 02/01/2024 07:58 | WG2217601 |
| 4-Methyl-2-pentanone (MIBK) | U | | 12.0 | 250 | 25 | 02/01/2024 07:58 | WG2217601 |
| Methyl tert-butyl ether | U | | 2.53 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| Naphthalene | U | | 25.0 | 125 | 25 | 02/01/2024 07:58 | WG2217601 |
| n-Propylbenzene | U | | 2.48 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| Styrene | U | | 2.95 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| 1,1,1,2-Tetrachloroethane | U | | 3.68 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| 1,1,2,2-Tetrachloroethane | U | | 3.33 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| 1,1,2-Trichlorotrifluoroethane | U | J4 | 4.50 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| Tetrachloroethene | U | | 7.50 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| Toluene | U | | 6.95 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| 1,2,3-Trichlorobenzene | U | | 5.75 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| 1,2,4-Trichlorobenzene | U | | 12.0 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| 1,1,1-Trichloroethane | U | | 3.73 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| 1,1,2-Trichloroethane | U | | 3.95 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| Trichloroethene | U | | 4.75 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| Trichlorofluoromethane | U | | 4.00 | 125 | 25 | 02/01/2024 07:58 | WG2217601 |
| 1,2,3-Trichloropropane | U | | 5.93 | 62.5 | 25 | 02/01/2024 07:58 | WG2217601 |
| 1,2,4-Trimethylbenzene | U | | 8.05 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| 1,2,3-Trimethylbenzene | U | | 2.60 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| 1,3,5-Trimethylbenzene | U | | 2.60 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| Vinyl chloride | U | | 5.85 | 25.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| Xylenes, Total | U | | 4.35 | 75.0 | 25 | 02/01/2024 07:58 | WG2217601 |
| *(S) Toluene-d8* | *93.4* | | | *80.0-120* | | *02/01/2024 07:58* | WG2217601 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *77.0-126* | | *02/01/2024 07:58* | WG2217601 |
| *(S) 1,2-Dichloroethane-d4* | *91.9* | | | *70.0-130* | | *02/01/2024 07:58* | WG2217601 |

Sample Narrative:

L1700818-06 WG2217601: Dilution due to foam.

## Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

| Analyte | Result | Qualifier | MDL | RDL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | ug/l | | ug/l | ug/l | | date / time | |
| Diesel Range Organics (DRO) | 867 | | 39.3 | 118 | 1.18 | 02/05/2024 11:27 | WG2218526 |
| Residual Range Organics (RRO) | 1260 | | 98.3 | 295 | 1.18 | 02/07/2024 19:42 | WG2218526 |
| *(S) o-Terphenyl* | *80.4* | | | *31.0-160* | | *02/05/2024 11:27* | WG2218526 |
| *(S) o-Terphenyl* | *90.6* | | | *31.0-160* | | *02/07/2024 19:42* | WG2218526 |

Sample Narrative:

L1700818-06 WG2218526: Sample does not resemble laboratory standards.

## Method Blank (MB)

(MB) R4029128-1 02/01/24 16:19

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00100 | | | |

## L1700808-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1700808-07 02/01/24 16:19 • (DUP) R4029128-3 02/01/24 16:19

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 76.0 | 77.5 | 1 | 1.85 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4029128-2 02/01/24 16:19

| 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) R4030312-1 02/06/24 12:54

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Lead,Dissolved | U | | 0.849 | 2.00 |

## Laboratory Control Sample (LCS)

(LCS) R4030312-2 02/06/24 12:57

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Lead,Dissolved | 50.0 | 49.6 | 99.2 | 80.0-120 | |

## L1700481-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1700481-03 02/06/24 13:01 • (MS) R4030312-4 02/06/24 13:07 • (MSD) R4030312-5 02/06/24 13:10

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead,Dissolved | 50.0 | U | 46.8 | 47.1 | 93.5 | 94.2 | 1 | 75.0-125 | | | 0.707 | 20 |

## Method Blank (MB)

(MB) R4029652-1 02/04/24 18:48

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Lead | U | | 0.849 | 2.00 |

## Laboratory Control Sample (LCS)

(LCS) R4029652-2 02/04/24 18:51

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Lead | 50.0 | 51.0 | 102 | 80.0-120 | |

## L1701034-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1701034-01 02/04/24 18:54 • (MS) R4029652-4 02/04/24 19:01 • (MSD) R4029652-5 02/04/24 19:04

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 50.0 | U | 50.8 | 51.3 | 102 | 103 | 1 | 75.0-125 | | | 1.03 | 20 |

## Method Blank (MB)

(MB) R4029341-1 02/02/24 16:02

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Lead | U | | 0.0990 | 2.00 |

## Laboratory Control Sample (LCS)

(LCS) R4029341-2 02/02/24 16:05

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Lead | 100 | 81.6 | 81.6 | 80.0-120 | |

## L1700847-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1700847-01 02/02/24 16:08 • (MS) R4029341-5 02/02/24 16:18 • (MSD) R4029341-6 02/02/24 16:21

| 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 % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 100 | 5.41 | 106 | 105 | 100 | 99.9 | 5 | 75.0-125 | | | 0.265 | 20 |

## Method Blank (MB)

(MB) R4029947-3 02/03/24 21:29

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | U | | 0.848 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *92.5* | | | *77.0-120* |

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

(LCS) R4029947-1 02/03/24 20:12 • (LCSD) R4029947-2 02/03/24 20:32

| 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 % |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5.50 | 5.19 | 4.96 | 94.4 | 90.2 | 71.0-124 | | | 4.53 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *96.7* | *96.8* | *77.0-120* | | | | |

## L1700356-62 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1700356-62 02/03/24 23:34 • (MS) R4029947-4 02/04/24 06:00 • (MSD) R4029947-5 02/04/24 06:19

| 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 % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 180 | U | 117 | 151 | 64.8 | 83.6 | 25 | 50.0-150 | | | 25.4 | 27 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *96.6* | *99.4* | | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R4029991-2 02/04/24 12:04

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 64.6 | J | 31.6 | 100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.2* | | | *78.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R4029991-1 02/04/24 11:06

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5500 | 6090 | 111 | 70.0-124 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *98.4* | *78.0-120* | |

## L1699398-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1699398-05 02/04/24 12:42 • (MS) R4029991-3 02/04/24 20:52 • (MSD) R4029991-4 02/04/24 21:16

| Analyte | Spike Amount ug/l | Original Result ug/l | MS Result ug/l | MSD Result ug/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics-NWTPH | 5500 | U | 5780 | 5940 | 105 | 108 | 1 | 10.0-155 | | | 2.73 | 21 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *100* | *101* | | *78.0-120* | | | | |

## Method Blank (MB)

(MB) R4028971-3 02/01/24 00:37

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Acetone | U | | 11.3 | 50.0 |
| Acrolein | U | | 2.54 | 50.0 |
| Acrylonitrile | U | | 0.671 | 10.0 |
| Benzene | U | | 0.0941 | 1.00 |
| Bromobenzene | U | | 0.118 | 1.00 |
| Bromodichloromethane | U | | 0.136 | 1.00 |
| Bromoform | U | | 0.129 | 1.00 |
| Bromomethane | U | | 0.605 | 5.00 |
| n-Butylbenzene | U | | 0.157 | 1.00 |
| sec-Butylbenzene | U | | 0.125 | 1.00 |
| tert-Butylbenzene | U | | 0.127 | 1.00 |
| Carbon disulfide | U | | 0.0962 | 1.00 |
| Carbon tetrachloride | U | | 0.128 | 1.00 |
| Chlorobenzene | U | | 0.116 | 1.00 |
| Chlorodibromomethane | U | | 0.140 | 1.00 |
| Chloroethane | U | | 0.192 | 5.00 |
| Chloroform | U | | 0.111 | 5.00 |
| Chloromethane | U | | 0.960 | 2.50 |
| 2-Chlorotoluene | U | | 0.106 | 1.00 |
| 4-Chlorotoluene | U | | 0.114 | 1.00 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.276 | 5.00 |
| 1,2-Dibromoethane | U | | 0.126 | 1.00 |
| Dibromomethane | U | | 0.122 | 1.00 |
| 1,2-Dichlorobenzene | U | | 0.107 | 1.00 |
| 1,3-Dichlorobenzene | U | | 0.110 | 1.00 |
| 1,4-Dichlorobenzene | U | | 0.120 | 1.00 |
| Dichlorodifluoromethane | U | | 0.374 | 5.00 |
| 1,1-Dichloroethane | U | | 0.100 | 1.00 |
| 1,2-Dichloroethane | U | | 0.0819 | 1.00 |
| 1,1-Dichloroethene | U | | 0.188 | 1.00 |
| cis-1,2-Dichloroethene | U | | 0.126 | 1.00 |
| trans-1,2-Dichloroethene | U | | 0.149 | 1.00 |
| 1,2-Dichloropropane | U | | 0.149 | 1.00 |
| 1,1-Dichloropropene | U | | 0.142 | 1.00 |
| 1,3-Dichloropropane | U | | 0.110 | 1.00 |
| cis-1,3-Dichloropropene | U | | 0.111 | 1.00 |
| trans-1,3-Dichloropropene | U | | 0.118 | 1.00 |
| 2,2-Dichloropropane | U | | 0.161 | 1.00 |
| Di-isopropyl ether | U | | 0.105 | 1.00 |
| Ethylbenzene | U | | 0.137 | 1.00 |

## Method Blank (MB)

(MB) R4028971-3 02/01/24 00:37

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Hexachloro-1,3-butadiene | U | | 0.337 | 1.00 |
| Isopropylbenzene | U | | 0.105 | 1.00 |
| p-Isopropyltoluene | U | | 0.120 | 1.00 |
| 2-Butanone (MEK) | U | | 1.19 | 10.0 |
| Methylene Chloride | U | | 0.430 | 5.00 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.478 | 10.0 |
| Methyl tert-butyl ether | U | | 0.101 | 1.00 |
| Naphthalene | U | | 1.00 | 5.00 |
| n-Propylbenzene | U | | 0.0993 | 1.00 |
| Styrene | U | | 0.118 | 1.00 |
| 1,1,1,2-Tetrachloroethane | U | | 0.147 | 1.00 |
| 1,1,2,2-Tetrachloroethane | U | | 0.133 | 1.00 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.180 | 1.00 |
| Tetrachloroethene | U | | 0.300 | 1.00 |
| Toluene | U | | 0.278 | 1.00 |
| 1,2,3-Trichlorobenzene | U | | 0.230 | 1.00 |
| 1,2,4-Trichlorobenzene | U | | 0.481 | 1.00 |
| 1,1,1-Trichloroethane | U | | 0.149 | 1.00 |
| 1,1,2-Trichloroethane | U | | 0.158 | 1.00 |
| Trichloroethene | U | | 0.190 | 1.00 |
| Trichlorofluoromethane | U | | 0.160 | 5.00 |
| 1,2,3-Trichloropropane | U | | 0.237 | 2.50 |
| 1,2,4-Trimethylbenzene | U | | 0.322 | 1.00 |
| 1,2,3-Trimethylbenzene | U | | 0.104 | 1.00 |
| 1,3,5-Trimethylbenzene | U | | 0.104 | 1.00 |
| Vinyl chloride | U | | 0.234 | 1.00 |
| Xylenes, Total | U | | 0.174 | 3.00 |
| *(S) Toluene-d8* | *97.5* | | | *80.0-120* |
| *(S) 4-Bromofluorobenzene* | *98.2* | | | *77.0-126* |
| *(S) 1,2-Dichloroethane-d4* | *85.5* | | | *70.0-130* |

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

(LCS) R4028971-1 01/31/24 23:13 • (LCSD) R4028971-2 01/31/24 23:34

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 25.0 | 26.7 | 27.3 | 107 | 109 | 19.0-160 | | | 2.22 | 27 |
| Acrolein | 25.0 | 25.8 | 26.2 | 103 | 105 | 10.0-160 | | | 1.54 | 26 |
| Acrylonitrile | 25.0 | 29.5 | 30.4 | 118 | 122 | 55.0-149 | | | 3.01 | 20 |

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

(LCS) R4028971-1 01/31/24 23:13 • (LCSD) R4028971-2 01/31/24 23:34

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 5.00 | 5.94 | 5.70 | 119 | 114 | 70.0-123 | | | 4.12 | 20 |
| Bromobenzene | 5.00 | 4.82 | 4.85 | 96.4 | 97.0 | 73.0-121 | | | 0.620 | 20 |
| Bromodichloromethane | 5.00 | 5.56 | 5.48 | 111 | 110 | 75.0-120 | | | 1.45 | 20 |
| Bromoform | 5.00 | 5.17 | 4.97 | 103 | 99.4 | 68.0-132 | | | 3.94 | 20 |
| Bromomethane | 5.00 | 3.26 | 3.77 | 65.2 | 75.4 | 10.0-160 | | | 14.5 | 25 |
| n-Butylbenzene | 5.00 | 5.66 | 5.40 | 113 | 108 | 73.0-125 | | | 4.70 | 20 |
| sec-Butylbenzene | 5.00 | 5.16 | 5.04 | 103 | 101 | 75.0-125 | | | 2.35 | 20 |
| tert-Butylbenzene | 5.00 | 5.19 | 5.00 | 104 | 100 | 76.0-124 | | | 3.73 | 20 |
| Carbon disulfide | 5.00 | 6.24 | 6.03 | 125 | 121 | 61.0-128 | | | 3.42 | 20 |
| Carbon tetrachloride | 5.00 | 5.37 | 5.48 | 107 | 110 | 68.0-126 | | | 2.03 | 20 |
| Chlorobenzene | 5.00 | 5.43 | 5.14 | 109 | 103 | 80.0-121 | | | 5.49 | 20 |
| Chlorodibromomethane | 5.00 | 5.35 | 5.07 | 107 | 101 | 77.0-125 | | | 5.37 | 20 |
| Chloroethane | 5.00 | 6.02 | 7.11 | 120 | 142 | 47.0-150 | | | 16.6 | 20 |
| Chloroform | 5.00 | 5.47 | 5.32 | 109 | 106 | 73.0-120 | | | 2.78 | 20 |
| Chloromethane | 5.00 | 6.12 | 6.39 | 122 | 128 | 41.0-142 | | | 4.32 | 20 |
| 2-Chlorotoluene | 5.00 | 5.24 | 5.03 | 105 | 101 | 76.0-123 | | | 4.09 | 20 |
| 4-Chlorotoluene | 5.00 | 5.13 | 4.89 | 103 | 97.8 | 75.0-122 | | | 4.79 | 20 |
| 1,2-Dibromo-3-Chloropropane | 5.00 | 4.86 | 4.97 | 97.2 | 99.4 | 58.0-134 | | | 2.24 | 20 |
| 1,2-Dibromoethane | 5.00 | 5.21 | 5.19 | 104 | 104 | 80.0-122 | | | 0.385 | 20 |
| Dibromomethane | 5.00 | 5.47 | 5.25 | 109 | 105 | 80.0-120 | | | 4.10 | 20 |
| 1,2-Dichlorobenzene | 5.00 | 5.26 | 5.20 | 105 | 104 | 79.0-121 | | | 1.15 | 20 |
| 1,3-Dichlorobenzene | 5.00 | 5.21 | 5.18 | 104 | 104 | 79.0-120 | | | 0.577 | 20 |
| 1,4-Dichlorobenzene | 5.00 | 5.22 | 4.97 | 104 | 99.4 | 79.0-120 | | | 4.91 | 20 |
| Dichlorodifluoromethane | 5.00 | 5.56 | 5.82 | 111 | 116 | 51.0-149 | | | 4.57 | 20 |
| 1,1-Dichloroethane | 5.00 | 5.75 | 5.69 | 115 | 114 | 70.0-126 | | | 1.05 | 20 |
| 1,2-Dichloroethane | 5.00 | 5.03 | 5.19 | 101 | 104 | 70.0-128 | | | 3.13 | 20 |
| 1,1-Dichloroethene | 5.00 | 5.87 | 5.80 | 117 | 116 | 71.0-124 | | | 1.20 | 20 |
| cis-1,2-Dichloroethene | 5.00 | 5.69 | 5.71 | 114 | 114 | 73.0-120 | | | 0.351 | 20 |
| trans-1,2-Dichloroethene | 5.00 | 5.59 | 5.50 | 112 | 110 | 73.0-120 | | | 1.62 | 20 |
| 1,2-Dichloropropane | 5.00 | 6.10 | 5.75 | 122 | 115 | 77.0-125 | | | 5.91 | 20 |
| 1,1-Dichloropropene | 5.00 | 5.51 | 5.67 | 110 | 113 | 74.0-126 | | | 2.86 | 20 |
| 1,3-Dichloropropane | 5.00 | 5.22 | 5.18 | 104 | 104 | 80.0-120 | | | 0.769 | 20 |
| cis-1,3-Dichloropropene | 5.00 | 5.49 | 5.45 | 110 | 109 | 80.0-123 | | | 0.731 | 20 |
| trans-1,3-Dichloropropene | 5.00 | 5.30 | 5.14 | 106 | 103 | 78.0-124 | | | 3.07 | 20 |
| 2,2-Dichloropropane | 5.00 | 4.96 | 4.93 | 99.2 | 98.6 | 58.0-130 | | | 0.607 | 20 |
| Di-isopropyl ether | 5.00 | 5.74 | 5.73 | 115 | 115 | 58.0-138 | | | 0.174 | 20 |
| Ethylbenzene | 5.00 | 5.43 | 5.23 | 109 | 105 | 79.0-123 | | | 3.75 | 20 |
| Hexachloro-1,3-butadiene | 5.00 | 5.78 | 5.60 | 116 | 112 | 54.0-138 | | | 3.16 | 20 |
| Isopropylbenzene | 5.00 | 5.37 | 5.10 | 107 | 102 | 76.0-127 | | | 5.16 | 20 |
| p-Isopropyltoluene | 5.00 | 5.44 | 5.23 | 109 | 105 | 76.0-125 | | | 3.94 | 20 |

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

(LCS) R4028971-1 01/31/24 23:13 • (LCSD) R4028971-2 01/31/24 23:34

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone (MEK) | 25.0 | 27.8 | 28.8 | 111 | 115 | 44.0-160 | | | 3.53 | 20 |
| Methylene Chloride | 5.00 | 5.90 | 6.05 | 118 | 121 | 67.0-120 | | J4 | 2.51 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 25.0 | 27.1 | 26.5 | 108 | 106 | 68.0-142 | | | 2.24 | 20 |
| Methyl tert-butyl ether | 5.00 | 5.55 | 5.45 | 111 | 109 | 68.0-125 | | | 1.82 | 20 |
| Naphthalene | 5.00 | 4.70 | 4.95 | 94.0 | 99.0 | 54.0-135 | | | 5.18 | 20 |
| n-Propylbenzene | 5.00 | 5.01 | 4.86 | 100 | 97.2 | 77.0-124 | | | 3.04 | 20 |
| Styrene | 5.00 | 6.34 | 6.07 | 127 | 121 | 73.0-130 | | | 4.35 | 20 |
| 1,1,1,2-Tetrachloroethane | 5.00 | 5.06 | 5.03 | 101 | 101 | 75.0-125 | | | 0.595 | 20 |
| 1,1,2,2-Tetrachloroethane | 5.00 | 5.06 | 4.93 | 101 | 98.6 | 65.0-130 | | | 2.60 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 5.00 | 10.5 | 10.8 | 210 | 216 | 69.0-132 | J4 | J4 | 2.82 | 20 |
| Tetrachloroethene | 5.00 | 5.59 | 5.30 | 112 | 106 | 72.0-132 | | | 5.33 | 20 |
| Toluene | 5.00 | 5.31 | 5.08 | 106 | 102 | 79.0-120 | | | 4.43 | 20 |
| 1,2,3-Trichlorobenzene | 5.00 | 5.33 | 5.60 | 107 | 112 | 50.0-138 | | | 4.94 | 20 |
| 1,2,4-Trichlorobenzene | 5.00 | 5.35 | 5.14 | 107 | 103 | 57.0-137 | | | 4.00 | 20 |
| 1,1,1-Trichloroethane | 5.00 | 5.25 | 5.32 | 105 | 106 | 73.0-124 | | | 1.32 | 20 |
| 1,1,2-Trichloroethane | 5.00 | 5.39 | 5.10 | 108 | 102 | 80.0-120 | | | 5.53 | 20 |
| Trichloroethene | 5.00 | 5.62 | 5.49 | 112 | 110 | 78.0-124 | | | 2.34 | 20 |
| Trichlorofluoromethane | 5.00 | 5.38 | 5.55 | 108 | 111 | 59.0-147 | | | 3.11 | 20 |
| 1,2,3-Trichloropropane | 5.00 | 4.90 | 4.78 | 98.0 | 95.6 | 73.0-130 | | | 2.48 | 20 |
| 1,2,4-Trimethylbenzene | 5.00 | 5.31 | 5.17 | 106 | 103 | 76.0-121 | | | 2.67 | 20 |
| 1,2,3-Trimethylbenzene | 5.00 | 4.96 | 4.99 | 99.2 | 99.8 | 77.0-120 | | | 0.603 | 20 |
| 1,3,5-Trimethylbenzene | 5.00 | 5.14 | 5.07 | 103 | 101 | 76.0-122 | | | 1.37 | 20 |
| Vinyl chloride | 5.00 | 6.17 | 6.26 | 123 | 125 | 67.0-131 | | | 1.45 | 20 |
| Xylenes, Total | 15.0 | 16.4 | 15.6 | 109 | 104 | 79.0-123 | | | 5.00 | 20 |
| *(S) Toluene-d8* | | | | *93.3* | *91.7* | *80.0-120* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *96.3* | *96.9* | *77.0-126* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *85.4* | *88.7* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4030163-3 02/02/24 09:01

| 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 | | 0.000467 | 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 disulfide | U | | 0.000700 | 0.0125 |
| 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 | 0.00195 | J | 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 | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | 0.0127 | J | 0.00600 | 0.0250 |

## Method Blank (MB)

(MB) R4030163-3 02/02/24 09:01

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Isopropylbenzene | U | | 0.000425 | 0.00250 |
| 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 |
| Naphthalene | 0.00875 | J | 0.00488 | 0.0125 |
| 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 | | 0.00130 | 0.00500 |
| 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 |
| 1,2,4-Trimethylbenzene | 0.00258 | J | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *111* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *101* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *95.3* | | | *70.0-130* |

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

(LCS) R4030163-1 02/02/24 07:27 • (LCSD) R4030163-2 02/02/24 07:46

| 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 | 0.721 | 0.636 | 115 | 102 | 10.0-160 | | | 12.5 | 31 |
| Acrylonitrile | 0.625 | 0.693 | 0.710 | 111 | 114 | 45.0-153 | | | 2.42 | 22 |
| Benzene | 0.125 | 0.118 | 0.129 | 94.4 | 103 | 70.0-123 | | | 8.91 | 20 |
| Bromobenzene | 0.125 | 0.134 | 0.140 | 107 | 112 | 73.0-121 | | | 4.38 | 20 |

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

(LCS) R4030163-1 02/02/24 07:27 • (LCSD) R4030163-2 02/02/24 07:46

| 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 % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | 0.125 | 0.122 | 0.127 | 97.6 | 102 | 73.0-121 | | | 4.02 | 20 |
| Bromoform | 0.125 | 0.123 | 0.119 | 98.4 | 95.2 | 64.0-132 | | | 3.31 | 20 |
| Bromomethane | 0.125 | 0.105 | 0.123 | 84.0 | 98.4 | 56.0-147 | | | 15.8 | 20 |
| n-Butylbenzene | 0.125 | 0.107 | 0.110 | 85.6 | 88.0 | 68.0-135 | | | 2.76 | 20 |
| sec-Butylbenzene | 0.125 | 0.138 | 0.144 | 110 | 115 | 74.0-130 | | | 4.26 | 20 |
| tert-Butylbenzene | 0.125 | 0.134 | 0.143 | 107 | 114 | 75.0-127 | | | 6.50 | 20 |
| Carbon disulfide | 0.125 | 0.116 | 0.136 | 92.8 | 109 | 56.0-133 | | | 15.9 | 20 |
| Carbon tetrachloride | 0.125 | 0.112 | 0.124 | 89.6 | 99.2 | 66.0-128 | | | 10.2 | 20 |
| Chlorobenzene | 0.125 | 0.124 | 0.125 | 99.2 | 100 | 76.0-128 | | | 0.803 | 20 |
| Chlorodibromomethane | 0.125 | 0.131 | 0.134 | 105 | 107 | 74.0-127 | | | 2.26 | 20 |
| Chloroethane | 0.125 | 0.114 | 0.132 | 91.2 | 106 | 61.0-134 | | | 14.6 | 20 |
| Chloroform | 0.125 | 0.119 | 0.125 | 95.2 | 100 | 72.0-123 | | | 4.92 | 20 |
| Chloromethane | 0.125 | 0.111 | 0.131 | 88.8 | 105 | 51.0-138 | | | 16.5 | 20 |
| 2-Chlorotoluene | 0.125 | 0.129 | 0.134 | 103 | 107 | 75.0-124 | | | 3.80 | 20 |
| 4-Chlorotoluene | 0.125 | 0.133 | 0.147 | 106 | 118 | 75.0-124 | | | 10.0 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.106 | 0.104 | 84.8 | 83.2 | 59.0-130 | | | 1.90 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.141 | 0.136 | 113 | 109 | 74.0-128 | | | 3.61 | 20 |
| Dibromomethane | 0.125 | 0.121 | 0.127 | 96.8 | 102 | 75.0-122 | | | 4.84 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.127 | 0.128 | 102 | 102 | 76.0-124 | | | 0.784 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.132 | 0.136 | 106 | 109 | 76.0-125 | | | 2.99 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.120 | 0.124 | 96.0 | 99.2 | 77.0-121 | | | 3.28 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.108 | 0.127 | 86.4 | 102 | 43.0-156 | | | 16.2 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.120 | 0.131 | 96.0 | 105 | 70.0-127 | | | 8.76 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.118 | 0.126 | 94.4 | 101 | 65.0-131 | | | 6.56 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.130 | 0.145 | 104 | 116 | 65.0-131 | | | 10.9 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.113 | 0.122 | 90.4 | 97.6 | 73.0-125 | | | 7.66 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.122 | 0.137 | 97.6 | 110 | 71.0-125 | | | 11.6 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.130 | 0.137 | 104 | 110 | 74.0-125 | | | 5.24 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.130 | 0.142 | 104 | 114 | 73.0-125 | | | 8.82 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.142 | 0.140 | 114 | 112 | 80.0-125 | | | 1.42 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.127 | 0.130 | 102 | 104 | 76.0-127 | | | 2.33 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.136 | 0.140 | 109 | 112 | 73.0-127 | | | 2.90 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.118 | 0.134 | 94.4 | 107 | 59.0-135 | | | 12.7 | 20 |
| Di-isopropyl ether | 0.125 | 0.130 | 0.138 | 104 | 110 | 60.0-136 | | | 5.97 | 20 |
| Ethylbenzene | 0.125 | 0.123 | 0.129 | 98.4 | 103 | 74.0-126 | | | 4.76 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.111 | 0.115 | 88.8 | 92.0 | 57.0-150 | | | 3.54 | 20 |
| Isopropylbenzene | 0.125 | 0.133 | 0.136 | 106 | 109 | 72.0-127 | | | 2.23 | 20 |
| p-Isopropyltoluene | 0.125 | 0.131 | 0.140 | 105 | 112 | 72.0-133 | | | 6.64 | 20 |
| 2-Butanone (MEK) | 0.625 | 0.617 | 0.662 | 98.7 | 106 | 30.0-160 | | | 7.04 | 24 |
| Methylene Chloride | 0.125 | 0.113 | 0.125 | 90.4 | 100 | 68.0-123 | | | 10.1 | 20 |

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

(LCS) R4030163-1 02/02/24 07:27 • (LCSD) R4030163-2 02/02/24 07:46

| 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 % |
|---|---|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.824 | 0.810 | 132 | 130 | 56.0-143 | | | 1.71 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.121 | 0.131 | 96.8 | 105 | 66.0-132 | | | 7.94 | 20 |
| Naphthalene | 0.125 | 0.0993 | 0.112 | 79.4 | 89.6 | 59.0-130 | | | 12.0 | 20 |
| n-Propylbenzene | 0.125 | 0.139 | 0.144 | 111 | 115 | 74.0-126 | | | 3.53 | 20 |
| Styrene | 0.125 | 0.112 | 0.114 | 89.6 | 91.2 | 72.0-127 | | | 1.77 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.130 | 0.129 | 104 | 103 | 74.0-129 | | | 0.772 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.128 | 0.132 | 102 | 106 | 68.0-128 | | | 3.08 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.108 | 0.125 | 86.4 | 100 | 61.0-139 | | | 14.6 | 20 |
| Tetrachloroethene | 0.125 | 0.132 | 0.134 | 106 | 107 | 70.0-136 | | | 1.50 | 20 |
| Toluene | 0.125 | 0.130 | 0.130 | 104 | 104 | 75.0-121 | | | 0.000 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.109 | 0.128 | 87.2 | 102 | 59.0-139 | | | 16.0 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.109 | 0.118 | 87.2 | 94.4 | 62.0-137 | | | 7.93 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.124 | 0.136 | 99.2 | 109 | 69.0-126 | | | 9.23 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.142 | 0.139 | 114 | 111 | 78.0-123 | | | 2.14 | 20 |
| Trichloroethene | 0.125 | 0.125 | 0.132 | 100 | 106 | 76.0-126 | | | 5.45 | 20 |
| Trichlorofluoromethane | 0.125 | 0.110 | 0.125 | 88.0 | 100 | 61.0-142 | | | 12.8 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.129 | 0.142 | 103 | 114 | 67.0-129 | | | 9.59 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.131 | 0.138 | 105 | 110 | 70.0-126 | | | 5.20 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.128 | 0.129 | 102 | 103 | 74.0-124 | | | 0.778 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.125 | 0.132 | 100 | 106 | 73.0-127 | | | 5.45 | 20 |
| Vinyl chloride | 0.125 | 0.122 | 0.144 | 97.6 | 115 | 63.0-134 | | | 16.5 | 20 |
| Xylenes, Total | 0.375 | 0.380 | 0.391 | 101 | 104 | 72.0-127 | | | 2.85 | 20 |
| *(S) Toluene-d8* | | | | *109* | *107* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *101* | *99.4* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *96.9* | *101* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R4029255-2 02/02/24 02:27

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Diesel Range Organics (DRO) | U | | 1.33 | 4.00 |
| Residual Range Organics (RRO) | U | | 3.33 | 10.0 |
| *(S) o-Terphenyl* | *60.5* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R4029255-1 02/02/24 02:15

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 50.0 | 32.0 | 64.0 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *50.5* | *18.0-148* | |

## L1700836-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1700836-01 02/02/24 13:40 • (MS) R4029255-3 02/02/24 13:53 • (MSD) R4029255-4 02/02/24 14:05

| 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 % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 49.0 | 564 | 413 | 779 | 0.000 | 440 | 10 | 50.0-150 | V | J3 V | 61.4 | 20 |
| *(S) o-Terphenyl* | | | | | *46.9* | *64.3* | | *18.0-148* | | | | |

## Method Blank (MB)

(MB) R4030753-1 02/05/24 09:26

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Diesel Range Organics (DRO) | U | | 33.3 | 100 |
| Residual Range Organics (RRO) | U | | 83.3 | 250 |
| *(S) o-Terphenyl* | *72.5* | | | *31.0-160* |

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

(LCS) R4030753-2 02/05/24 09:46 • (LCSD) R4030753-3 02/05/24 10:06

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 1500 | 1010 | 1140 | 67.3 | 76.0 | 50.0-150 | | | 12.1 | 20 |
| *(S) o-Terphenyl* | | | | *74.5* | *82.0* | *31.0-160* | | | | |

## Method Blank (MB)

(MB) R4029364-3 02/01/24 18:27

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Anthracene | U | | 0.0190 | 0.0500 |
| Acenaphthene | U | | 0.0190 | 0.0500 |
| Acenaphthylene | U | | 0.0171 | 0.0500 |
| Benzo(a)anthracene | 0.0852 | | 0.0203 | 0.0500 |
| Benzo(a)pyrene | 0.0893 | | 0.0184 | 0.0500 |
| Benzo(b)fluoranthene | 0.0513 | | 0.0168 | 0.0500 |
| Benzo(g,h,i)perylene | 0.105 | | 0.0184 | 0.0500 |
| Benzo(k)fluoranthene | 0.125 | | 0.0202 | 0.0500 |
| Chrysene | 0.120 | | 0.0179 | 0.0500 |
| Dibenz(a,h)anthracene | 0.128 | | 0.0160 | 0.0500 |
| Fluoranthene | U | | 0.0270 | 0.100 |
| Fluorene | U | | 0.0169 | 0.0500 |
| Indeno(1,2,3-cd)pyrene | 0.0713 | | 0.0158 | 0.0500 |
| Naphthalene | U | | 0.0917 | 0.250 |
| Phenanthrene | U | | 0.0180 | 0.0500 |
| Pyrene | U | | 0.0169 | 0.0500 |
| 1-Methylnaphthalene | U | | 0.0687 | 0.250 |
| 2-Methylnaphthalene | U | | 0.0674 | 0.250 |
| 2-Chloronaphthalene | U | | 0.0682 | 0.250 |
| *(S) Nitrobenzene-d5* | *98.5* | | | *31.0-160* |
| *(S) 2-Fluorobiphenyl* | *97.0* | | | *48.0-148* |
| *(S) p-Terphenyl-d14* | *99.0* | | | *37.0-146* |

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

(LCS) R4029364-1 02/01/24 17:52 • (LCSD) R4029364-2 02/01/24 18:09

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Anthracene | 2.00 | 2.14 | 2.09 | 107 | 104 | 67.0-150 | | | 2.36 | 20 |
| Acenaphthene | 2.00 | 1.92 | 1.94 | 96.0 | 97.0 | 65.0-138 | | | 1.04 | 20 |
| Acenaphthylene | 2.00 | 2.10 | 2.09 | 105 | 104 | 66.0-140 | | | 0.477 | 20 |
| Benzo(a)anthracene | 2.00 | 2.06 | 2.11 | 103 | 105 | 61.0-140 | | | 2.40 | 20 |
| Benzo(a)pyrene | 2.00 | 2.19 | 2.21 | 109 | 111 | 60.0-143 | | | 0.909 | 20 |
| Benzo(b)fluoranthene | 2.00 | 1.86 | 1.94 | 93.0 | 97.0 | 58.0-141 | | | 4.21 | 20 |
| Benzo(g,h,i)perylene | 2.00 | 1.90 | 1.95 | 95.0 | 97.5 | 52.0-153 | | | 2.60 | 20 |
| Benzo(k)fluoranthene | 2.00 | 1.82 | 1.94 | 91.0 | 97.0 | 58.0-148 | | | 6.38 | 20 |
| Chrysene | 2.00 | 2.04 | 2.08 | 102 | 104 | 64.0-144 | | | 1.94 | 20 |
| Dibenz(a,h)anthracene | 2.00 | 2.18 | 2.22 | 109 | 111 | 52.0-155 | | | 1.82 | 20 |
| Fluoranthene | 2.00 | 2.25 | 2.25 | 112 | 112 | 69.0-153 | | | 0.000 | 20 |

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

(LCS) R4029364-1 02/01/24 17:52 • (LCSD) R4029364-2 02/01/24 18:09

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluorene | 2.00 | 2.22 | 2.20 | 111 | 110 | 64.0-136 | | | 0.905 | 20 |
| Indeno(1,2,3-cd)pyrene | 2.00 | 2.15 | 2.20 | 107 | 110 | 54.0-153 | | | 2.30 | 20 |
| Naphthalene | 2.00 | 1.97 | 1.96 | 98.5 | 98.0 | 61.0-137 | | | 0.509 | 20 |
| Phenanthrene | 2.00 | 2.04 | 2.06 | 102 | 103 | 62.0-137 | | | 0.976 | 20 |
| Pyrene | 2.00 | 1.88 | 1.89 | 94.0 | 94.5 | 60.0-142 | | | 0.531 | 20 |
| 1-Methylnaphthalene | 2.00 | 2.03 | 2.04 | 102 | 102 | 66.0-142 | | | 0.491 | 20 |
| 2-Methylnaphthalene | 2.00 | 2.12 | 2.11 | 106 | 105 | 62.0-136 | | | 0.473 | 20 |
| 2-Chloronaphthalene | 2.00 | 1.99 | 1.97 | 99.5 | 98.5 | 64.0-140 | | | 1.01 | 20 |
| *(S) Nitrobenzene-d5* | | | | *103* | *96.0* | *31.0-160* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | *98.0* | *98.5* | *48.0-148* | | | | |
| *(S) p-Terphenyl-d14* | | | | *93.5* | *93.5* | *37.0-146* | | | | |

## Method Blank (MB)

(MB) R4029943-2 02/02/24 22:02

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Anthracene | U | | 0.00230 | 0.00600 |
| Acenaphthene | U | | 0.00209 | 0.00600 |
| Acenaphthylene | U | | 0.00216 | 0.00600 |
| Benzo(a)anthracene | U | | 0.00173 | 0.00600 |
| Benzo(a)pyrene | U | | 0.00179 | 0.00600 |
| Benzo(b)fluoranthene | U | | 0.00153 | 0.00600 |
| Benzo(g,h,i)perylene | U | | 0.00177 | 0.00600 |
| Benzo(k)fluoranthene | U | | 0.00215 | 0.00600 |
| Chrysene | U | | 0.00232 | 0.00600 |
| Dibenz(a,h)anthracene | U | | 0.00172 | 0.00600 |
| Fluoranthene | U | | 0.00227 | 0.00600 |
| Fluorene | U | | 0.00205 | 0.00600 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00181 | 0.00600 |
| Naphthalene | U | | 0.00408 | 0.0200 |
| Phenanthrene | U | | 0.00231 | 0.00600 |
| Pyrene | U | | 0.00200 | 0.00600 |
| 1-Methylnaphthalene | U | | 0.00449 | 0.0200 |
| 2-Methylnaphthalene | U | | 0.00427 | 0.0200 |
| 2-Chloronaphthalene | U | | 0.00466 | 0.0200 |
| *(S) p-Terphenyl-d14* | *85.0* | | | *23.0-120* |
| *(S) Nitrobenzene-d5* | *61.9* | | | *14.0-149* |
| *(S) 2-Fluorobiphenyl* | *77.1* | | | *34.0-125* |

## Laboratory Control Sample (LCS)

(LCS) R4029943-1 02/02/24 21:44

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Anthracene | 0.0800 | 0.0718 | 89.8 | 50.0-126 | |
| Acenaphthene | 0.0800 | 0.0681 | 85.1 | 50.0-120 | |
| Acenaphthylene | 0.0800 | 0.0698 | 87.3 | 50.0-120 | |
| Benzo(a)anthracene | 0.0800 | 0.0724 | 90.5 | 45.0-120 | |
| Benzo(a)pyrene | 0.0800 | 0.0695 | 86.9 | 42.0-120 | |
| Benzo(b)fluoranthene | 0.0800 | 0.0764 | 95.5 | 42.0-121 | |
| Benzo(g,h,i)perylene | 0.0800 | 0.0776 | 97.0 | 45.0-125 | |
| Benzo(k)fluoranthene | 0.0800 | 0.0694 | 86.8 | 49.0-125 | |
| Chrysene | 0.0800 | 0.0760 | 95.0 | 49.0-122 | |
| Dibenz(a,h)anthracene | 0.0800 | 0.0811 | 101 | 47.0-125 | |
| Fluoranthene | 0.0800 | 0.0812 | 102 | 49.0-129 | |

## Laboratory Control Sample (LCS)

(LCS) R4029943-1 02/02/24 21:44

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Fluorene | 0.0800 | 0.0784 | 98.0 | 49.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.0800 | 0.0882 | 110 | 46.0-125 | |
| Naphthalene | 0.0800 | 0.0670 | 83.8 | 50.0-120 | |
| Phenanthrene | 0.0800 | 0.0750 | 93.8 | 47.0-120 | |
| Pyrene | 0.0800 | 0.0721 | 90.1 | 43.0-123 | |
| 1-Methylnaphthalene | 0.0800 | 0.0718 | 89.8 | 51.0-121 | |
| 2-Methylnaphthalene | 0.0800 | 0.0733 | 91.6 | 50.0-120 | |
| 2-Chloronaphthalene | 0.0800 | 0.0687 | 85.9 | 50.0-120 | |
| *(S) p-Terphenyl-d14* | | | *89.6* | *23.0-120* | |
| *(S) Nitrobenzene-d5* | | | *75.7* | *14.0-149* | |
| *(S) 2-Fluorobiphenyl* | | | *87.1* | *34.0-125* | |

## L1700845-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1700845-01 02/03/24 02:10 • (MS) R4029943-3 02/03/24 02:28 • (MSD) R4029943-4 02/03/24 02:45

| 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 % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Anthracene | 0.0800 | U | 0.0797 | 0.0742 | 99.6 | 94.2 | 1 | 10.0-145 | | | 7.15 | 30 |
| Acenaphthene | 0.0800 | U | 0.0669 | 0.0680 | 83.6 | 86.3 | 1 | 14.0-127 | | | 1.63 | 27 |
| Acenaphthylene | 0.0800 | U | 0.0670 | 0.0682 | 83.8 | 86.5 | 1 | 21.0-124 | | | 1.78 | 25 |
| Benzo(a)anthracene | 0.0800 | U | 0.0691 | 0.0710 | 86.4 | 90.1 | 1 | 10.0-139 | | | 2.71 | 30 |
| Benzo(a)pyrene | 0.0800 | U | 0.0782 | 0.0770 | 97.8 | 97.7 | 1 | 10.0-141 | | | 1.55 | 31 |
| Benzo(b)fluoranthene | 0.0800 | U | 0.0713 | 0.0723 | 89.1 | 91.8 | 1 | 10.0-140 | | | 1.39 | 36 |
| Benzo(g,h,i)perylene | 0.0800 | U | 0.0780 | 0.0759 | 97.5 | 96.3 | 1 | 10.0-140 | | | 2.73 | 33 |
| Benzo(k)fluoranthene | 0.0800 | U | 0.0777 | 0.0791 | 97.1 | 100 | 1 | 10.0-137 | | | 1.79 | 31 |
| Chrysene | 0.0800 | U | 0.0831 | 0.0753 | 104 | 95.6 | 1 | 10.0-145 | | | 9.85 | 30 |
| Dibenz(a,h)anthracene | 0.0800 | U | 0.0827 | 0.0806 | 103 | 102 | 1 | 10.0-132 | | | 2.57 | 31 |
| Fluoranthene | 0.0800 | U | 0.0834 | 0.0835 | 104 | 106 | 1 | 10.0-153 | | | 0.120 | 33 |
| Fluorene | 0.0800 | U | 0.0743 | 0.0740 | 92.9 | 93.9 | 1 | 11.0-130 | | | 0.405 | 29 |
| Indeno(1,2,3-cd)pyrene | 0.0800 | U | 0.0833 | 0.0790 | 104 | 100 | 1 | 10.0-137 | | | 5.30 | 32 |
| Naphthalene | 0.0800 | U | 0.0674 | 0.0659 | 84.3 | 83.6 | 1 | 10.0-135 | | | 2.25 | 27 |
| Phenanthrene | 0.0800 | U | 0.0747 | 0.0740 | 93.4 | 93.9 | 1 | 10.0-144 | | | 0.941 | 31 |
| Pyrene | 0.0800 | U | 0.0732 | 0.0729 | 91.5 | 92.5 | 1 | 10.0-148 | | | 0.411 | 35 |
| 1-Methylnaphthalene | 0.0800 | U | 0.0778 | 0.0770 | 97.3 | 97.7 | 1 | 10.0-142 | | | 1.03 | 28 |
| 2-Methylnaphthalene | 0.0800 | U | 0.0785 | 0.0707 | 98.1 | 89.7 | 1 | 10.0-137 | | | 10.5 | 28 |
| 2-Chloronaphthalene | 0.0800 | U | 0.0641 | 0.0640 | 80.1 | 81.2 | 1 | 29.0-120 | | | 0.156 | 24 |
| *(S) p-Terphenyl-d14* | | | | | *78.8* | *91.5* | | *23.0-120* | | | | |
| *(S) Nitrobenzene-d5* | | | | | *56.1* | *64.1* | | *14.0-149* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *74.7* | *83.1* | | *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]. |
| MDL | Method Detection Limit. |
| MDL (dry) | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| RDL (dry) | Reported Detection Limit. |
| Rec. | Recovery. |
| 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. |
| 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. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| V | The sample concentration is too high to evaluate accurate spike recoveries. |

## 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.

1022

# State of Oregon Chain of Custody

**Agency, Authorized Purchaser or Agent:** GSI Water Solutions for ODEQ

**Send Lab Report To:** Ellen Woods
Address: 700 NE Multnomah Street, Suite 600, Portland, OR 97232-4100
Tel. #: 541-606-0490
Email: ellen.woods@deq.or.gov, rernst@gsiws.com, bwarner@gsiws.com

**Project Name:** American Market

Project #: 2060.012.007

Sampler Name: B. Warner, R. Kemp

**Contract Laboratory Name:** Pace Analytical National
**Lab Batch #:**
**Invoice:** ODEQ/Business Office, 700 NE Multnomah Street, Suite 600, Portland, OR 97232
Email: DEQEXP@deq.state.or.us

**Lab Selection Criteria:**
- Proximity (if TAT < 48 hrs)
- Prior work on same project
- Cost (for anticipated analyses)
- Other labs disqualified or unable to perform requested services
- Emergency work

**Turnaround Time:**
- 10 days (std.)
- 5 days
- 72 hours
- 48 hours
- 24 hours
- Other _____

**Sample Preservative**

| Sample ID# | Collection Date | Collection Time | Matrix | Number of Containers | Solids: Liquids: | Solids: | Solids: Liquids: | Solids: Liquids: | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P2-SS-D | 1/29/24 | 11:11 | S | 2 | | | | | | | | | |
| P4-S4-D | 1/29/24 | 1324 | S | 2 | | | | | | | | | |
| P2-D | 1/29/24 | 11:16 | W | 12 | | | | | | | | | |
| RINSE | 1/29/24 | 1510 | W | 12 | | | | | | | | | |
| IDW-S | 1/29/24 | 1550 | S | 2 | | | | | | | | | |
| IDW-W | 1/29/24 | 1545 | W | 12 | | | | | | | | | |

**Requested Analyses**

| Sample ID# | TPH Gasoline by NWTPH-Gx | TPH as Diesel by NWTPH-Dx | VOCs (Full List) by EPA8260D | PAHs by EPA8270E-SIM | Dissolved Pb by EPA 6020B (Field Filtered) | Total Pb by EPA 6020B | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| P2-SS-D | X | X | X | X | | X | | | | LIT0018 |
| P4-S4-D | | | | | | | | | | -01 |
| P2-D | X | X | X | X | X | | | | | -02 |
| RINSE | X | X | X | X | | X | | | | -03 |
| IDW-S | X | X | X | | | X | | | | -04 |
| IDW-W | | | | | | | | | | -05 |
| | | | | | | | | | | Se |

Sample Receipt Checklist

| | | | |
|---|---|---|---|
| COC Seal Present/Intact: | Y N | 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 | | |
| RA Screen <0.5 mR/hr: | Y N | | |

NOTES: Contact Rick Ernst (503.708.5945, rernst@gsiws.com) or Braedon Warner (208.991.6713) with questions. Include DEQ EDD with final lab report.

Retain non-analyzed samples on hold.

| | | | |
|---|---|---|---|
| Relinquished By: BRAEDON WARNER | Agency/Agent: GSI | Received By: Julian Peter | Agency/Agent: GSI |
| Signature: | Time & Date: 1/30/24 11:00 | Signature: | Time & Date: 1/30/24 11:00 |
| Relinquished By: Julian Peter | Agency/Agent: GSI | Received By: Troy Chamberlain | Agency/Agent: PACE |
| Signature: | Time & Date: 1/30/24 17:00 | Signature: | Time & Date: 01/31/24 0930 |

THIS PURCHASE IS SUBMITTED PURSUANT TO STATE OF OREGON SOLICITATION #102-1098-07 AND PRICE AGREEMENT # 8903. THE PRICE AGREEMENT INCLUDING CONTRACT TERMS AND CONDITIONS AND SPECIAL CONTRACT TERMS AND CONDITIONS (T'S &C'S) CONTAINED IN THE PRICE AGREEMENT ARE HEREBY INCORPORATED BY REFERENCE AND SHALL APPLY TO THIS PURCHASE AND SHALL TAKE PRECEDENCE OVER ALL OTHER CONFLICTING T'S AND C'S, EXPRESS OR IMPLIED.