JOSH STEIN
*Governor*
D. REID WILSON
*Secretary*
MICHAEL SCOTT
*Director*

NORTH CAROLINA
***Environmental Quality***

July 8, 2025

Pablo Gutierrez-Carrion
6002 Devoncourt Place
Jamestown, NC 27282

Re: Water Supply Well Sampling Results for
6002 Devoncourt Place – Well ID 728764001
GAITHER TRANSOU PROPERTY (NONCD0000024)

Dear Pablo Gutierrez-Carrion;

With your permission, well water from your property located at the address referenced above, was collected June 16, 2025 by the North Carolina Department of Environmental Quality (NCDEQ), Division of Waste Management, for analysis of Volatile Organic Compounds (VOCs) and a group of manufactured chemicals called per- and polyfluoroalkyl substances (PFAS) that have been used in industry and consumer products.

Attached are the Analytical Results for your well sample. The lab reported that PFAS and VOCs were detected in the samples. Because one or more PFAS and VOCs were reported, the water sample results were provided to our toxicologist for water use recommendations. Please refer to the enclosed Health Risk Evaluation (HRE) attached for recommended use of the water pertaining to the VOCs and PFAS detected. Please review the attached Fact Sheet for more information on PFAS.

As a private well owner, your water is not regulated by EPA under the Safe Drinking Water Act nor does the Act set any requirements or standards for private well owners. The proposed MCLs are not enforceable standards for the regulation of private wells. However, they can be used as a decision-making tool along with information available about the health risks of PFAS exposure.

An alternative drinking water source for cooking and drinking or the installation of a point-of-use (POU) home drinking water treatment unit are two options to reduce your exposure to PFAS. Available technologies exist to treat PFAS in drinking water, including granular activated carbon (GAC), anion exchange resins, reverse osmosis, and nanofiltration. Attached to this letter is information from NCDHHS regarding PFAS water testing and filtration resources. Any POU system you consider should include a testing certification verifying the device's effectiveness at reducing PFAS to acceptable levels. It is

our understanding that you currently have a GAC treatment system. Please contact our office to schedule a sample to determine the effectiveness of the treatment system.

Through the state's Bernard Allen Memorial Emergency Drinking Water Fund (BAF), NCDEQ is able to provide bottled water to help reduce your exposure to PFAS through drinking water. You are currently receiving bottled water through BAF. For questions regarding the next steps for alternate water or questions regarding the DEQ PFAS Reimbursement Program, please continue to coordinate with our staff.

Feel free to contact me if you have additional questions.

Sincerely,

Mark R. Webb
Bernard Allen Program Manager
NCDEQ Division of Waste Management
(919) 707-8231
Mark.Webb@deq.nc.gov

Enclosures: Sample Analytical Results for 728764001
HRE for 6002 Devoncourt Place
Understanding PFAS Fact Sheet
PFAS Reimbursement Program Application Package

CC: Paula Cox, Environmental Health Division Director, Guilford County Environmental Health

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NORTH CAROLINA
*Environmental Quality*

July 3, 2025

TO: Mark Webb
NC Superfund Section

RE: Health Risk Evaluation
NONCD0000024
6002 Devoncourt Pl Well Sampling Results
Jamestown, NC

During this sampling event, eleven contaminants were detected in the well water. The standards used to determine if the water is suitable for drinking and cooking are the United States Environmental Protection Agency's Maximum Contaminant Levels (MCLs) or, if no MCLs exist, North Carolina Groundwater Standards (2L).

If contaminant concentrations exceed the applicable standards for using the water for drinking and cooking, the contaminant concentrations are further evaluated to determine if the water is suitable for other household uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing. The chart below compares the detected contaminant concentrations with the applicable standard:

| Sample ID | Contaminant | Concentration (µg/L) | MCL (µg/L) | 2L (µg/L) |
|---|---|---|---|---|
| 728764001 | Perfluorobutanesulfonic acid (PFBS) | 0.0143 | | 2*,** |
| | Perfluorobutanoic acid (PFBA) | 0.00278 | | 7* |
| | Perfluoroheptanesulfonic acid (PFHpS) | 0.00493 | NA | NA |
| | Perfluoroheptanoic acid (PFHpA) | 0.00187 | NA | NA |
| | Perfluorohexanesulfonic acid (PFHxS) | 0.145 | 0.01** | |
| | Perfluorohexanoic acid (PFHxA) | 0.0171 | | 4* |
| | Perfluorooctanesulfonic acid (PFOS) | 0.0501 | 0.004 | |
| | Perfluorooctanoic acid (PFOA) | 0.00722 | 0.004 | |

| | | | | |
|---|---|---|---|---|
| | Perfluoropentanoic acid (PFPeA) | 0.00492 | NA | NA |
| | 1,1-Dichloroethane | 0.400 | | 6 |
| | cis-1,2-Dichloroethylene | 2.37 | 70 | |

NA – Not Available
Shaded boxes indicate a standard has been exceeded.
µg/L – Stands for micrograms of contaminant per liter of water and is roughly equivalent to parts per billion.

* This value is an Interim Maximum Allowable Concentration (IMAC).

** Water containing two or more of the chemicals PFHxS, PFNA, HFPO-DA, and PFBS use a Hazard Index MCL to account for the combined concentrations.

RECOMMENDATION: The PFHxS, PFOS, and PFOA concentrations exceed the applicable standards. Therefore, this water is not recommended for drinking or cooking at this time. No restrictions are recommended for using the water for other non-ingestive uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing.

David Lilley, Environmental Toxicologist
Division of Waste Management, NCDEQ

**GEL LABORATORIES LLC**
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: 6002-Devon-20250612
Sample ID: 728764001
Matrix: Ground Water
Collect Date: 12-JUN-25 10:49
Receive Date: 13-JUN-25
Collector: Client

Project: NCDQ00117
Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCMSMS PFCs | | | | | | | | | | | | |
| EPA 537Mod PFCs by LC-MS/MS "As Received" | | | | | | | | | | | | |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor) | U | ND | 0.586 | 1.78 | ng/L | 0.0178 | 1 | JMB3 | 06/16/25 | 1731 | 2814155 | 1 |
| Fluorotelomer sulfonic acid 8:2 (8:2 FTS) | U | ND | 1.17 | 3.41 | ng/L | 0.0178 | 1 | | | | | |
| Fluorotelomer sulfonic acid 4:2 (4:2 FTS) | U | ND | 1.17 | 3.34 | ng/L | 0.0178 | 1 | | | | | |
| Fluorotelomer sulfonic acid 6:2 (6:2 FTS) | U | ND | 4.78 | 13.3 | ng/L | 0.0178 | 1 | | | | | |
| 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) | U | ND | 1.17 | 3.55 | ng/L | 0.0178 | 1 | | | | | |
| 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE) | U | ND | 1.17 | 3.55 | ng/L | 0.0178 | 1 | | | | | |
| 4,8-Dioxa-3H-perfluorononanoic acid (DONA,ADONA) | U | ND | 0.586 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major) | U | ND | 1.17 | 3.49 | ng/L | 0.0178 | 1 | | | | | |
| N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA) | U | ND | 1.17 | 3.55 | ng/L | 0.0178 | 1 | | | | | |
| N-ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA) | U | ND | 1.17 | 3.55 | ng/L | 0.0178 | 1 | | | | | |
| N-methylperfluoro-1-octanesulfonamide (N-MeFOSA) | U | ND | 1.17 | 3.55 | ng/L | 0.0178 | 1 | | | | | |
| N-methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA) | U | ND | 1.17 | 3.55 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorobutanesulfonic acid (PFBS) | | 14.3 | 0.586 | 1.58 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorobutanoic acid (PFBA) | | 2.78 | 0.711 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorodecanesulfonic acid (PFDS) | U | ND | 0.586 | 1.72 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorodecanoic acid (PFDA) | U | ND | 0.693 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorododecanesulfonic acid (PFDoS) | U | ND | 0.586 | 3.55 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorododecanoic acid (PFDOA) | U | ND | 0.586 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoroheptanesulfonic acid (PFHpS) | | 4.93 | 0.586 | 1.69 | ng/L | 0.0178 | 1 | | | | | |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: 6002-Devon-20250612
Sample ID: 728764001

Project: NCDQ00117
Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCMSMS PFCs | | | | | | | | | | | | |
| EPA 537Mod PFCs by LC-MS/MS "As Received" | | | | | | | | | | | | |
| Perfluoroheptanoic acid (PFHpA) | | 1.87 | 0.586 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorohexadecanoic acid (PFHxDA) | U | ND | 1.17 | 3.55 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorohexanesulfonic acid (PFHxS) | | 145 | 0.586 | 1.62 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorohexanoic acid (PFHxA) | | 17.1 | 0.711 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorononanesulfonic acid (PFNS) | U | ND | 0.622 | 1.71 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorononanoic acid (PFNA) | U | ND | 0.586 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorooctadecanoic acid (PFODA) | U | ND | 1.17 | 3.55 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorooctanesulfonic acid (PFOS) | | 50.1 | 0.711 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorooctanesulfonamide (PFOSA) | U | ND | 0.586 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorooctanoic acid (PFOA) | | 7.22 | 0.711 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoropentanesulfonic acid (PFPeS) | | 15.7 | 0.586 | 1.67 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoropentanoic acid (PFPeA) | | 4.92 | 0.586 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorotetradecanoic acid (PFTA) | U | ND | 0.711 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorotridecanoic Acid (PFTriA) | U | ND | 0.586 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoroundecanoic acid (PFUnA) | U | ND | 0.586 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| 1,1,2,2-Tetrafluoro-2-(1,2,2,2-tetrafluoroethoxy)ethane sulfonic acid (NVHOS) | UFG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | RR3 | 06/17/25 | 0939 | 2814155 | 2 |
| 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (Gen-X) | U | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| 4-(Heptafluoroisopropoxy)hexafluorobutanoic acid (PFECA-G) | UXG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Nafion Byproduct 4 (PFESA BP4) | UFG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Nafion Byproduct 5 (PFESA BP5) | UFG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Nafion Byproduct 6 (PFESA BP6) | UXG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Hydro-EVE | UFG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Nafion Byproduct 1 (PFESA BP1) | UG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Nafion Byproduct 2 (PFESA BP2) | UG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA or PFECA B) | U | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoro(2-ethoxyethane)sulfonic | U | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: 6002-Devon-20250612
Sample ID: 728764001

Project: NCDQ00117
Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LCMSMS PFCs** | | | | | | | | | | | | |
| **EPA 537Mod PFCs by LC-MS/MS "As Received"** | | | | | | | | | | | | |
| acid (PFEESA or PES) | | | | | | | | | | | | |
| Perfluoro(3,5,7,9,11-pentaoxadodecanoic) acid (PFO5DA or TAFN4) | UFG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA) | UFG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA) | UFG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA) | UG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoro-(2,5,8-trimethyl-3,6,9-trioxadodecanoic) acid (HFPO-TeA) | U | ND | 1.78 | 5.33 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid (HFPO-TrA) | U | ND | 1.78 | 5.33 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoro-2-(perfluoromethoxy)propanoic acid (PMPA) | UG | ND | 0.178 | 0.355 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoro-2-methoxyacetic acid (PFMOAA) | UG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoro-3-methoxypropanoic acid (PFMOPrA) | U | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoro(4-methoxybutanoic) acid (PFMOBA) | U | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoroethoxypropionic acid (EVE) | UXG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| 2,3,3,3-Tetrafluoro-2-(pentafluoroethoxy)propanoic acid (PEPA) | UG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoropropanoic acid (PFPrA) | UG | ND | 3.55 | 8.88 | ng/L | 0.0178 | 1 | | | | | |
| R-EVE | UXG | ND | 1.17 | 3.55 | ng/L | 0.0178 | 1 | | | | | |
| **Volatile Organics** | | | | | | | | | | | | |
| **SW846 8260 Volatiles "As Received"** | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | AXH5 | 06/19/25 | 1153 | 2816289 | 3 |
| 1,1,1-Trichloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1,2,2-Tetrachloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1,2-Trichloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1-Dichloroethane | J | 0.400 | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1-Dichloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |

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Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: 6002-Devon-20250612
Sample ID: 728764001

Project: NCDQ00117
Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics | | | | | | | | | | | |
| SW846 8260 Volatiles "As Received" | | | | | | | | | | | |
| 1,1-Dichloropropene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,2,3-Trichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,2,4-Trichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,2-Dibromo-3-chloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,2-Dibromoethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,2-Dichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,2-Dichloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,2-Dichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,3-Dichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,3-Dichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,4-Dichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 2,2-Dichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 2-Butanone | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| 2-Chloro-1,3-butadiene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 2-Hexanone | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| 4-Methyl-2-pentanone | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Acetone | U | ND | 1.74 | 5.00 | ug/L | | 1 | | | | |
| Acetonitrile | U | ND | 8.33 | 25.0 | ug/L | | 1 | | | | |
| Acrolein | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Acrylonitrile | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Allyl chloride | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Benzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Bromochloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Bromodichloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Bromoform | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Bromomethane | U | ND | 0.337 | 1.00 | ug/L | | 1 | | | | |
| Carbon disulfide | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Carbon tetrachloride | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Chlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Chloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Chloroform | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Chloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Dibromochloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Dibromomethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Dichlorodifluoromethane | U | ND | 0.355 | 1.00 | ug/L | | 1 | | | | |
| Ethyl methacrylate | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: 6002-Devon-20250612
Sample ID: 728764001

Project: NCDQ00117
Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics | | | | | | | | | | | |
| SW846 8260 Volatiles "As Received" | | | | | | | | | | | |
| Ethylbenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Iodomethane | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Isobutyl alcohol | U | ND | 16.7 | 50.0 | ug/L | | 1 | | | | |
| Methacrylonitrile | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Methyl methacrylate | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Methylene chloride | U | ND | 0.500 | 5.00 | ug/L | | 1 | | | | |
| Propionitrile | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Styrene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Tetrachloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Toluene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Trichloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Trichlorofluoromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Vinyl acetate | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Vinyl chloride | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Xylenes (total) | U | ND | 1.00 | 3.00 | ug/L | | 1 | | | | |
| cis-1,2-Dichloroethylene | | 2.37 | 0.333 | 1.00 | ug/L | | 1 | | | | |
| cis-1,3-Dichloropropylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| m,p-Xylenes | U | ND | 0.500 | 2.00 | ug/L | | 1 | | | | |
| o-Xylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| trans-1,2-Dichloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| trans-1,3-Dichloropropylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| trans-1,4-Dichloro-2-butene | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|---|---|---|---|---|---|
| EPA 537.1 Modified | PFCs Extraction in Liquid | MR3 | 06/16/25 | 1144 | 2814154 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|---|---|---|
| 1 | EPA 537.1 Modified | |
| 2 | EPA 537.1 Modified | |
| 3 | SW846 8260D | |

| Surrogate/Tracer Recovery | Test | Result | Nominal | Recovery% | Acceptable Limits |
|---|---|---|---|---|---|
| Bromofluorobenzene | SW846 8260 Volatiles "As Received" | 48.5 ug/L | 50.0 | 97 | (74%-123%) |
| 1,2-Dichloroethane-d4 | SW846 8260 Volatiles "As Received" | 50.6 ug/L | 50.0 | 101 | (76%-127%) |

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# *Certificate of Analysis*

Report Date: June 23, 2025

| | |
|---|---|
| Company : | NC Dept Environmental Quality |
| Address : | 1646 Mail Service Center |
| | Raleigh, North Carolina 27699 |
| Contact: | Mr. Mark Webb |
| Project: | Routine Analysis |

| | | | |
|---|---|---|---|
| Client Sample ID: | 6002-Devon-20250612 | Project: | NCDQ00117 |
| Sample ID: | 728764001 | Client ID: | NCDQ001 |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst Date | Time Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| Toluene-d8 | | SW846 8260 Volatiles "As Received" | | | 52.0 ug/L | 50.0 | | 104 | (77%-121%) | |

**Notes:**

*Column headers are defined as follows:*

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

JOSH STEIN
*Governor*
D. REID WILSON
*Secretary*
MICHAEL SCOTT
*Director*

NORTH CAROLINA
*Environmental Quality*

July 8, 2025

Kermit Coble
6007 Devoncourt Place
Jamestown, NC 27282

Re: Water Supply Well Sampling Results for
6007 Devoncourt Place – Well ID 728764003 and 728764004
GAITHER TRANSOU PROPERTY (NONCD0000024)

Dear Kermit Coble;

With your permission, well water from your property located at the address referenced above, was collected pre- and post-filter on June 16, 2025 by the North Carolina Department of Environmental Quality (NCDEQ), Division of Waste Management, for analysis of Volatile Organic Compounds (VOCs) and a group of manufactured chemicals called per- and polyfluoroalkyl substances (PFAS) that have been used in industry and consumer products.

Attached are the Analytical Results for your well sample. The lab reported that PFAS were detected in the pre-filter sample; however, there were no PFAS detected in your post-filter water supply well sample. It appears the filter system is working to remove the contaminants and, as such, the use of your well water should not result in any adverse health effects associated with PFAS. Please review the attached Fact Sheet for more information on PFAS. The lab reported that VOCs were detected in the sample pre- and post-filter. Because one or more contaminants were detected in the post-filter water sample, a Health Risk Evaluation (HRE) of the water supply was performed by our toxicologist. The HRE, which is enclosed, compares the concentration of detected contaminants to acceptable concentrations and provides a recommendation for acceptable uses of the water. It is our opinion that the acetone detections were introduced into the samples as part of the analytical process and not in your well water as evidence that it does not appear as a prefilter detection.

If you have any questions or if I can be of any further assistance, please contact me at (919) 707-8231.

Mark R. Webb
Bernard Allen Program Manager

North Carolina Department of Environmental Quality | Division of Waste Management
217 West Jones Street | 1646 Mail Service Center | Raleigh, North Carolina 27699-1646
919.707.8200

NCDEQ Division of Waste Management
(919) 707-8231
Mark.Webb@deq.nc.gov

Enclosures: Sample Analytical Results for 728764003 and 728764004
HRE for 6007 Devoncourt Place
Understanding PFAS Fact Sheet

CC: Paula Cox, Environmental Health Division Director, Guilford County Environmental Health

JOSH STEIN
*Governor*
D. REID WILSON
*Secretary*
MICHAEL SCOTT
*Director*

NORTH CAROLINA
*Environmental Quality*

July 3, 2025

TO: Mark Webb
NC Superfund Section

RE: Health Risk Evaluation
NONCD0000024
6007 Devoncourt Pl Well Sampling Results
Jamestown, NC

During this sampling event, one contaminant was detected in the well water. The standards used to determine if the water is suitable for drinking and cooking are the United States Environmental Protection Agency's Maximum Contaminant Levels (MCLs) or, if no MCLs exist, North Carolina Groundwater Standards (2L).

If the contaminant concentration exceeds the applicable standard for using the water for drinking and cooking, the contaminant concentration is further evaluated to determine if the water is suitable for other household uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing. The chart below compares the detected contaminant concentration with the applicable standard:

| Sample ID | Contaminant | Concentration (µg/L) | MCL (µg/L) | 2L (µg/L) |
|---|---|---|---|---|
| 728764004 | Acetone | 2.54 | | 6,000 |

µg/L – Micrograms of contaminant per liter of water, roughly equivalent to parts per billion.

RECOMMENDATION: The detected contaminant did not exceed the applicable water standard. Therefore, no restrictions on the use of this water are recommended at this time.

David Lilley, Environmental Toxicologist
Division of Waste Management, NCDEQ

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# *Certificate of Analysis*

Report Date: June 23, 2025

| | |
|---|---|
| Company : | NC Dept Environmental Quality |
| Address : | 1646 Mail Service Center |
| | Raleigh, North Carolina 27699 |
| Contact: | Mr. Mark Webb |
| Project: | Routine Analysis |

| | | | |
|---|---|---|---|
| Client Sample ID: | 6007-Devon-Pre-20250612 | Project: | NCDQ00117 |
| Sample ID: | 728764003 | Client ID: | NCDQ001 |
| Matrix: | Ground Water | | |
| Collect Date: | 12-JUN-25 11:58 | | |
| Receive Date: | 13-JUN-25 | | |
| Collector: | Client | | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCMSMS PFCs | | | | | | | | | | | | |
| EPA 537Mod PFCs by LC-MS/MS "As Received" | | | | | | | | | | | | |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor) | U | ND | 0.570 | 1.73 | ng/L | 0.0173 | 1 | JMB3 | 06/16/25 | 1807 | 2814155 | 1 |
| Fluorotelomer sulfonic acid 8:2 (8:2 FTS) | U | ND | 1.14 | 3.32 | ng/L | 0.0173 | 1 | | | | | |
| Fluorotelomer sulfonic acid 4:2 (4:2 FTS) | U | ND | 1.14 | 3.25 | ng/L | 0.0173 | 1 | | | | | |
| Fluorotelomer sulfonic acid 6:2 (6:2 FTS) | U | ND | 4.64 | 12.9 | ng/L | 0.0173 | 1 | | | | | |
| 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) | U | ND | 1.14 | 3.45 | ng/L | 0.0173 | 1 | | | | | |
| 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE) | U | ND | 1.14 | 3.45 | ng/L | 0.0173 | 1 | | | | | |
| 4,8-Dioxa-3H-perfluorononanoic acid (DONA,ADONA) | U | ND | 0.570 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major) | U | ND | 1.14 | 3.39 | ng/L | 0.0173 | 1 | | | | | |
| N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA) | U | ND | 1.14 | 3.45 | ng/L | 0.0173 | 1 | | | | | |
| N-ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA) | U | ND | 1.14 | 3.45 | ng/L | 0.0173 | 1 | | | | | |
| N-methylperfluoro-1-octanesulfonamide (N-MeFOSA) | U | ND | 1.14 | 3.45 | ng/L | 0.0173 | 1 | | | | | |
| N-methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA) | U | ND | 1.14 | 3.45 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorobutanesulfonic acid (PFBS) | | 6.64 | 0.570 | 1.54 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorobutanoic acid (PFBA) | J | 1.41 | 0.691 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorodecanesulfonic acid (PFDS) | U | ND | 0.570 | 1.67 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorodecanoic acid (PFDA) | U | ND | 0.673 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorododecanesulfonic acid (PFDoS) | U | ND | 0.570 | 3.45 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorododecanoic acid (PFDOA) | U | ND | 0.570 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoroheptanesulfonic acid (PFHpS) | J | 0.678 | 0.570 | 1.64 | ng/L | 0.0173 | 1 | | | | | |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: 6007-Devon-Pre-20250612 Project: NCDQ00117
Sample ID: 728764003 Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCMSMS PFCs | | | | | | | | | | | | |
| EPA 537Mod PFCs by LC-MS/MS "As Received" | | | | | | | | | | | | |
| Perfluoroheptanoic acid (PFHpA) | J | 1.08 | 0.570 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorohexadecanoic acid (PFHxDA) | U | ND | 1.14 | 3.45 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorohexanesulfonic acid (PFHxS) | | 43.5 | 0.570 | 1.57 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorohexanoic acid (PFHxA) | | 7.33 | 0.691 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorononanesulfonic acid (PFNS) | U | ND | 0.604 | 1.66 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorononanoic acid (PFNA) | U | ND | 0.570 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorooctadecanoic acid (PFODA) | U | ND | 1.14 | 3.45 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorooctanesulfonic acid (PFOS) | | 7.83 | 0.691 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorooctanesulfonamide (PFOSA) | U | ND | 0.570 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorooctanoic acid (PFOA) | | 2.74 | 0.691 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoropentanesulfonic acid (PFPeS) | | 5.44 | 0.570 | 1.62 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoropentanoic acid (PFPeA) | | 2.67 | 0.570 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorotetradecanoic acid (PFTA) | U | ND | 0.691 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorotridecanoic Acid (PFTriA) | U | ND | 0.570 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoroundecanoic acid (PFUnA) | U | ND | 0.570 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| 1,1,2,2-Tetrafluoro-2-(1,2,2,2-tetrafluoroethoxy)ethane sulfonic acid (NVHOS) | UFG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | RR3 | 06/17/25 | 1055 | 2814155 | 2 |
| 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (Gen-X) | U | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| 4-(Heptafluoroisopropoxy)hexafluorobutanoic acid (PFECA-G) | UXG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Nafion Byproduct 4 (PFESA BP4) | UFG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Nafion Byproduct 5 (PFESA BP5) | UFG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Nafion Byproduct 6 (PFESA BP6) | UXG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Hydro-EVE | UFG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Nafion Byproduct 1 (PFESA BP1) | UG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Nafion Byproduct 2 (PFESA BP2) | UG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA or PFECA B) | U | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoro(2-ethoxyethane)sulfonic | U | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: 6007-Devon-Pre-20250612
Sample ID: 728764003

Project: NCDQ00117
Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LCMSMS PFCs** | | | | | | | | | | | | |
| **EPA 537Mod PFCs by LC-MS/MS "As Received"** | | | | | | | | | | | | |
| acid (PFEESA or PES) | | | | | | | | | | | | |
| Perfluoro(3,5,7,9,11-pentaoxadodecanoic) acid (PFO5DA or TAFN4) | UFG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA) | UFG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA) | UFG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA) | UG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoro-(2,5,8-trimethyl-3,6,9-trioxadodecanoic) acid (HFPO-TeA) | U | ND | 1.73 | 5.18 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid (HFPO-TrA) | U | ND | 1.73 | 5.18 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoro-2-(perfluoromethoxy)propanoic acid (PMPA) | UG | ND | 0.173 | 0.345 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoro-2-methoxyacetic acid (PFMOAA) | UG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoro-3-methoxypropanoic acid (PFMOPrA) | U | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoro(4-methoxybutanoic) acid (PFMOBA) | U | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoroethoxypropionic acid (EVE) | UXG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| 2,3,3,3-Tetrafluoro-2-(pentafluoroethoxy)propanoic acid (PEPA) | UG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoropropanoic acid (PFPrA) | UG | ND | 3.45 | 8.63 | ng/L | 0.0173 | 1 | | | | | |
| R-EVE | UXG | ND | 1.14 | 3.45 | ng/L | 0.0173 | 1 | | | | | |
| **Volatile Organics** | | | | | | | | | | | | |
| **SW846 8260 Volatiles "As Received"** | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | AXH5 | 06/19/25 | 1219 | 2816289 | 3 |
| 1,1,1-Trichloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1,2,2-Tetrachloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1,2-Trichloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1-Dichloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1-Dichloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: 6007-Devon-Pre-20250612
Sample ID: 728764003

Project: NCDQ00117
Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics | | | | | | | | | | | |
| SW846 8260 Volatiles "As Received" | | | | | | | | | | | |
| 1,1-Dichloropropene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,2,3-Trichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,2,4-Trichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,2-Dibromo-3-chloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,2-Dibromoethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,2-Dichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,2-Dichloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,2-Dichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,3-Dichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,3-Dichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,4-Dichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 2,2-Dichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 2-Butanone | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| 2-Chloro-1,3-butadiene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 2-Hexanone | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| 4-Methyl-2-pentanone | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Acetone | U | ND | 1.74 | 5.00 | ug/L | | 1 | | | | |
| Acetonitrile | U | ND | 8.33 | 25.0 | ug/L | | 1 | | | | |
| Acrolein | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Acrylonitrile | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Allyl chloride | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Benzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Bromochloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Bromodichloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Bromoform | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Bromomethane | U | ND | 0.337 | 1.00 | ug/L | | 1 | | | | |
| Carbon disulfide | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Carbon tetrachloride | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Chlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Chloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Chloroform | J | 0.360 | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Chloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Dibromochloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Dibromomethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Dichlorodifluoromethane | U | ND | 0.355 | 1.00 | ug/L | | 1 | | | | |
| Ethyl methacrylate | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: 6007-Devon-Pre-20250612
Sample ID: 728764003

Project: NCDQ00117
Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics | | | | | | | | | | | |
| SW846 8260 Volatiles "As Received" | | | | | | | | | | | |
| Ethylbenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Iodomethane | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Isobutyl alcohol | U | ND | 16.7 | 50.0 | ug/L | | 1 | | | | |
| Methacrylonitrile | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Methyl methacrylate | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Methylene chloride | U | ND | 0.500 | 5.00 | ug/L | | 1 | | | | |
| Propionitrile | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Styrene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Tetrachloroethylene | J | 0.850 | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Toluene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Trichloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Trichlorofluoromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Vinyl acetate | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Vinyl chloride | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Xylenes (total) | U | ND | 1.00 | 3.00 | ug/L | | 1 | | | | |
| cis-1,2-Dichloroethylene | | 4.45 | 0.333 | 1.00 | ug/L | | 1 | | | | |
| cis-1,3-Dichloropropylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| m,p-Xylenes | U | ND | 0.500 | 2.00 | ug/L | | 1 | | | | |
| o-Xylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| trans-1,2-Dichloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| trans-1,3-Dichloropropylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| trans-1,4-Dichloro-2-butene | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|---|---|---|---|---|---|
| EPA 537.1 Modified | PFCs Extraction in Liquid | MR3 | 06/16/25 | 1144 | 2814154 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|---|---|---|
| 1 | EPA 537.1 Modified | |
| 2 | EPA 537.1 Modified | |
| 3 | SW846 8260D | |

| Surrogate/Tracer Recovery | Test | Result | Nominal | Recovery% | Acceptable Limits |
|---|---|---|---|---|---|
| Bromofluorobenzene | SW846 8260 Volatiles "As Received" | 47.9 ug/L | 50.0 | 96 | (74%-123%) |
| 1,2-Dichloroethane-d4 | SW846 8260 Volatiles "As Received" | 48.7 ug/L | 50.0 | 97 | (76%-127%) |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: 6007-Devon-Pre-20250612
Sample ID: 728764003

Project: NCDQ00117
Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst Date | Time Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| | | SW846 8260 Volatiles "As Received" | | | | | | | | |
| Toluene-d8 | | 50.8 | | | ug/L | 50.0 | | 102 | (77%-121%) | |

**Notes:**

*Column headers are defined as follows:*

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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# *Certificate of Analysis*

Report Date: June 23, 2025

| | |
|---|---|
| Company : | NC Dept Environmental Quality |
| Address : | 1646 Mail Service Center |
| | Raleigh, North Carolina 27699 |
| Contact: | Mr. Mark Webb |
| Project: | Routine Analysis |

| | | | |
|---|---|---|---|
| Client Sample ID: | 6007-Devon-Post-20250612 | Project: | NCDQ00117 |
| Sample ID: | 728764004 | Client ID: | NCDQ001 |
| Matrix: | Ground Water | | |
| Collect Date: | 12-JUN-25 12:03 | | |
| Receive Date: | 13-JUN-25 | | |
| Collector: | Client | | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|
| LCMSMS PFCs | | | | | | | | | | | |
| EPA 537Mod PFCs by LC-MS/MS "As Received" | | | | | | | | | | | |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor) | U | ND | 0.577 | 1.75 | ng/L | 0.0175 | 1 | JMB3 06/16/25 | 1816 | 2814155 | 1 |
| Fluorotelomer sulfonic acid 8:2 (8:2 FTS) | U | ND | 1.15 | 3.36 | ng/L | 0.0175 | 1 | | | | |
| Fluorotelomer sulfonic acid 4:2 (4:2 FTS) | U | ND | 1.15 | 3.29 | ng/L | 0.0175 | 1 | | | | |
| Fluorotelomer sulfonic acid 6:2 (6:2 FTS) | U | ND | 4.70 | 13.1 | ng/L | 0.0175 | 1 | | | | |
| 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) | U | ND | 1.15 | 3.50 | ng/L | 0.0175 | 1 | | | | |
| 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE) | U | ND | 1.15 | 3.50 | ng/L | 0.0175 | 1 | | | | |
| 4,8-Dioxa-3H-perfluorononanoic acid (DONA,ADONA) | U | ND | 0.577 | 1.75 | ng/L | 0.0175 | 1 | | | | |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major) | U | ND | 1.15 | 3.43 | ng/L | 0.0175 | 1 | | | | |
| N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA) | U | ND | 1.15 | 3.50 | ng/L | 0.0175 | 1 | | | | |
| N-ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA) | U | ND | 1.15 | 3.50 | ng/L | 0.0175 | 1 | | | | |
| N-methylperfluoro-1-octanesulfonamide (N-MeFOSA) | U | ND | 1.15 | 3.50 | ng/L | 0.0175 | 1 | | | | |
| N-methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA) | U | ND | 1.15 | 3.50 | ng/L | 0.0175 | 1 | | | | |
| Perfluorobutanesulfonic acid (PFBS) | U | ND | 0.577 | 1.56 | ng/L | 0.0175 | 1 | | | | |
| Perfluorobutanoic acid (PFBA) | U | ND | 0.699 | 1.75 | ng/L | 0.0175 | 1 | | | | |
| Perfluorodecanesulfonic acid (PFDS) | U | ND | 0.577 | 1.70 | ng/L | 0.0175 | 1 | | | | |
| Perfluorodecanoic acid (PFDA) | U | ND | 0.682 | 1.75 | ng/L | 0.0175 | 1 | | | | |
| Perfluorododecanesulfonic acid (PFDoS) | U | ND | 0.577 | 3.50 | ng/L | 0.0175 | 1 | | | | |
| Perfluorododecanoic acid (PFDOA) | U | ND | 0.577 | 1.75 | ng/L | 0.0175 | 1 | | | | |
| Perfluoroheptanesulfonic acid (PFHpS) | U | ND | 0.577 | 1.66 | ng/L | 0.0175 | 1 | | | | |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: 6007-Devon-Post-20250612 Project: NCDQ00117
Sample ID: 728764004 Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCMSMS PFCs | | | | | | | | | | | | |
| EPA 537Mod PFCs by LC-MS/MS "As Received" | | | | | | | | | | | | |
| Perfluoroheptanoic acid (PFHpA) | U | ND | 0.577 | 1.75 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorohexadecanoic acid (PFHxDA) | U | ND | 1.15 | 3.50 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorohexanesulfonic acid (PFHxS) | U | ND | 0.577 | 1.59 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorohexanoic acid (PFHxA) | U | ND | 0.699 | 1.75 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorononanesulfonic acid (PFNS) | U | ND | 0.612 | 1.68 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorononanoic acid (PFNA) | U | ND | 0.577 | 1.75 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorooctadecanoic acid (PFODA) | U | ND | 1.15 | 3.50 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorooctanesulfonic acid (PFOS) | U | ND | 0.699 | 1.75 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorooctanesulfonamide (PFOSA) | U | ND | 0.577 | 1.75 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorooctanoic acid (PFOA) | U | ND | 0.699 | 1.75 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoropentanesulfonic acid (PFPeS) | U | ND | 0.577 | 1.64 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoropentanoic acid (PFPeA) | U | ND | 0.577 | 1.75 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorotetradecanoic acid (PFTA) | U | ND | 0.699 | 1.75 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorotridecanoic Acid (PFTriA) | U | ND | 0.577 | 1.75 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoroundecanoic acid (PFUnA) | U | ND | 0.577 | 1.75 | ng/L | 0.0175 | 1 | | | | | |
| 1,1,2,2-Tetrafluoro-2-(1,2,2,2-tetrafluoroethoxy)ethane sulfonic acid (NVHOS) | UFG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | RR3 | 06/17/25 | 1110 | 2814155 | 2 |
| 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (Gen-X) | U | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| 4-(Heptafluoroisopropoxy)hexafluorobutanoic acid (PFECA-G) | UXG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Nafion Byproduct 4 (PFESA BP4) | UFG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Nafion Byproduct 5 (PFESA BP5) | UFG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Nafion Byproduct 6 (PFESA BP6) | UXG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Hydro-EVE | UFG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Nafion Byproduct 1 (PFESA BP1) | UG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Nafion Byproduct 2 (PFESA BP2) | UG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA or PFECA B) | U | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoro(2-ethoxyethane)sulfonic | U | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: 6007-Devon-Post-20250612
Sample ID: 728764004

Project: NCDQ00117
Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LCMSMS PFCs** | | | | | | | | | | | | |
| **EPA 537Mod PFCs by LC-MS/MS "As Received"** | | | | | | | | | | | | |
| acid (PFEESA or PES) | | | | | | | | | | | | |
| Perfluoro(3,5,7,9,11-pentaoxadodecanoic) acid (PFO5DA or TAFN4) | UFG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA) | UFG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA) | UFG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA) | UG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoro-(2,5,8-trimethyl-3,6,9-trioxadodecanoic) acid (HFPO-TeA) | U | ND | 1.75 | 5.24 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid (HFPO-TrA) | U | ND | 1.75 | 5.24 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoro-2-(perfluoromethoxy)propanoic acid (PMPA) | UG | ND | 0.175 | 0.350 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoro-2-methoxyacetic acid (PFMOAA) | UG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoro-3-methoxypropanoic acid (PFMOPrA) | U | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoro(4-methoxybutanoic) acid (PFMOBA) | U | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoroethoxypropionic acid (EVE) | UXG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| 2,3,3,3-Tetrafluoro-2-(pentafluoroethoxy)propanoic acid (PEPA) | UG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoropropanoic acid (PFPrA) | UG | ND | 3.50 | 8.74 | ng/L | 0.0175 | 1 | | | | | |
| R-EVE | UXG | ND | 1.15 | 3.50 | ng/L | 0.0175 | 1 | | | | | |
| **Volatile Organics** | | | | | | | | | | | | |
| **SW846 8260 Volatiles "As Received"** | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | AXH5 | 06/19/25 | 1244 | 2816289 | 3 |
| 1,1,1-Trichloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1,2,2-Tetrachloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1,2-Trichloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1-Dichloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1-Dichloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: 6007-Devon-Post-20250612 Project: NCDQ00117
Sample ID: 728764004 Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics | | | | | | | | | | | |
| SW846 8260 Volatiles "As Received" | | | | | | | | | | | |
| 1,1-Dichloropropene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,2,3-Trichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,2,4-Trichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,2-Dibromo-3-chloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,2-Dibromoethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,2-Dichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,2-Dichloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,2-Dichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,3-Dichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,3-Dichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 1,4-Dichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 2,2-Dichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 2-Butanone | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| 2-Chloro-1,3-butadiene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| 2-Hexanone | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| 4-Methyl-2-pentanone | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Acetone | J | 2.54 | 1.74 | 5.00 | ug/L | | 1 | | | | |
| Acetonitrile | U | ND | 8.33 | 25.0 | ug/L | | 1 | | | | |
| Acrolein | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Acrylonitrile | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Allyl chloride | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Benzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Bromochloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Bromodichloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Bromoform | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Bromomethane | U | ND | 0.337 | 1.00 | ug/L | | 1 | | | | |
| Carbon disulfide | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Carbon tetrachloride | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Chlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Chloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Chloroform | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Chloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Dibromochloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Dibromomethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Dichlorodifluoromethane | U | ND | 0.355 | 1.00 | ug/L | | 1 | | | | |
| Ethyl methacrylate | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: 6007-Devon-Post-20250612
Sample ID: 728764004

Project: NCDQ00117
Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics | | | | | | | | | | | |
| SW846 8260 Volatiles "As Received" | | | | | | | | | | | |
| Ethylbenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Iodomethane | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Isobutyl alcohol | U | ND | 16.7 | 50.0 | ug/L | | 1 | | | | |
| Methacrylonitrile | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Methyl methacrylate | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Methylene chloride | U | ND | 0.500 | 5.00 | ug/L | | 1 | | | | |
| Propionitrile | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Styrene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Tetrachloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Toluene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Trichloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Trichlorofluoromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Vinyl acetate | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |
| Vinyl chloride | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| Xylenes (total) | U | ND | 1.00 | 3.00 | ug/L | | 1 | | | | |
| cis-1,2-Dichloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| cis-1,3-Dichloropropylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| m,p-Xylenes | U | ND | 0.500 | 2.00 | ug/L | | 1 | | | | |
| o-Xylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| trans-1,2-Dichloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| trans-1,3-Dichloropropylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | |
| trans-1,4-Dichloro-2-butene | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|---|---|---|---|---|---|
| EPA 537.1 Modified | PFCs Extraction in Liquid | MR3 | 06/16/25 | 1144 | 2814154 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|---|---|---|
| 1 | EPA 537.1 Modified | |
| 2 | EPA 537.1 Modified | |
| 3 | SW846 8260D | |

| Surrogate/Tracer Recovery | Test | Result | Nominal | Recovery% | Acceptable Limits |
|---|---|---|---|---|---|
| Bromofluorobenzene | SW846 8260 Volatiles "As Received" | 47.4 ug/L | 50.0 | 95 | (74%-123%) |
| 1,2-Dichloroethane-d4 | SW846 8260 Volatiles "As Received" | 49.2 ug/L | 50.0 | 98 | (76%-127%) |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: 6007-Devon-Post-20250612
Sample ID: 728764004

Project: NCDQ00117
Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst Date | Time Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|
| Toluene-d8 | | SW846 8260 Volatiles "As Received" | | 50.4 | ug/L | 50.0 | 101 | (77%-121%) | | |

**Notes:**

*Column headers are defined as follows:*

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

# IHSB Health Risk Evaluation Request

**Date: July 3, 2025**

**Employee Making Request: Mark Webb**

**Name of Site (for associated site if one identified): GAITHER TRANSOU PROPERTY**

**Site ID# (for associated site if one identified): NONCD0000024**

**Address of Property Sampled/Well Location: 6002 Devoncourt Pl. Jamestown, Guilford County**

**Lab Sample ID #: 728764001**

**Request HRE For:** Water Supply Well ☒ (☐*see additional notes below*)

Indoor air: Residential ☐ Comm./Ind. ☐ (*you may choose both*)

Surface water exposure-child (provide depth of water) ☐ Depth:

**Analytical lab report(s) is/are attached:** yes ☒
*(Data tabulation is not necessary)*

## Additional Notes

**WSW Conditions Checked Below Apply:**

*Note: All metals detections will be included in a WSW HRE. However, if the IHSB project manager determines the concentrations are due to natural conditions, turbidity, or plumbing, the cover letter to the HRE sent to the owner should state these are due to the particular condition and not due to contamination at the site. Note in the letter that metals naturally occur and are commonly present in water supply wells.*

*Note: All detections flagged as lab and field artifacts by the IHSB project manager will not be included in the HRE, but a footnote will be included in the HRE that the detection was determined by the IHSB project manager to be a false detection introduced into the sample during collection or analysis and, thus, not present in the drinking water.*

☐ IHSB has determined metals concentrations are due to natural conditions.

☐ IHSB has determined metals concentrations are due to turbidity or plumbing.

☐ IHSB has determined the detection of <*insert chemical and concentration*> is/are due to artificial contamination introduced in the field or lab.

**Other information that may affect the Health Risk Evaluation:**

# IHSB Health Risk Evaluation Request

**Date: July 3, 2025**

**Employee Making Request: Mark Webb**

**Name of Site (for associated site if one identified): GAITHER TRANSOU PROPERTY**

**Site ID# (for associated site if one identified): NONCD0000024**

**Address of Property Sampled/Well Location: 6007 Devoncourt Pl. Jamestown, Guilford County**

**Lab Sample ID #: 728764004**

**Request HRE For:** Water Supply Well ☒ (☐*see additional notes below*)

Indoor air: Residential ☐ Comm./Ind. ☐ (*you may choose both*)

Surface water exposure-child (provide depth of water) ☐ Depth:

**Analytical lab report(s) is/are attached:** yes ☒
*(Data tabulation is not necessary)*

## Additional Notes

**WSW Conditions Checked Below Apply:**

*Note: All metals detections will be included in a WSW HRE. However, if the IHSB project manager determines the concentrations are due to natural conditions, turbidity, or plumbing, the cover letter to the HRE sent to the owner should state these are due to the particular condition and not due to contamination at the site. Note in the letter that metals naturally occur and are commonly present in water supply wells.*

*Note: All detections flagged as lab and field artifacts by the IHSB project manager will not be included in the HRE, but a footnote will be included in the HRE that the detection was determined by the IHSB project manager to be a false detection introduced into the sample during collection or analysis and, thus, not present in the drinking water.*

☐ IHSB has determined metals concentrations are due to natural conditions.

☐ IHSB has determined metals concentrations are due to turbidity or plumbing.

☐ IHSB has determined the detection of <*insert chemical and concentration*> is/are due to artificial contamination introduced in the field or lab.

**Other information that may affect the Health Risk Evaluation:**

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

June 23, 2025

Mr. Mark Webb
NC Dept Environmental Quality
1646 Mail Service Center
Raleigh, North Carolina 27699

Re: Routine Analysis
Work Order: 728764

Dear Mr. Webb:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 13, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 1614.

Sincerely,

Abagail Martin for
Delaney Stonesmith
Project Manager

Purchase Order: SIGNED QUOTE
Enclosures

**GEL LABORATORIES LLC**
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

# Certificate of Analysis Report
for

NCDQ001 NC Dept Environmental Quality

Client SDG: 728764 GEL Work Order: 728764

**The Qualifiers in this report are defined as follows:**

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B The target analyte was detected in the associated blank.

FG Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier.

G Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier.

J See case narrative for an explanation

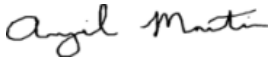
U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

XG Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Delaney Stonesmith.

Reviewed by 

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

| | | | |
|---|---|---|---|
| Client Sample ID: | 6002-Devon-20250612 | Project: | NCDQ00117 |
| Sample ID: | 728764001 | Client ID: | NCDQ001 |
| Matrix: | Ground Water | | |
| Collect Date: | 12-JUN-25 10:49 | | |
| Receive Date: | 13-JUN-25 | | |
| Collector: | Client | | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCMSMS PFCs | | | | | | | | | | | | |
| EPA 537Mod PFCs by LC-MS/MS "As Received" | | | | | | | | | | | | |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor) | U | ND | 0.586 | 1.78 | ng/L | 0.0178 | 1 | JMB3 | 06/16/25 | 1731 | 2814155 | 1 |
| Fluorotelomer sulfonic acid 8:2 (8:2 FTS) | U | ND | 1.17 | 3.41 | ng/L | 0.0178 | 1 | | | | | |
| Fluorotelomer sulfonic acid 4:2 (4:2 FTS) | U | ND | 1.17 | 3.34 | ng/L | 0.0178 | 1 | | | | | |
| Fluorotelomer sulfonic acid 6:2 (6:2 FTS) | U | ND | 4.78 | 13.3 | ng/L | 0.0178 | 1 | | | | | |
| 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) | U | ND | 1.17 | 3.55 | ng/L | 0.0178 | 1 | | | | | |
| 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE) | U | ND | 1.17 | 3.55 | ng/L | 0.0178 | 1 | | | | | |
| 4,8-Dioxa-3H-perfluorononanoic acid (DONA,ADONA) | U | ND | 0.586 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major) | U | ND | 1.17 | 3.49 | ng/L | 0.0178 | 1 | | | | | |
| N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA) | U | ND | 1.17 | 3.55 | ng/L | 0.0178 | 1 | | | | | |
| N-ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA) | U | ND | 1.17 | 3.55 | ng/L | 0.0178 | 1 | | | | | |
| N-methylperfluoro-1-octanesulfonamide (N-MeFOSA) | U | ND | 1.17 | 3.55 | ng/L | 0.0178 | 1 | | | | | |
| N-methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA) | U | ND | 1.17 | 3.55 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorobutanesulfonic acid (PFBS) | | 14.3 | 0.586 | 1.58 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorobutanoic acid (PFBA) | | 2.78 | 0.711 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorodecanesulfonic acid (PFDS) | U | ND | 0.586 | 1.72 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorodecanoic acid (PFDA) | U | ND | 0.693 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorododecanesulfonic acid (PFDoS) | U | ND | 0.586 | 3.55 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorododecanoic acid (PFDOA) | U | ND | 0.586 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoroheptanesulfonic acid (PFHpS) | | 4.93 | 0.586 | 1.69 | ng/L | 0.0178 | 1 | | | | | |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: 6002-Devon-20250612 Project: NCDQ00117
Sample ID: 728764001 Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCMSMS PFCs | | | | | | | | | | | | |
| EPA 537Mod PFCs by LC-MS/MS "As Received" | | | | | | | | | | | | |
| Perfluoroheptanoic acid (PFHpA) | | 1.87 | 0.586 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorohexadecanoic acid (PFHxDA) | U | ND | 1.17 | 3.55 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorohexanesulfonic acid (PFHxS) | | 145 | 0.586 | 1.62 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorohexanoic acid (PFHxA) | | 17.1 | 0.711 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorononanesulfonic acid (PFNS) | U | ND | 0.622 | 1.71 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorononanoic acid (PFNA) | U | ND | 0.586 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorooctadecanoic acid (PFODA) | U | ND | 1.17 | 3.55 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorooctanesulfonic acid (PFOS) | | 50.1 | 0.711 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorooctanesulfonamide (PFOSA) | U | ND | 0.586 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorooctanoic acid (PFOA) | | 7.22 | 0.711 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoropentanesulfonic acid (PFPeS) | | 15.7 | 0.586 | 1.67 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoropentanoic acid (PFPeA) | | 4.92 | 0.586 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorotetradecanoic acid (PFTA) | U | ND | 0.711 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| Perfluorotridecanoic Acid (PFTriA) | U | ND | 0.586 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoroundecanoic acid (PFUnA) | U | ND | 0.586 | 1.78 | ng/L | 0.0178 | 1 | | | | | |
| 1,1,2,2-Tetrafluoro-2-(1,2,2,2-tetrafluoroethoxy)ethane sulfonic acid (NVHOS) | UFG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | RR3 | 06/17/25 | 0939 | 2814155 | 2 |
| 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (Gen-X) | U | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| 4-(Heptafluoroisopropoxy)hexafluorobutanoic acid (PFECA-G) | UXG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Nafion Byproduct 4 (PFESA BP4) | UFG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Nafion Byproduct 5 (PFESA BP5) | UFG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Nafion Byproduct 6 (PFESA BP6) | UXG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Hydro-EVE | UFG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Nafion Byproduct 1 (PFESA BP1) | UG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Nafion Byproduct 2 (PFESA BP2) | UG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA or PFECA B) | U | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoro(2-ethoxyethane)sulfonic | U | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: 6002-Devon-20250612 Project: NCDQ00117
Sample ID: 728764001 Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCMSMS PFCs | | | | | | | | | | | | |
| EPA 537Mod PFCs by LC-MS/MS "As Received" | | | | | | | | | | | | |
| acid (PFEESA or PES) | | | | | | | | | | | | |
| Perfluoro(3,5,7,9,11-pentaoxadodecanoic) acid (PFO5DA or TAFN4) | UFG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA) | UFG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA) | UFG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA) | UG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoro-(2,5,8-trimethyl-3,6,9-trioxadodecanoic) acid (HFPO-TeA) | U | ND | 1.78 | 5.33 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid (HFPO-TrA) | U | ND | 1.78 | 5.33 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoro-2-(perfluoromethoxy)propanoic acid (PMPA) | UG | ND | 0.178 | 0.355 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoro-2-methoxyacetic acid (PFMOAA) | UG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoro-3-methoxypropanoic acid (PFMOPrA) | U | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoro(4-methoxybutanoic) acid (PFMOBA) | U | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoroethoxypropionic acid (EVE) | UXG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| 2,3,3,3-Tetrafluoro-2-(pentafluoroethoxy)propanoic acid (PEPA) | UG | ND | 0.178 | 0.444 | ng/L | 0.0178 | 1 | | | | | |
| Perfluoropropanoic acid (PFPrA) | UG | ND | 3.55 | 8.88 | ng/L | 0.0178 | 1 | | | | | |
| R-EVE | UXG | ND | 1.17 | 3.55 | ng/L | 0.0178 | 1 | | | | | |
| Volatile Organics | | | | | | | | | | | | |
| SW846 8260 Volatiles "As Received" | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | AXH5 | 06/19/25 | 1153 | 2816289 | 3 |
| 1,1,1-Trichloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1,2,2-Tetrachloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1,2-Trichloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1-Dichloroethane | J | 0.400 | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1-Dichloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: 6002-Devon-20250612 Project: NCDQ00117
Sample ID: 728764001 Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics | | | | | | | | | | | | |
| SW846 8260 Volatiles "As Received" | | | | | | | | | | | | |
| 1,1-Dichloropropene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2,3-Trichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2,4-Trichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2-Dibromo-3-chloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2-Dibromoethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2-Dichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2-Dichloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2-Dichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,3-Dichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,3-Dichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,4-Dichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 2,2-Dichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 2-Butanone | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| 2-Chloro-1,3-butadiene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 2-Hexanone | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| 4-Methyl-2-pentanone | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Acetone | U | ND | 1.74 | 5.00 | ug/L | | 1 | | | | | |
| Acetonitrile | U | ND | 8.33 | 25.0 | ug/L | | 1 | | | | | |
| Acrolein | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Acrylonitrile | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Allyl chloride | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Benzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Bromochloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Bromodichloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Bromoform | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Bromomethane | U | ND | 0.337 | 1.00 | ug/L | | 1 | | | | | |
| Carbon disulfide | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Carbon tetrachloride | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Chlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Chloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Chloroform | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Chloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Dibromochloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Dibromomethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Dichlorodifluoromethane | U | ND | 0.355 | 1.00 | ug/L | | 1 | | | | | |
| Ethyl methacrylate | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: 6002-Devon-20250612 Project: NCDQ00117
Sample ID: 728764001 Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics | | | | | | | | | | | | |
| SW846 8260 Volatiles "As Received" | | | | | | | | | | | | |
| Ethylbenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Iodomethane | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Isobutyl alcohol | U | ND | 16.7 | 50.0 | ug/L | | 1 | | | | | |
| Methacrylonitrile | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Methyl methacrylate | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Methylene chloride | U | ND | 0.500 | 5.00 | ug/L | | 1 | | | | | |
| Propionitrile | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Styrene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Tetrachloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Toluene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Trichloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Trichlorofluoromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Vinyl acetate | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Vinyl chloride | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Xylenes (total) | U | ND | 1.00 | 3.00 | ug/L | | 1 | | | | | |
| cis-1,2-Dichloroethylene | | 2.37 | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| cis-1,3-Dichloropropylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| m,p-Xylenes | U | ND | 0.500 | 2.00 | ug/L | | 1 | | | | | |
| o-Xylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| trans-1,2-Dichloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| trans-1,3-Dichloropropylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| trans-1,4-Dichloro-2-butene | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|---|---|---|---|---|---|
| EPA 537.1 Modified | PFCs Extraction in Liquid | MR3 | 06/16/25 | 1144 | 2814154 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|---|---|---|
| 1 | EPA 537.1 Modified | |
| 2 | EPA 537.1 Modified | |
| 3 | SW846 8260D | |

| Surrogate/Tracer Recovery | Test | Result | Nominal | Recovery% | Acceptable Limits |
|---|---|---|---|---|---|
| Bromofluorobenzene | SW846 8260 Volatiles "As Received" | 48.5 ug/L | 50.0 | 97 | (74%-123%) |
| 1,2-Dichloroethane-d4 | SW846 8260 Volatiles "As Received" | 50.6 ug/L | 50.0 | 101 | (76%-127%) |

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# *Certificate of Analysis*

Report Date: June 23, 2025

| | |
|---|---|
| Company : | NC Dept Environmental Quality |
| Address : | 1646 Mail Service Center |
| | Raleigh, North Carolina 27699 |
| Contact: | Mr. Mark Webb |
| Project: | Routine Analysis |

| | | | |
|---|---|---|---|
| Client Sample ID: | 6002-Devon-20250612 | Project: | NCDQ00117 |
| Sample ID: | 728764001 | Client ID: | NCDQ001 |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Toluene-d8 | | SW846 8260 Volatiles "As Received" | | 52.0 | ug/L | 50.0 | | 104 | (77%-121%) | | |

**Notes:**

*Column headers are defined as follows:*

| | |
|---|---|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

| | | | |
|---|---|---|---|
| Client Sample ID: | 6002-Devon-20250612-FB | Project: | NCDQ00117 |
| Sample ID: | 728764002 | Client ID: | NCDQ001 |
| Matrix: | Water | | |
| Collect Date: | 12-JUN-25 10:49 | | |
| Receive Date: | 13-JUN-25 | | |
| Collector: | Client | | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCMSMS PFCs | | | | | | | | | | | | |
| EPA 537Mod PFCs by LC-MS/MS "As Received" | | | | | | | | | | | | |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor) | U | ND | 0.576 | 1.74 | ng/L | 0.0174 | 1 | JMB3 | 06/16/25 | 1758 | 2814155 | 1 |
| Fluorotelomer sulfonic acid 8:2 (8:2 FTS) | U | ND | 1.15 | 3.35 | ng/L | 0.0174 | 1 | | | | | |
| Fluorotelomer sulfonic acid 4:2 (4:2 FTS) | U | ND | 1.15 | 3.28 | ng/L | 0.0174 | 1 | | | | | |
| Fluorotelomer sulfonic acid 6:2 (6:2 FTS) | U | ND | 4.69 | 13.1 | ng/L | 0.0174 | 1 | | | | | |
| 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) | U | ND | 1.15 | 3.49 | ng/L | 0.0174 | 1 | | | | | |
| 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE) | U | ND | 1.15 | 3.49 | ng/L | 0.0174 | 1 | | | | | |
| 4,8-Dioxa-3H-perfluorononanoic acid (DONA,ADONA) | U | ND | 0.576 | 1.74 | ng/L | 0.0174 | 1 | | | | | |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major) | U | ND | 1.15 | 3.43 | ng/L | 0.0174 | 1 | | | | | |
| N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA) | U | ND | 1.15 | 3.49 | ng/L | 0.0174 | 1 | | | | | |
| N-ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA) | U | ND | 1.15 | 3.49 | ng/L | 0.0174 | 1 | | | | | |
| N-methylperfluoro-1-octanesulfonamide (N-MeFOSA) | U | ND | 1.15 | 3.49 | ng/L | 0.0174 | 1 | | | | | |
| N-methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA) | U | ND | 1.15 | 3.49 | ng/L | 0.0174 | 1 | | | | | |
| Perfluorobutanesulfonic acid (PFBS) | U | ND | 0.576 | 1.55 | ng/L | 0.0174 | 1 | | | | | |
| Perfluorobutanoic acid (PFBA) | U | ND | 0.698 | 1.74 | ng/L | 0.0174 | 1 | | | | | |
| Perfluorodecanesulfonic acid (PFDS) | U | ND | 0.576 | 1.69 | ng/L | 0.0174 | 1 | | | | | |
| Perfluorodecanoic acid (PFDA) | U | ND | 0.680 | 1.74 | ng/L | 0.0174 | 1 | | | | | |
| Perfluorododecanesulfonic acid (PFDoS) | U | ND | 0.576 | 3.49 | ng/L | 0.0174 | 1 | | | | | |
| Perfluorododecanoic acid (PFDOA) | U | ND | 0.576 | 1.74 | ng/L | 0.0174 | 1 | | | | | |
| Perfluoroheptanesulfonic acid (PFHpS) | U | ND | 0.576 | 1.66 | ng/L | 0.0174 | 1 | | | | | |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: 6002-Devon-20250612-FB
Sample ID: 728764002
Project: NCDQ00117
Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCMSMS PFCs | | | | | | | | | | | | |
| EPA 537Mod PFCs by LC-MS/MS "As Received" | | | | | | | | | | | | |
| Perfluoroheptanoic acid (PFHpA) | U | ND | 0.576 | 1.74 | ng/L | 0.0174 | 1 | | | | | |
| Perfluorohexadecanoic acid (PFHxDA) | U | ND | 1.15 | 3.49 | ng/L | 0.0174 | 1 | | | | | |
| Perfluorohexanesulfonic acid (PFHxS) | U | ND | 0.576 | 1.59 | ng/L | 0.0174 | 1 | | | | | |
| Perfluorohexanoic acid (PFHxA) | U | ND | 0.698 | 1.74 | ng/L | 0.0174 | 1 | | | | | |
| Perfluorononanesulfonic acid (PFNS) | U | ND | 0.610 | 1.67 | ng/L | 0.0174 | 1 | | | | | |
| Perfluorononanoic acid (PFNA) | U | ND | 0.576 | 1.74 | ng/L | 0.0174 | 1 | | | | | |
| Perfluorooctadecanoic acid (PFODA) | U | ND | 1.15 | 3.49 | ng/L | 0.0174 | 1 | | | | | |
| Perfluorooctanesulfonic acid (PFOS) | U | ND | 0.698 | 1.74 | ng/L | 0.0174 | 1 | | | | | |
| Perfluorooctanesulfonamide (PFOSA) | U | ND | 0.576 | 1.74 | ng/L | 0.0174 | 1 | | | | | |
| Perfluorooctanoic acid (PFOA) | U | ND | 0.698 | 1.74 | ng/L | 0.0174 | 1 | | | | | |
| Perfluoropentanesulfonic acid (PFPeS) | U | ND | 0.576 | 1.64 | ng/L | 0.0174 | 1 | | | | | |
| Perfluoropentanoic acid (PFPeA) | U | ND | 0.576 | 1.74 | ng/L | 0.0174 | 1 | | | | | |
| Perfluorotetradecanoic acid (PFTA) | U | ND | 0.698 | 1.74 | ng/L | 0.0174 | 1 | | | | | |
| Perfluorotridecanoic Acid (PFTriA) | U | ND | 0.576 | 1.74 | ng/L | 0.0174 | 1 | | | | | |
| Perfluoroundecanoic acid (PFUnA) | U | ND | 0.576 | 1.74 | ng/L | 0.0174 | 1 | | | | | |
| 1,1,2,2-Tetrafluoro-2-(1,2,2,2-tetrafluoroethoxy)ethane sulfonic acid (NVHOS) | UFG | ND | 0.174 | 0.436 | ng/L | 0.0174 | 1 | RR3 | 06/17/25 | 1024 | 2814155 | 2 |
| 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (Gen-X) | U | ND | 0.174 | 0.436 | ng/L | 0.0174 | 1 | | | | | |
| 4-(Heptafluoroisopropoxy)hexafluorobutanoic acid (PFECA-G) | UXG | ND | 0.174 | 0.436 | ng/L | 0.0174 | 1 | | | | | |
| Nafion Byproduct 4 (PFESA BP4) | UFG | ND | 0.174 | 0.436 | ng/L | 0.0174 | 1 | | | | | |
| Nafion Byproduct 5 (PFESA BP5) | UFG | ND | 0.174 | 0.436 | ng/L | 0.0174 | 1 | | | | | |
| Nafion Byproduct 6 (PFESA BP6) | UXG | ND | 0.174 | 0.436 | ng/L | 0.0174 | 1 | | | | | |
| Hydro-EVE | UFG | ND | 0.174 | 0.436 | ng/L | 0.0174 | 1 | | | | | |
| Nafion Byproduct 1 (PFESA BP1) | UG | ND | 0.174 | 0.436 | ng/L | 0.0174 | 1 | | | | | |
| Nafion Byproduct 2 (PFESA BP2) | UG | ND | 0.174 | 0.436 | ng/L | 0.0174 | 1 | | | | | |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA or PFECA B) | U | ND | 0.174 | 0.436 | ng/L | 0.0174 | 1 | | | | | |
| Perfluoro(2-ethoxyethane)sulfonic | U | ND | 0.174 | 0.436 | ng/L | 0.0174 | 1 | | | | | |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: 6002-Devon-20250612-FB
Sample ID: 728764002
Project: NCDQ00117
Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|
| LCMSMS PFCs | | | | | | | | | | | |
| EPA 537Mod PFCs by LC-MS/MS "As Received" | | | | | | | | | | | |
| acid (PFEESA or PES) | | | | | | | | | | | |
| Perfluoro(3,5,7,9,11-pentaoxadodecanoic) acid (PFO5DA or TAFN4) | UFG | ND | 0.174 | 0.436 | ng/L | 0.0174 | 1 | | | | |
| Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA) | UFG | ND | 0.174 | 0.436 | ng/L | 0.0174 | 1 | | | | |
| Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA) | UFG | ND | 0.174 | 0.436 | ng/L | 0.0174 | 1 | | | | |
| Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA) | UG | ND | 0.174 | 0.436 | ng/L | 0.0174 | 1 | | | | |
| Perfluoro-(2,5,8-trimethyl-3,6,9-trioxadodecanoic) acid (HFPO-TeA) | U | ND | 1.74 | 5.23 | ng/L | 0.0174 | 1 | | | | |
| Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid (HFPO-TrA) | U | ND | 1.74 | 5.23 | ng/L | 0.0174 | 1 | | | | |
| Perfluoro-2-(perfluoromethoxy)propanoic acid (PMPA) | UG | ND | 0.174 | 0.349 | ng/L | 0.0174 | 1 | | | | |
| Perfluoro-2-methoxyacetic acid (PFMOAA) | UG | ND | 0.174 | 0.436 | ng/L | 0.0174 | 1 | | | | |
| Perfluoro-3-methoxypropanoic acid (PFMOPrA) | U | ND | 0.174 | 0.436 | ng/L | 0.0174 | 1 | | | | |
| Perfluoro(4-methoxybutanoic) acid (PFMOBA) | U | ND | 0.174 | 0.436 | ng/L | 0.0174 | 1 | | | | |
| Perfluoroethoxypropionic acid (EVE) | UXG | ND | 0.174 | 0.436 | ng/L | 0.0174 | 1 | | | | |
| 2,3,3,3-Tetrafluoro-2-(pentafluoroethoxy)propanoic acid (PEPA) | UG | ND | 0.174 | 0.436 | ng/L | 0.0174 | 1 | | | | |
| Perfluoropropanoic acid (PFPrA) | UG | ND | 3.49 | 8.72 | ng/L | 0.0174 | 1 | | | | |
| R-EVE | UXG | ND | 1.15 | 3.49 | ng/L | 0.0174 | 1 | | | | |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|---|---|---|---|---|---|
| EPA 537.1 Modified | PFCs Extraction in Liquid | MR3 | 06/16/25 | 1144 | 2814154 |

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# *Certificate of Analysis*

Report Date: June 23, 2025

| | |
|---|---|
| Company : | NC Dept Environmental Quality |
| Address : | 1646 Mail Service Center |
| | Raleigh, North Carolina 27699 |
| Contact: | Mr. Mark Webb |
| Project: | Routine Analysis |

| | | | |
|---|---|---|---|
| Client Sample ID: | 6002-Devon-20250612-FB | Project: | NCDQ00117 |
| Sample ID: | 728764002 | Client ID: | NCDQ001 |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|---|---|---|
| 1 | EPA 537.1 Modified | |
| 2 | EPA 537.1 Modified | |

**Notes:**

*Column headers are defined as follows:*

| | |
|---|---|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

| | | | |
|---|---|---|---|
| Client Sample ID: | 6007-Devon-Pre-20250612 | Project: | NCDQ00117 |
| Sample ID: | 728764003 | Client ID: | NCDQ001 |
| Matrix: | Ground Water | | |
| Collect Date: | 12-JUN-25 11:58 | | |
| Receive Date: | 13-JUN-25 | | |
| Collector: | Client | | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCMSMS PFCs | | | | | | | | | | | | |
| EPA 537Mod PFCs by LC-MS/MS "As Received" | | | | | | | | | | | | |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor) | U | ND | 0.570 | 1.73 | ng/L | 0.0173 | 1 | JMB3 | 06/16/25 | 1807 | 2814155 | 1 |
| Fluorotelomer sulfonic acid 8:2 (8:2 FTS) | U | ND | 1.14 | 3.32 | ng/L | 0.0173 | 1 | | | | | |
| Fluorotelomer sulfonic acid 4:2 (4:2 FTS) | U | ND | 1.14 | 3.25 | ng/L | 0.0173 | 1 | | | | | |
| Fluorotelomer sulfonic acid 6:2 (6:2 FTS) | U | ND | 4.64 | 12.9 | ng/L | 0.0173 | 1 | | | | | |
| 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) | U | ND | 1.14 | 3.45 | ng/L | 0.0173 | 1 | | | | | |
| 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE) | U | ND | 1.14 | 3.45 | ng/L | 0.0173 | 1 | | | | | |
| 4,8-Dioxa-3H-perfluorononanoic acid (DONA,ADONA) | U | ND | 0.570 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major) | U | ND | 1.14 | 3.39 | ng/L | 0.0173 | 1 | | | | | |
| N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA) | U | ND | 1.14 | 3.45 | ng/L | 0.0173 | 1 | | | | | |
| N-ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA) | U | ND | 1.14 | 3.45 | ng/L | 0.0173 | 1 | | | | | |
| N-methylperfluoro-1-octanesulfonamide (N-MeFOSA) | U | ND | 1.14 | 3.45 | ng/L | 0.0173 | 1 | | | | | |
| N-methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA) | U | ND | 1.14 | 3.45 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorobutanesulfonic acid (PFBS) | | 6.64 | 0.570 | 1.54 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorobutanoic acid (PFBA) | J | 1.41 | 0.691 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorodecanesulfonic acid (PFDS) | U | ND | 0.570 | 1.67 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorodecanoic acid (PFDA) | U | ND | 0.673 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorododecanesulfonic acid (PFDoS) | U | ND | 0.570 | 3.45 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorododecanoic acid (PFDOA) | U | ND | 0.570 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoroheptanesulfonic acid (PFHpS) | J | 0.678 | 0.570 | 1.64 | ng/L | 0.0173 | 1 | | | | | |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: 6007-Devon-Pre-20250612 Project: NCDQ00117
Sample ID: 728764003 Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCMSMS PFCs | | | | | | | | | | | | |
| EPA 537Mod PFCs by LC-MS/MS "As Received" | | | | | | | | | | | | |
| Perfluoroheptanoic acid (PFHpA) | J | 1.08 | 0.570 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorohexadecanoic acid (PFHxDA) | U | ND | 1.14 | 3.45 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorohexanesulfonic acid (PFHxS) | | 43.5 | 0.570 | 1.57 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorohexanoic acid (PFHxA) | | 7.33 | 0.691 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorononanesulfonic acid (PFNS) | U | ND | 0.604 | 1.66 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorononanoic acid (PFNA) | U | ND | 0.570 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorooctadecanoic acid (PFODA) | U | ND | 1.14 | 3.45 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorooctanesulfonic acid (PFOS) | | 7.83 | 0.691 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorooctanesulfonamide (PFOSA) | U | ND | 0.570 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorooctanoic acid (PFOA) | | 2.74 | 0.691 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoropentanesulfonic acid (PFPeS) | | 5.44 | 0.570 | 1.62 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoropentanoic acid (PFPeA) | | 2.67 | 0.570 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorotetradecanoic acid (PFTA) | U | ND | 0.691 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| Perfluorotridecanoic Acid (PFTriA) | U | ND | 0.570 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoroundecanoic acid (PFUnA) | U | ND | 0.570 | 1.73 | ng/L | 0.0173 | 1 | | | | | |
| 1,1,2,2-Tetrafluoro-2-(1,2,2,2-tetrafluoroethoxy)ethane sulfonic acid (NVHOS) | UFG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | RR3 | 06/17/25 | 1055 | 2814155 | 2 |
| 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (Gen-X) | U | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| 4-(Heptafluoroisopropoxy)hexafluorobutanoic acid (PFECA-G) | UXG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Nafion Byproduct 4 (PFESA BP4) | UFG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Nafion Byproduct 5 (PFESA BP5) | UFG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Nafion Byproduct 6 (PFESA BP6) | UXG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Hydro-EVE | UFG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Nafion Byproduct 1 (PFESA BP1) | UG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Nafion Byproduct 2 (PFESA BP2) | UG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA or PFECA B) | U | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoro(2-ethoxyethane)sulfonic | U | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: 6007-Devon-Pre-20250612 Project: NCDQ00117
Sample ID: 728764003 Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCMSMS PFCs | | | | | | | | | | | | |
| EPA 537Mod PFCs by LC-MS/MS "As Received" | | | | | | | | | | | | |
| acid (PFEESA or PES) | | | | | | | | | | | | |
| Perfluoro(3,5,7,9,11-pentaoxadodecanoic) acid (PFO5DA or TAFN4) | UFG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA) | UFG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA) | UFG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA) | UG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoro-(2,5,8-trimethyl-3,6,9-trioxadodecanoic) acid (HFPO-TeA) | U | ND | 1.73 | 5.18 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid (HFPO-TrA) | U | ND | 1.73 | 5.18 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoro-2-(perfluoromethoxy)propanoic acid (PMPA) | UG | ND | 0.173 | 0.345 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoro-2-methoxyacetic acid (PFMOAA) | UG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoro-3-methoxypropanoic acid (PFMOPrA) | U | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoro(4-methoxybutanoic) acid (PFMOBA) | U | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoroethoxypropionic acid (EVE) | UXG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| 2,3,3,3-Tetrafluoro-2-(pentafluoroethoxy)propanoic acid (PEPA) | UG | ND | 0.173 | 0.432 | ng/L | 0.0173 | 1 | | | | | |
| Perfluoropropanoic acid (PFPrA) | UG | ND | 3.45 | 8.63 | ng/L | 0.0173 | 1 | | | | | |
| R-EVE | UXG | ND | 1.14 | 3.45 | ng/L | 0.0173 | 1 | | | | | |
| Volatile Organics | | | | | | | | | | | | |
| SW846 8260 Volatiles "As Received" | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | AXH5 | 06/19/25 | 1219 | 2816289 | 3 |
| 1,1,1-Trichloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1,2,2-Tetrachloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1,2-Trichloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1-Dichloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1-Dichloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: 6007-Devon-Pre-20250612 Project: NCDQ00117
Sample ID: 728764003 Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics | | | | | | | | | | | | |
| SW846 8260 Volatiles "As Received" | | | | | | | | | | | | |
| 1,1-Dichloropropene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2,3-Trichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2,4-Trichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2-Dibromo-3-chloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2-Dibromoethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2-Dichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2-Dichloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2-Dichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,3-Dichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,3-Dichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,4-Dichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 2,2-Dichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 2-Butanone | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| 2-Chloro-1,3-butadiene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 2-Hexanone | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| 4-Methyl-2-pentanone | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Acetone | U | ND | 1.74 | 5.00 | ug/L | | 1 | | | | | |
| Acetonitrile | U | ND | 8.33 | 25.0 | ug/L | | 1 | | | | | |
| Acrolein | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Acrylonitrile | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Allyl chloride | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Benzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Bromochloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Bromodichloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Bromoform | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Bromomethane | U | ND | 0.337 | 1.00 | ug/L | | 1 | | | | | |
| Carbon disulfide | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Carbon tetrachloride | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Chlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Chloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Chloroform | J | 0.360 | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Chloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Dibromochloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Dibromomethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Dichlorodifluoromethane | U | ND | 0.355 | 1.00 | ug/L | | 1 | | | | | |
| Ethyl methacrylate | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: 6007-Devon-Pre-20250612 Project: NCDQ00117
Sample ID: 728764003 Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics | | | | | | | | | | | | |
| SW846 8260 Volatiles "As Received" | | | | | | | | | | | | |
| Ethylbenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Iodomethane | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Isobutyl alcohol | U | ND | 16.7 | 50.0 | ug/L | | 1 | | | | | |
| Methacrylonitrile | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Methyl methacrylate | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Methylene chloride | U | ND | 0.500 | 5.00 | ug/L | | 1 | | | | | |
| Propionitrile | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Styrene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Tetrachloroethylene | J | 0.850 | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Toluene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Trichloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Trichlorofluoromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Vinyl acetate | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Vinyl chloride | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Xylenes (total) | U | ND | 1.00 | 3.00 | ug/L | | 1 | | | | | |
| cis-1,2-Dichloroethylene | | 4.45 | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| cis-1,3-Dichloropropylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| m,p-Xylenes | U | ND | 0.500 | 2.00 | ug/L | | 1 | | | | | |
| o-Xylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| trans-1,2-Dichloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| trans-1,3-Dichloropropylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| trans-1,4-Dichloro-2-butene | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|---|---|---|---|---|---|
| EPA 537.1 Modified | PFCs Extraction in Liquid | MR3 | 06/16/25 | 1144 | 2814154 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|---|---|---|
| 1 | EPA 537.1 Modified | |
| 2 | EPA 537.1 Modified | |
| 3 | SW846 8260D | |

| Surrogate/Tracer Recovery | Test | Result | Nominal | Recovery% | Acceptable Limits |
|---|---|---|---|---|---|
| Bromofluorobenzene | SW846 8260 Volatiles "As Received" | 47.9 ug/L | 50.0 | 96 | (74%-123%) |
| 1,2-Dichloroethane-d4 | SW846 8260 Volatiles "As Received" | 48.7 ug/L | 50.0 | 97 | (76%-127%) |

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|---|---|
| Company : | NC Dept Environmental Quality |
| Address : | 1646 Mail Service Center |
| | Raleigh, North Carolina 27699 |
| Contact: | Mr. Mark Webb |
| Project: | Routine Analysis |

| | | | |
|---|---|---|---|
| Client Sample ID: | 6007-Devon-Pre-20250612 | Project: | NCDQ00117 |
| Sample ID: | 728764003 | Client ID: | NCDQ001 |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Toluene-d8 | | SW846 8260 Volatiles "As Received" | | 50.8 | ug/L | 50.0 | | 102 | (77%-121%) | | |

**Notes:**

*Column headers are defined as follows:*

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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| | |
|---|---|
| Company : | NC Dept Environmental Quality |
| Address : | 1646 Mail Service Center |
| | Raleigh, North Carolina 27699 |
| Contact: | Mr. Mark Webb |
| Project: | Routine Analysis |

| | | | |
|---|---|---|---|
| Client Sample ID: | 6007-Devon-Post-20250612 | Project: | NCDQ00117 |
| Sample ID: | 728764004 | Client ID: | NCDQ001 |
| Matrix: | Ground Water | | |
| Collect Date: | 12-JUN-25 12:03 | | |
| Receive Date: | 13-JUN-25 | | |
| Collector: | Client | | |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCMSMS PFCs | | | | | | | | | | | | |
| EPA 537Mod PFCs by LC-MS/MS "As Received" | | | | | | | | | | | | |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor) | U | ND | 0.577 | 1.75 | ng/L | 0.0175 | 1 | JMB3 | 06/16/25 | 1816 | 2814155 | 1 |
| Fluorotelomer sulfonic acid 8:2 (8:2 FTS) | U | ND | 1.15 | 3.36 | ng/L | 0.0175 | 1 | | | | | |
| Fluorotelomer sulfonic acid 4:2 (4:2 FTS) | U | ND | 1.15 | 3.29 | ng/L | 0.0175 | 1 | | | | | |
| Fluorotelomer sulfonic acid 6:2 (6:2 FTS) | U | ND | 4.70 | 13.1 | ng/L | 0.0175 | 1 | | | | | |
| 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) | U | ND | 1.15 | 3.50 | ng/L | 0.0175 | 1 | | | | | |
| 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE) | U | ND | 1.15 | 3.50 | ng/L | 0.0175 | 1 | | | | | |
| 4,8-Dioxa-3H-perfluorononanoic acid (DONA,ADONA) | U | ND | 0.577 | 1.75 | ng/L | 0.0175 | 1 | | | | | |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major) | U | ND | 1.15 | 3.43 | ng/L | 0.0175 | 1 | | | | | |
| N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA) | U | ND | 1.15 | 3.50 | ng/L | 0.0175 | 1 | | | | | |
| N-ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA) | U | ND | 1.15 | 3.50 | ng/L | 0.0175 | 1 | | | | | |
| N-methylperfluoro-1-octanesulfonamide (N-MeFOSA) | U | ND | 1.15 | 3.50 | ng/L | 0.0175 | 1 | | | | | |
| N-methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA) | U | ND | 1.15 | 3.50 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorobutanesulfonic acid (PFBS) | U | ND | 0.577 | 1.56 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorobutanoic acid (PFBA) | U | ND | 0.699 | 1.75 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorodecanesulfonic acid (PFDS) | U | ND | 0.577 | 1.70 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorodecanoic acid (PFDA) | U | ND | 0.682 | 1.75 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorododecanesulfonic acid (PFDoS) | U | ND | 0.577 | 3.50 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorododecanoic acid (PFDOA) | U | ND | 0.577 | 1.75 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoroheptanesulfonic acid (PFHpS) | U | ND | 0.577 | 1.66 | ng/L | 0.0175 | 1 | | | | | |

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Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: 6007-Devon-Post-20250612 Project: NCDQ00117
Sample ID: 728764004 Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCMSMS PFCs | | | | | | | | | | | | |
| EPA 537Mod PFCs by LC-MS/MS "As Received" | | | | | | | | | | | | |
| Perfluoroheptanoic acid (PFHpA) | U | ND | 0.577 | 1.75 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorohexadecanoic acid (PFHxDA) | U | ND | 1.15 | 3.50 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorohexanesulfonic acid (PFHxS) | U | ND | 0.577 | 1.59 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorohexanoic acid (PFHxA) | U | ND | 0.699 | 1.75 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorononanesulfonic acid (PFNS) | U | ND | 0.612 | 1.68 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorononanoic acid (PFNA) | U | ND | 0.577 | 1.75 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorooctadecanoic acid (PFODA) | U | ND | 1.15 | 3.50 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorooctanesulfonic acid (PFOS) | U | ND | 0.699 | 1.75 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorooctanesulfonamide (PFOSA) | U | ND | 0.577 | 1.75 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorooctanoic acid (PFOA) | U | ND | 0.699 | 1.75 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoropentanesulfonic acid (PFPeS) | U | ND | 0.577 | 1.64 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoropentanoic acid (PFPeA) | U | ND | 0.577 | 1.75 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorotetradecanoic acid (PFTA) | U | ND | 0.699 | 1.75 | ng/L | 0.0175 | 1 | | | | | |
| Perfluorotridecanoic Acid (PFTriA) | U | ND | 0.577 | 1.75 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoroundecanoic acid (PFUnA) | U | ND | 0.577 | 1.75 | ng/L | 0.0175 | 1 | | | | | |
| 1,1,2,2-Tetrafluoro-2-(1,2,2,2-tetrafluoroethoxy)ethane sulfonic acid (NVHOS) | UFG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | RR3 | 06/17/25 | 1110 | 2814155 | 2 |
| 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (Gen-X) | U | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| 4-(Heptafluoroisopropoxy)hexafluorobutanoic acid (PFECA-G) | UXG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Nafion Byproduct 4 (PFESA BP4) | UFG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Nafion Byproduct 5 (PFESA BP5) | UFG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Nafion Byproduct 6 (PFESA BP6) | UXG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Hydro-EVE | UFG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Nafion Byproduct 1 (PFESA BP1) | UG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Nafion Byproduct 2 (PFESA BP2) | UG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA or PFECA B) | U | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoro(2-ethoxyethane)sulfonic | U | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |

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Project: Routine Analysis

Client Sample ID: 6007-Devon-Post-20250612 Project: NCDQ00117
Sample ID: 728764004 Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCMSMS PFCs | | | | | | | | | | | | |
| EPA 537Mod PFCs by LC-MS/MS "As Received" | | | | | | | | | | | | |
| acid (PFEESA or PES) | | | | | | | | | | | | |
| Perfluoro(3,5,7,9,11-pentaoxadodecanoic) acid (PFO5DA or TAFN4) | UFG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA) | UFG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA) | UFG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA) | UG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoro-(2,5,8-trimethyl-3,6,9-trioxadodecanoic) acid (HFPO-TeA) | U | ND | 1.75 | 5.24 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid (HFPO-TrA) | U | ND | 1.75 | 5.24 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoro-2-(perfluoromethoxy)propanoic acid (PMPA) | UG | ND | 0.175 | 0.350 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoro-2-methoxyacetic acid (PFMOAA) | UG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoro-3-methoxypropanoic acid (PFMOPrA) | U | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoro(4-methoxybutanoic) acid (PFMOBA) | U | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoroethoxypropionic acid (EVE) | UXG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| 2,3,3,3-Tetrafluoro-2-(pentafluoroethoxy)propanoic acid (PEPA) | UG | ND | 0.175 | 0.437 | ng/L | 0.0175 | 1 | | | | | |
| Perfluoropropanoic acid (PFPrA) | UG | ND | 3.50 | 8.74 | ng/L | 0.0175 | 1 | | | | | |
| R-EVE | UXG | ND | 1.15 | 3.50 | ng/L | 0.0175 | 1 | | | | | |
| Volatile Organics | | | | | | | | | | | | |
| SW846 8260 Volatiles "As Received" | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | AXH5 | 06/19/25 | 1244 | 2816289 | 3 |
| 1,1,1-Trichloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1,2,2-Tetrachloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1,2-Trichloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1-Dichloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1-Dichloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |

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Sample ID: 728764004 Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics | | | | | | | | | | | | |
| SW846 8260 Volatiles "As Received" | | | | | | | | | | | | |
| 1,1-Dichloropropene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2,3-Trichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2,4-Trichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2-Dibromo-3-chloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2-Dibromoethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2-Dichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2-Dichloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2-Dichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,3-Dichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,3-Dichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,4-Dichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 2,2-Dichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 2-Butanone | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| 2-Chloro-1,3-butadiene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 2-Hexanone | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| 4-Methyl-2-pentanone | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Acetone | J | 2.54 | 1.74 | 5.00 | ug/L | | 1 | | | | | |
| Acetonitrile | U | ND | 8.33 | 25.0 | ug/L | | 1 | | | | | |
| Acrolein | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Acrylonitrile | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Allyl chloride | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Benzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Bromochloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Bromodichloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Bromoform | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Bromomethane | U | ND | 0.337 | 1.00 | ug/L | | 1 | | | | | |
| Carbon disulfide | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Carbon tetrachloride | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Chlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Chloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Chloroform | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Chloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Dibromochloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Dibromomethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Dichlorodifluoromethane | U | ND | 0.355 | 1.00 | ug/L | | 1 | | | | | |
| Ethyl methacrylate | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: 6007-Devon-Post-20250612 Project: NCDQ00117
Sample ID: 728764004 Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics | | | | | | | | | | | | |
| SW846 8260 Volatiles "As Received" | | | | | | | | | | | | |
| Ethylbenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Iodomethane | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Isobutyl alcohol | U | ND | 16.7 | 50.0 | ug/L | | 1 | | | | | |
| Methacrylonitrile | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Methyl methacrylate | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Methylene chloride | U | ND | 0.500 | 5.00 | ug/L | | 1 | | | | | |
| Propionitrile | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Styrene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Tetrachloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Toluene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Trichloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Trichlorofluoromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Vinyl acetate | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Vinyl chloride | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Xylenes (total) | U | ND | 1.00 | 3.00 | ug/L | | 1 | | | | | |
| cis-1,2-Dichloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| cis-1,3-Dichloropropylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| m,p-Xylenes | U | ND | 0.500 | 2.00 | ug/L | | 1 | | | | | |
| o-Xylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| trans-1,2-Dichloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| trans-1,3-Dichloropropylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| trans-1,4-Dichloro-2-butene | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |

The following Prep Methods were performed:

| Method | Description | Analyst | Date | Time | Prep Batch |
|---|---|---|---|---|---|
| EPA 537.1 Modified | PFCs Extraction in Liquid | MR3 | 06/16/25 | 1144 | 2814154 |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|---|---|---|
| 1 | EPA 537.1 Modified | |
| 2 | EPA 537.1 Modified | |
| 3 | SW846 8260D | |

| Surrogate/Tracer Recovery | Test | Result | Nominal | Recovery% | Acceptable Limits |
|---|---|---|---|---|---|
| Bromofluorobenzene | SW846 8260 Volatiles "As Received" | 47.4 ug/L | 50.0 | 95 | (74%-123%) |
| 1,2-Dichloroethane-d4 | SW846 8260 Volatiles "As Received" | 49.2 ug/L | 50.0 | 98 | (76%-127%) |

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# *Certificate of Analysis*

Report Date: June 23, 2025

| | |
|---|---|
| Company : | NC Dept Environmental Quality |
| Address : | 1646 Mail Service Center |
| | Raleigh, North Carolina 27699 |
| Contact: | Mr. Mark Webb |
| Project: | Routine Analysis |

| | | | |
|---|---|---|---|
| Client Sample ID: | 6007-Devon-Post-20250612 | Project: | NCDQ00117 |
| Sample ID: | 728764004 | Client ID: | NCDQ001 |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Toluene-d8 | | SW846 8260 Volatiles "As Received" | | 50.4 | ug/L | 50.0 | | 101 | (77%-121%) | | |

**Notes:**

*Column headers are defined as follows:*

| | |
|---|---|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: Trip Blank
Sample ID: 728764005
Matrix: Ground Water
Collect Date: 12-JUN-25 12:00
Receive Date: 13-JUN-25
Collector: Client

Project: NCDQ00117
Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics | | | | | | | | | | | | |
| SW846 8260 Volatiles "As Received" | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | AXH5 | 06/19/25 | 1309 | 2816289 | 1 |
| 1,1,1-Trichloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1,2,2-Tetrachloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1,2-Trichloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1-Dichloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1-Dichloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,1-Dichloropropene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2,3-Trichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2,4-Trichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2-Dibromo-3-chloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2-Dibromoethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2-Dichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2-Dichloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,2-Dichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,3-Dichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,3-Dichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 1,4-Dichlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 2,2-Dichloropropane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 2-Butanone | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| 2-Chloro-1,3-butadiene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| 2-Hexanone | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| 4-Methyl-2-pentanone | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Acetone | U | ND | 1.74 | 5.00 | ug/L | | 1 | | | | | |
| Acetonitrile | U | ND | 8.33 | 25.0 | ug/L | | 1 | | | | | |
| Acrolein | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Acrylonitrile | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Allyl chloride | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Benzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Bromochloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Bromodichloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Bromoform | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Bromomethane | U | ND | 0.337 | 1.00 | ug/L | | 1 | | | | | |
| Carbon disulfide | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Carbon tetrachloride | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Chlorobenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Chloroethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |

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# *Certificate of Analysis*

Report Date: June 23, 2025

Company : NC Dept Environmental Quality
Address : 1646 Mail Service Center

Raleigh, North Carolina 27699
Contact: Mr. Mark Webb
Project: Routine Analysis

Client Sample ID: Trip Blank
Sample ID: 728764005

Project: NCDQ00117
Client ID: NCDQ001

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volatile Organics | | | | | | | | | | | | |
| SW846 8260 Volatiles "As Received" | | | | | | | | | | | | |
| Chloroform | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Chloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Dibromochloromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Dibromomethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Dichlorodifluoromethane | U | ND | 0.355 | 1.00 | ug/L | | 1 | | | | | |
| Ethyl methacrylate | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Ethylbenzene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Iodomethane | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Isobutyl alcohol | U | ND | 16.7 | 50.0 | ug/L | | 1 | | | | | |
| Methacrylonitrile | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Methyl methacrylate | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Methylene chloride | U | ND | 0.500 | 5.00 | ug/L | | 1 | | | | | |
| Propionitrile | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Styrene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Tetrachloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Toluene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Trichloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Trichlorofluoromethane | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Vinyl acetate | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |
| Vinyl chloride | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| Xylenes (total) | U | ND | 1.00 | 3.00 | ug/L | | 1 | | | | | |
| cis-1,2-Dichloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| cis-1,3-Dichloropropylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| m,p-Xylenes | U | ND | 0.500 | 2.00 | ug/L | | 1 | | | | | |
| o-Xylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| trans-1,2-Dichloroethylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| trans-1,3-Dichloropropylene | U | ND | 0.333 | 1.00 | ug/L | | 1 | | | | | |
| trans-1,4-Dichloro-2-butene | U | ND | 1.67 | 5.00 | ug/L | | 1 | | | | | |

The following Analytical Methods were performed:

| Method | Description | Analyst Comments |
|---|---|---|
| 1 | SW846 8260D | |

| Surrogate/Tracer Recovery | Test | Result | Nominal | Recovery% | Acceptable Limits |
|---|---|---|---|---|---|
| Bromofluorobenzene | SW846 8260 Volatiles "As Received" | 45.6 ug/L | 50.0 | 91 | (74%-123%) |
| 1,2-Dichloroethane-d4 | SW846 8260 Volatiles "As Received" | 47.3 ug/L | 50.0 | 95 | (76%-127%) |
| Toluene-d8 | SW846 8260 Volatiles "As Received" | 49.3 ug/L | 50.0 | 99 | (77%-121%) |

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# *Certificate of Analysis*

Report Date: June 23, 2025

| | |
|---|---|
| Company : | NC Dept Environmental Quality |
| Address : | 1646 Mail Service Center |
| | Raleigh, North Carolina 27699 |
| Contact: | Mr. Mark Webb |
| Project: | Routine Analysis |

| | | | |
|---|---|---|---|
| Client Sample ID: | Trip Blank | Project: | NCDQ00117 |
| Sample ID: | 728764005 | Client ID: | NCDQ001 |

| Parameter | Qualifier | Result | DL | RL | Units | PF | DF | Analyst | Date | Time | Batch | Method |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Notes:**

*Column headers are defined as follows:*

| | |
|---|---|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

## *QC Summary*

**Report Date: June 23, 2025**



**NC Dept Environmental Quality**
**1646 Mail Service Center**
**Raleigh, North Carolina**

**Contact:** **Mr. Mark Webb**

**Workorder:** **728764**

| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|
| **Perfluorinated Compounds** | | | | | | | | | | |
| Batch 2814155 | | | | | | | | | | |
| QC1206141837 LCS | | | | | | | | | | |
| 1,1,2,2-Tetrafluoro-2-(1,2,2,2-tetrafluoroethoxy)ethane sulfonic acid (NVHOS) | 19.0 | | FG | 20.9 | ng/L | | 110 | (57%-151%) | RR3 | 06/17/25 09:24 |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor) | 18.0 | | | 15.4 | ng/L | | 86 | (59%-138%) | JMB3 | 06/16/25 17:22 |
| 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (Gen-X) | 19.0 | | | 19.1 | ng/L | | 101 | (62%-140%) | RR3 | 06/17/25 09:24 |
| 2,3,3,3-Tetrafluoro-2-(pentafluoroethoxy)propanoic acid (PEPA) | 19.0 | | G | 18.9 | ng/L | | 99 | (62%-141%) | | |
| 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) | 19.0 | | | 17.1 | ng/L | | 90 | (58%-133%) | JMB3 | 06/16/25 17:22 |
| 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE) | 19.0 | | | 17.8 | ng/L | | 94 | (56%-145%) | | |
| 4,8-Dioxa-3H-perfluorononanoic acid (DONA,ADONA) | 18.0 | | | 17.9 | ng/L | | 100 | (69%-147%) | | |
| 4-(Heptafluoroisopropoxy)hexafluoro butanoic acid (PFECA-G) | 19.0 | | XG | 18.3 | ng/L | | 96 | (69%-139%) | RR3 | 06/17/25 09:24 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major) | 17.8 | | | 16.8 | ng/L | | 95 | (68%-137%) | JMB3 | 06/16/25 17:22 |
| Fluorotelomer sulfonic acid 4:2 (4:2 FTS) | 17.8 | | | 15.9 | ng/L | | 90 | (54%-148%) | | |
| Fluorotelomer sulfonic acid 6:2 (6:2 FTS) | 18.0 | | | 16.9 | ng/L | | 93 | (61%-150%) | | |
| Fluorotelomer sulfonic acid 8:2 (8:2 FTS) | 18.2 | | | 20.7 | ng/L | | 114 | (57%-147%) | | |
| Hydro-EVE | 19.0 | | FG | 18.3 | ng/L | | 96 | (66%-146%) | RR3 | 06/17/25 09:24 |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|
| **Perfluorinated Compounds** | | | | | | | | | | |
| Batch 2814155 | | | | | | | | | | |
| N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA) | 19.0 | | | 17.9 | ng/L | | 94 | (40%-152%) | JMB3 | 06/16/25 17:22 |
| N-ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA) | 19.0 | | | 18.0 | ng/L | | 95 | (60%-139%) | | |
| N-methylperfluoro-1-octanesulfonamide (N-MeFOSA) | 19.0 | | | 18.8 | ng/L | | 99 | (41%-150%) | | |
| N-methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA) | 19.0 | | | 18.1 | ng/L | | 96 | (64%-144%) | | |
| Nafion Byproduct 1 (PFESA BP1) | 19.0 | | G | 16.8 | ng/L | | 89 | (40%-131%) | RR3 | 06/17/25 09:24 |
| Nafion Byproduct 2 (PFESA BP2) | 19.0 | | G | 17.5 | ng/L | | 92 | (60%-139%) | | |
| Nafion Byproduct 4 (PFESA BP4) | 19.0 | | FG | 22.6 | ng/L | | 119 | (8%-158%) | | |
| Nafion Byproduct 5 (PFESA BP5) | 19.0 | | FG | 32.7 | ng/L | | 172 | (14%-224%) | | |
| Nafion Byproduct 6 (PFESA BP6) | 19.0 | | XG | 17.6 | ng/L | | 92 | (64%-140%) | | |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA or PFECA B) | 19.0 | | | 17.8 | ng/L | | 94 | (55%-144%) | | |
| Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA or PES) | 16.9 | | | 16.6 | ng/L | | 98 | (60%-145%) | | |
| Perfluoro(3,5,7,9,11-pentaoxadodecanoic) acid (PFO5DA or TAFN4) | 19.0 | | FG | 15.8 | ng/L | | 83 | (57%-143%) | | |
| Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA) | 19.0 | | FG | 18.1 | ng/L | | 95 | (63%-147%) | | |
| Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA) | 19.0 | | FG | 18.1 | ng/L | | 95 | (66%-143%) | | |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|
| **Perfluorinated Compounds** | | | | | | | | | | |
| Batch 2814155 | | | | | | | | | | |
| Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA) | 19.0 | | G | 18.8 | ng/L | | 99 | (64%-140%) | RR3 | 06/17/25 09:24 |
| Perfluoro(4-methoxybutanoic) acid (PFMOBA) | 19.0 | | | 17.4 | ng/L | | 92 | (62%-142%) | | |
| Perfluoro-(2,5,8-trimethyl-3,6,9-trioxadodecanoic) acid (HFPO-TeA) | 19.0 | | | 17.8 | ng/L | | 94 | (36%-140%) | | |
| Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid (HFPO-TrA) | 19.0 | | | 18.9 | ng/L | | 99 | (36%-143%) | | |
| Perfluoro-2-(perfluoromethoxy)propanoic acid (PMPA) | 19.0 | | G | 18.7 | ng/L | | 99 | (56%-144%) | | |
| Perfluoro-2-methoxyacetic acid (PFMOAA) | 19.0 | | G | 17.1 | ng/L | | 90 | (57%-140%) | | |
| Perfluoro-3-methoxypropanoic acid (PFMOPrA) | 19.0 | | | 19.1 | ng/L | | 101 | (64%-147%) | | |
| Perfluorobutanesulfonic acid (PFBS) | 16.8 | | | 16.4 | ng/L | | 97 | (70%-139%) | JMB3 | 06/16/25 17:22 |
| Perfluorobutanoic acid (PFBA) | 19.0 | | | 18.4 | ng/L | | 97 | (77%-146%) | | |
| Perfluorodecanesulfonic acid (PFDS) | 18.3 | | | 16.3 | ng/L | | 89 | (62%-133%) | | |
| Perfluorodecanoic acid (PFDA) | 19.0 | | | 20.4 | ng/L | | 107 | (68%-140%) | | |
| Perfluorododecanesulfonic acid (PFDoS) | 18.4 | | | 15.0 | ng/L | | 81 | (55%-135%) | | |
| Perfluorododecanoic acid (PFDOA) | 19.0 | | | 19.5 | ng/L | | 103 | (69%-139%) | | |
| Perfluoroethoxypropionic acid (EVE) | 19.0 | | XG | 16.6 | ng/L | | 87 | (34%-140%) | RR3 | 06/17/25 09:24 |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|
| **Perfluorinated Compounds** | | | | | | | | | | |
| Batch 2814155 | | | | | | | | | | |
| Perfluoroheptanesulfonic acid (PFHpS) | 18.1 | | | 17.7 | ng/L | | 98 | (67%-141%) | JMB3 | 06/16/25 17:22 |
| Perfluoroheptanoic acid (PFHpA) | 19.0 | | | 18.0 | ng/L | | 95 | (71%-138%) | | |
| Perfluorohexadecanoic acid (PFHxDA) | 19.0 | | | 19.5 | ng/L | | 103 | (59%-160%) | | |
| Perfluorohexanesulfonic acid (PFHxS) | 17.4 | | | 16.9 | ng/L | | 97 | (63%-142%) | | |
| Perfluorohexanoic acid (PFHxA) | 19.0 | | | 19.6 | ng/L | | 103 | (71%-139%) | | |
| Perfluorononanesulfonic acid (PFNS) | 18.2 | | | 16.9 | ng/L | | 93 | (67%-134%) | | |
| Perfluorononanoic acid (PFNA) | 19.0 | | | 18.7 | ng/L | | 98 | (71%-136%) | | |
| Perfluorooctadecanoic acid (PFODA) | 19.0 | | | 14.1 | ng/L | | 74 | (8%-124%) | | |
| Perfluorooctanesulfonamide (PFOSA) | 19.0 | | | 17.0 | ng/L | | 90 | (68%-137%) | | |
| Perfluorooctanesulfonic acid (PFOS) | 17.7 | | | 16.1 | ng/L | | 91 | (68%-141%) | | |
| Perfluorooctanoic acid (PFOA) | 19.0 | | | 18.7 | ng/L | | 99 | (70%-138%) | | |
| Perfluoropentanesulfonic acid (PFPeS) | 17.9 | | | 17.3 | ng/L | | 97 | (63%-141%) | | |
| Perfluoropentanoic acid (PFPeA) | 19.0 | | | 18.9 | ng/L | | 100 | (71%-139%) | | |
| Perfluoropropanoic acid (PFPrA) | 19.0 | | G | 24.4 | ng/L | | 128 | (54%-156%) | RR3 | 06/17/25 09:24 |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|
| **Perfluorinated Compounds** | | | | | | | | | | |
| Batch 2814155 | | | | | | | | | | |
| Perfluorotetradecanoic acid (PFTA) | 19.0 | | | 18.3 | ng/L | | 96 | (70%-138%) | JMB3 | 06/16/25 17:22 |
| Perfluorotridecanoic Acid (PFTriA) | 19.0 | | | 20.1 | ng/L | | 106 | (61%-141%) | | |
| Perfluoroundecanoic acid (PFUnA) | 19.0 | | | 18.3 | ng/L | | 96 | (68%-139%) | | |
| R-EVE | 19.0 | | XG | 19.7 | ng/L | | 104 | (25%-144%) | RR3 | 06/17/25 09:24 |
| QC1206141836 MB | | | | | | | | | | |
| 1,1,2,2-Tetrafluoro-2-(1,2,2,2-tetrafluoroethoxy)ethane sulfonic acid (NVHOS) | | | UFG | ND | ng/L | | | | | 06/17/25 09:08 |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor) | | | U | ND | ng/L | | | | JMB3 | 06/16/25 17:13 |
| 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (Gen-X) | | | U | ND | ng/L | | | | RR3 | 06/17/25 09:08 |
| 2,3,3,3-Tetrafluoro-2-(pentafluoroethoxy)propanoic acid (PEPA) | | | UG | ND | ng/L | | | | | |
| 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) | | | U | ND | ng/L | | | | JMB3 | 06/16/25 17:13 |
| 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE) | | | U | ND | ng/L | | | | | |
| 4,8-Dioxa-3H-perfluorononanoic acid (DONA,ADONA) | | | U | ND | ng/L | | | | | |
| 4-(Heptafluoroisopropoxy)hexafluoro butanoic acid (PFECA-G) | | | UXG | ND | ng/L | | | | RR3 | 06/17/25 09:08 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major) | | | U | ND | ng/L | | | | JMB3 | 06/16/25 17:13 |
| Fluorotelomer sulfonic acid 4:2 (4:2 FTS) | | | U | ND | ng/L | | | | | |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|
| **Perfluorinated Compounds** | | | | | | | | | | |
| Batch 2814155 | | | | | | | | | | |
| Fluorotelomer sulfonic acid 6:2 (6:2 FTS) | | | U | ND | ng/L | | | | JMB3 | 06/16/25 17:13 |
| Fluorotelomer sulfonic acid 8:2 (8:2 FTS) | | | U | ND | ng/L | | | | | |
| Hydro-EVE | | | UFG | ND | ng/L | | | | RR3 | 06/17/25 09:08 |
| N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA) | | | U | ND | ng/L | | | | JMB3 | 06/16/25 17:13 |
| N-ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA) | | | U | ND | ng/L | | | | | |
| N-methylperfluoro-1-octanesulfonamide (N-MeFOSA) | | | U | ND | ng/L | | | | | |
| N-methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA) | | | U | ND | ng/L | | | | | |
| Nafion Byproduct 1 (PFESA BP1) | | | UG | ND | ng/L | | | | RR3 | 06/17/25 09:08 |
| Nafion Byproduct 2 (PFESA BP2) | | | UG | ND | ng/L | | | | | |
| Nafion Byproduct 4 (PFESA BP4) | | | UFG | ND | ng/L | | | | | |
| Nafion Byproduct 5 (PFESA BP5) | | | UFG | ND | ng/L | | | | | |
| Nafion Byproduct 6 (PFESA BP6) | | | UXG | ND | ng/L | | | | | |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA or PFECA B) | | | U | ND | ng/L | | | | | |
| Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA or PES) | | | U | ND | ng/L | | | | | |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|
| **Perfluorinated Compounds** | | | | | | | | | | |
| Batch 2814155 | | | | | | | | | | |
| Perfluoro(3,5,7,9,11-pentaoxadodecanoic) acid (PFO5DA or TAFN4) | | | UFG | ND | ng/L | | | | RR3 | 06/17/25 09:08 |
| Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA) | | | UFG | ND | ng/L | | | | | |
| Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA) | | | UFG | ND | ng/L | | | | | |
| Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA) | | | UG | ND | ng/L | | | | | |
| Perfluoro(4-methoxybutanoic) acid (PFMOBA) | | | U | ND | ng/L | | | | | |
| Perfluoro-(2,5,8-trimethyl-3,6,9-trioxadodecanoic) acid (HFPO-TeA) | | | U | ND | ng/L | | | | | |
| Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid (HFPO-TrA) | | | U | ND | ng/L | | | | | |
| Perfluoro-2-(perfluoromethoxy)propanoic acid (PMPA) | | | UG | ND | ng/L | | | | | |
| Perfluoro-2-methoxyacetic acid (PFMOAA) | | | UG | ND | ng/L | | | | | |
| Perfluoro-3-methoxypropanoic acid (PFMOPrA) | | | U | ND | ng/L | | | | | |
| Perfluorobutanesulfonic acid (PFBS) | | | U | ND | ng/L | | | | JMB3 | 06/16/25 17:13 |
| Perfluorobutanoic acid (PFBA) | | | U | ND | ng/L | | | | | |
| Perfluorodecanesulfonic acid (PFDS) | | | U | ND | ng/L | | | | | |
| Perfluorodecanoic acid (PFDA) | | | U | ND | ng/L | | | | | |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|
| **Perfluorinated Compounds** | | | | | | | | | | |
| Batch 2814155 | | | | | | | | | | |
| Perfluorododecanesulfonic acid (PFDoS) | | | U | ND | ng/L | | | | JMB3 | 06/16/25 17:13 |
| Perfluorododecanoic acid (PFDOA) | | | U | ND | ng/L | | | | | |
| Perfluoroethoxypropionic acid (EVE) | | | UXG | ND | ng/L | | | | RR3 | 06/17/25 09:08 |
| Perfluoroheptanesulfonic acid (PFHpS) | | | U | ND | ng/L | | | | JMB3 | 06/16/25 17:13 |
| Perfluoroheptanoic acid (PFHpA) | | | U | ND | ng/L | | | | | |
| Perfluorohexadecanoic acid (PFHxDA) | | | U | ND | ng/L | | | | | |
| Perfluorohexanesulfonic acid (PFHxS) | | | U | ND | ng/L | | | | | |
| Perfluorohexanoic acid (PFHxA) | | | U | ND | ng/L | | | | | |
| Perfluorononanesulfonic acid (PFNS) | | | U | ND | ng/L | | | | | |
| Perfluorononanoic acid (PFNA) | | | U | ND | ng/L | | | | | |
| Perfluorooctadecanoic acid (PFODA) | | | U | ND | ng/L | | | | | |
| Perfluorooctanesulfonamide (PFOSA) | | | U | ND | ng/L | | | | | |
| Perfluorooctanesulfonic acid (PFOS) | | | U | ND | ng/L | | | | | |
| Perfluorooctanoic acid (PFOA) | | | U | ND | ng/L | | | | | |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|
| **Perfluorinated Compounds** | | | | | | | | | | |
| Batch 2814155 | | | | | | | | | | |
| Perfluoropentanesulfonic acid (PFPeS) | | | U | ND | ng/L | | | | JMB3 | 06/16/25 17:13 |
| Perfluoropentanoic acid (PFPeA) | | | U | ND | ng/L | | | | | |
| Perfluoropropanoic acid (PFPrA) | | | UG | ND | ng/L | | | | RR3 | 06/17/25 09:08 |
| Perfluorotetradecanoic acid (PFTA) | | | U | ND | ng/L | | | | JMB3 | 06/16/25 17:13 |
| Perfluorotridecanoic Acid (PFTriA) | | | U | ND | ng/L | | | | | |
| Perfluoroundecanoic acid (PFUnA) | | | U | ND | ng/L | | | | | |
| R-EVE | | | UXG | ND | ng/L | | | | RR3 | 06/17/25 09:08 |
| QC1206141838 728764001 MS | | | | | | | | | | |
| 1,1,2,2-Tetrafluoro-2-(1,2,2,2-tetrafluoroethoxy)ethane sulfonic acid (NVHOS) | 17.4 UFG | ND | FG | 21.2 | ng/L | | 122 | (40%-160%) | | 06/17/25 09:54 |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor) | 16.5 U | ND | | 15.3 | ng/L | | 93 | (39%-141%) | JMB3 | 06/16/25 17:40 |
| 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (Gen-X) | 17.4 U | ND | | 16.2 | ng/L | | 93 | (53%-162%) | RR3 | 06/17/25 09:54 |
| 2,3,3,3-Tetrafluoro-2-(pentafluoroethoxy)propanoic acid (PEPA) | 17.4 UG | ND | G | 17.1 | ng/L | | 98 | (47%-153%) | | |
| 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) | 17.4 U | ND | | 15.8 | ng/L | | 91 | (39%-142%) | JMB3 | 06/16/25 17:40 |
| 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE) | 17.4 U | ND | | 16.2 | ng/L | | 93 | (43%-147%) | | |
| 4,8-Dioxa-3H-perfluorononanoic acid (DONA,ADONA) | 16.5 U | ND | | 17.3 | ng/L | | 105 | (58%-139%) | | |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|
| **Perfluorinated Compounds** | | | | | | | | | | |
| Batch 2814155 | | | | | | | | | | |
| 4-(Heptafluoroisopropoxy)hexafluorobutanoic acid (PFECA-G) | 17.4 UXG | ND | XG | 15.8 | ng/L | | 91 | (54%-153%) | RR3 | 06/17/25 09:54 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major) | 16.3 U | ND | | 14.4 | ng/L | | 88 | (54%-143%) | JMB3 | 06/16/25 17:40 |
| Fluorotelomer sulfonic acid 4:2 (4:2 FTS) | 16.3 U | ND | | 16.4 | ng/L | | 101 | (50%-156%) | | |
| Fluorotelomer sulfonic acid 6:2 (6:2 FTS) | 16.5 U | ND | | 16.0 | ng/L | | 97 | (51%-158%) | | |
| Fluorotelomer sulfonic acid 8:2 (8:2 FTS) | 16.7 U | ND | | 17.1 | ng/L | | 103 | (45%-155%) | | |
| Hydro-EVE | 17.4 UFG | ND | FG | 16.8 | ng/L | | 96 | (32%-468%) | RR3 | 06/17/25 09:54 |
| N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA) | 17.4 U | ND | | 18.1 | ng/L | | 104 | (33%-140%) | JMB3 | 06/16/25 17:40 |
| N-ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA) | 17.4 U | ND | | 17.8 | ng/L | | 102 | (44%-149%) | | |
| N-methylperfluoro-1-octanesulfonamide (N-MeFOSA) | 17.4 U | ND | | 15.7 | ng/L | | 90 | (32%-152%) | | |
| N-methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA) | 17.4 U | ND | | 16.2 | ng/L | | 93 | (46%-150%) | | |
| Nafion Byproduct 1 (PFESA BP1) | 17.4 UG | ND | G | 15.2 | ng/L | | 87 | (31%-144%) | RR3 | 06/17/25 09:54 |
| Nafion Byproduct 2 (PFESA BP2) | 17.4 UG | ND | G | 15.6 | ng/L | | 89 | (41%-159%) | | |
| Nafion Byproduct 4 (PFESA BP4) | 17.4 UFG | ND | FG | 93.3 | ng/L | | 536* | (15%-175%) | | |
| Nafion Byproduct 5 (PFESA BP5) | 17.4 UFG | ND | FG | 56.6 | ng/L | | 325* | (15%-171%) | | |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|
| **Perfluorinated Compounds** | | | | | | | | | | |
| Batch 2814155 | | | | | | | | | | |
| Nafion Byproduct 6 (PFESA BP6) | 17.4 UXG | ND | XG | 15.3 | ng/L | | 88 | (50%-151%) | RR3 | 06/17/25 09:54 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA or PFECA B) | 17.4 U | ND | | 15.2 | ng/L | | 87 | (46%-163%) | | |
| Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA or PES) | 15.5 U | ND | | 13.9 | ng/L | | 90 | (51%-150%) | | |
| Perfluoro(3,5,7,9,11-pentaoxadodecanoic) acid (PFO5DA or TAFN4) | 17.4 UFG | ND | FG | 14.4 | ng/L | | 83 | (38%-163%) | | |
| Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA) | 17.4 UFG | ND | FG | 16.0 | ng/L | | 92 | (49%-166%) | | |
| Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA) | 17.4 UFG | ND | FG | 17.5 | ng/L | | 100 | (50%-162%) | | |
| Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA) | 17.4 UG | ND | G | 18.9 | ng/L | | 109 | (43%-161%) | | |
| Perfluoro(4-methoxybutanoic) acid (PFMOBA) | 17.4 U | ND | | 16.2 | ng/L | | 93 | (42%-154%) | | |
| Perfluoro-(2,5,8-trimethyl-3,6,9-trioxadodecanoic) acid (HFPO-TeA) | 17.4 U | ND | | 16.0 | ng/L | | 92 | (50%-150%) | | |
| Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid (HFPO-TrA) | 17.4 U | ND | | 16.0 | ng/L | | 92 | (50%-150%) | | |
| Perfluoro-2-(perfluoromethoxy)propanoic acid (PMPA) | 17.4 UG | ND | G | 16.0 | ng/L | | 92 | (46%-158%) | | |
| Perfluoro-2-methoxyacetic acid (PFMOAA) | 17.4 UG | ND | G | 13.9 | ng/L | | 80 | (43%-161%) | | |
| Perfluoro-3-methoxypropanoic acid (PFMOPrA) | 17.4 U | ND | | 22.2 | ng/L | | 128 | (33%-169%) | | |
| Perfluorobutanesulfonic acid (PFBS) | 15.4 | 14.3 | | 29.9 | ng/L | | 101 | (55%-152%) | JMB3 | 06/16/25 17:40 |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Perfluorinated Compounds** | | | | | | | | | | | |
| Batch 2814155 | | | | | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 17.4 | | 2.78 | | 19.0 | ng/L | | 93 | (54%-160%) | JMB3 | 06/16/25 17:40 |
| Perfluorodecanesulfonic acid (PFDS) | 16.8 | U | ND | | 14.7 | ng/L | | 87 | (48%-139%) | | |
| Perfluorodecanoic acid (PFDA) | 17.4 | U | ND | | 17.2 | ng/L | | 99 | (50%-147%) | | |
| Perfluorododecanesulfonic acid (PFDoS) | 16.9 | U | ND | | 15.4 | ng/L | | 91 | (41%-143%) | | |
| Perfluorododecanoic acid (PFDOA) | 17.4 | U | ND | | 18.7 | ng/L | | 108 | (49%-146%) | | |
| Perfluoroethoxypropionic acid (EVE) | 17.4 | UXG | ND | XG | 13.9 | ng/L | | 80 | (44%-145%) | RR3 | 06/17/25 09:54 |
| Perfluoroheptanesulfonic acid (PFHpS) | 16.6 | | 4.93 | | 20.1 | ng/L | | 92 | (57%-152%) | JMB3 | 06/16/25 17:40 |
| Perfluoroheptanoic acid (PFHpA) | 17.4 | | 1.87 | | 17.8 | ng/L | | 91 | (55%-149%) | | |
| Perfluorohexadecanoic acid (PFHxDA) | 17.4 | U | ND | | 17.6 | ng/L | | 101 | (37%-152%) | | |
| Perfluorohexanesulfonic acid (PFHxS) | 15.9 | | 145 | | 164 | ng/L | | 125 | (55%-149%) | | |
| Perfluorohexanoic acid (PFHxA) | 17.4 | | 17.1 | | 33.6 | ng/L | | 94 | (49%-154%) | | |
| Perfluorononanesulfonic acid (PFNS) | 16.7 | U | ND | | 15.2 | ng/L | | 91 | (48%-143%) | | |
| Perfluorononanoic acid (PFNA) | 17.4 | U | ND | | 16.8 | ng/L | | 97 | (59%-147%) | | |
| Perfluorooctadecanoic acid (PFODA) | 17.4 | U | ND | | 13.5 | ng/L | | 78 | (22%-144%) | | |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|
| **Perfluorinated Compounds** | | | | | | | | | | |
| Batch 2814155 | | | | | | | | | | |
| Perfluorooctanesulfonamide (PFOSA) | 17.4 U | ND | | 17.1 | ng/L | | 98 | (53%-147%) | JMB3 | 06/16/25 17:40 |
| Perfluorooctanesulfonic acid (PFOS) | 16.2 | 50.1 | | 65.7 | ng/L | | 96 | (47%-155%) | | |
| Perfluorooctanoic acid (PFOA) | 17.4 | 7.22 | | 25.7 | ng/L | | 106 | (52%-150%) | | |
| Perfluoropentanesulfonic acid (PFPeS) | 16.4 | 15.7 | | 28.3 | ng/L | | 77 | (52%-155%) | | |
| Perfluoropentanoic acid (PFPeA) | 17.4 | 4.92 | | 21.8 | ng/L | | 97 | (55%-149%) | | |
| Perfluoropropanoic acid (PFPrA) | 17.4 UG | ND | G | 24.3 | ng/L | | 119 | (27%-146%) | RR3 | 06/17/25 09:54 |
| Perfluorotetradecanoic acid (PFTA) | 17.4 U | ND | | 20.0 | ng/L | | 115 | (45%-149%) | JMB3 | 06/16/25 17:40 |
| Perfluorotridecanoic Acid (PFTriA) | 17.4 U | ND | | 19.9 | ng/L | | 114 | (45%-149%) | | |
| Perfluoroundecanoic acid (PFUnA) | 17.4 U | ND | | 16.6 | ng/L | | 95 | (51%-145%) | | |
| R-EVE | 17.4 UXG | ND | XG | 74.3 | ng/L | | 427* | (29%-172%) | RR3 | 06/17/25 09:54 |
| QC1206141839 728764001 MSD | | | | | | | | | | |
| 1,1,2,2-Tetrafluoro-2-(1,2,2,2-tetrafluoroethoxy)ethane sulfonic acid (NVHOS) | 17.9 UFG | ND | FG | 20.1 | ng/L | 5 | 112 | (0%-30%) | | 06/17/25 10:09 |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor) | 16.9 U | ND | | 14.5 | ng/L | 5 | 86 | (0%-23%) | JMB3 | 06/16/25 17:49 |
| 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (Gen-X) | 17.9 U | ND | | 17.2 | ng/L | 6 | 96 | (0%-25%) | RR3 | 06/17/25 10:09 |
| 2,3,3,3-Tetrafluoro-2-(pentafluoroethoxy)propanoic acid (PEPA) | 17.9 UG | ND | G | 18.3 | ng/L | 7 | 102 | (0%-28%) | | |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Perfluorinated Compounds** | | | | | | | | | | | |
| Batch 2814155 | | | | | | | | | | | |
| 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) | 17.9 | U | ND | | 16.2 | ng/L | 2 | 90 | (0%-40%) | JMB3 | 06/16/25 17:49 |
| 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE) | 17.9 | U | ND | | 18.0 | ng/L | 11 | 100 | (0%-30%) | | |
| 4,8-Dioxa-3H-perfluorononanoic acid (DONA,ADONA) | 16.9 | U | ND | | 18.0 | ng/L | 4 | 106 | (0%-30%) | | |
| 4-(Heptafluoroisopropoxy)hexafluorobutanoic acid (PFECA-G) | 17.9 | UXG | ND | XG | 16.9 | ng/L | 7 | 94 | (0%-20%) | RR3 | 06/17/25 10:09 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major) | 16.8 | U | ND | | 15.4 | ng/L | 7 | 92 | (0%-24%) | JMB3 | 06/16/25 17:49 |
| Fluorotelomer sulfonic acid 4:2 (4:2 FTS) | 16.8 | U | ND | | 13.4 | ng/L | 21 | 80 | (0%-41%) | | |
| Fluorotelomer sulfonic acid 6:2 (6:2 FTS) | 17.0 | U | ND | | 16.6 | ng/L | 4 | 97 | (0%-41%) | | |
| Fluorotelomer sulfonic acid 8:2 (8:2 FTS) | 17.2 | U | ND | | 18.2 | ng/L | 6 | 105 | (0%-46%) | | |
| Hydro-EVE | 17.9 | UFG | ND | FG | 17.1 | ng/L | 2 | 95 | (0%-25%) | RR3 | 06/17/25 10:09 |
| N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA) | 17.9 | U | ND | | 19.0 | ng/L | 5 | 106 | (0%-24%) | JMB3 | 06/16/25 17:49 |
| N-ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA) | 17.9 | U | ND | | 16.5 | ng/L | 7 | 92 | (0%-21%) | | |
| N-methylperfluoro-1-octanesulfonamide (N-MeFOSA) | 17.9 | U | ND | | 17.9 | ng/L | 13 | 100 | (0%-30%) | | |
| N-methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA) | 17.9 | U | ND | | 15.3 | ng/L | 6 | 86 | (0%-34%) | | |
| Nafion Byproduct 1 (PFESA BP1) | 17.9 | UG | ND | G | 16.0 | ng/L | 5 | 89 | (0%-30%) | RR3 | 06/17/25 10:09 |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|
| **Perfluorinated Compounds** | | | | | | | | | | |
| Batch 2814155 | | | | | | | | | | |
| Nafion Byproduct 2 (PFESA BP2) | 17.9 UG | ND | G | 15.3 | ng/L | 2 | 85 | (0%-26%) | RR3 | 06/17/25 10:09 |
| Nafion Byproduct 4 (PFESA BP4) | 17.9 UFG | ND | FG | 94.6 | ng/L | 1 | 528* | (0%-35%) | | |
| Nafion Byproduct 5 (PFESA BP5) | 17.9 UFG | ND | FG | 56.9 | ng/L | 1 | 317* | (0%-31%) | | |
| Nafion Byproduct 6 (PFESA BP6) | 17.9 UXG | ND | XG | 16.4 | ng/L | 6 | 91 | (0%-27%) | | |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA or PFECA B) | 17.9 U | ND | | 16.5 | ng/L | 8 | 92 | (0%-45%) | | |
| Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA or PES) | 16.0 U | ND | | 14.3 | ng/L | 3 | 89 | (0%-22%) | | |
| Perfluoro(3,5,7,9,11-pentaoxadodecanoic) acid (PFO5DA or TAFN4) | 17.9 UFG | ND | FG | 14.8 | ng/L | 2 | 82 | (0%-35%) | | |
| Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA) | 17.9 UFG | ND | FG | 17.3 | ng/L | 8 | 97 | (0%-31%) | | |
| Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA) | 17.9 UFG | ND | FG | 17.8 | ng/L | 2 | 99 | (0%-33%) | | |
| Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA) | 17.9 UG | ND | G | 19.6 | ng/L | 4 | 109 | (0%-29%) | | |
| Perfluoro(4-methoxybutanoic) acid (PFMOBA) | 17.9 U | ND | | 17.5 | ng/L | 8 | 98 | (0%-23%) | | |
| Perfluoro-(2,5,8-trimethyl-3,6,9-trioxadodecanoic) acid (HFPO-TeA) | 17.9 U | ND | | 17.4 | ng/L | 8 | 97 | (0%-30%) | | |
| Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid (HFPO-TrA) | 17.9 U | ND | | 17.5 | ng/L | 9 | 98 | (0%-30%) | | |
| Perfluoro-2-(perfluoromethoxy)propanoic acid (PMPA) | 17.9 UG | ND | G | 16.0 | ng/L | 0 | 89 | (0%-26%) | | |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|
| **Perfluorinated Compounds** | | | | | | | | | | |
| Batch 2814155 | | | | | | | | | | |
| Perfluoro-2-methoxyacetic acid (PFMOAA) | 17.9 UG | ND | G | 15.7 | ng/L | 12 | 87 | (0%-31%) | RR3 | 06/17/25 10:09 |
| Perfluoro-3-methoxypropanoic acid (PFMOPrA) | 17.9 U | ND | | 22.3 | ng/L | 0 | 124 | (0%-23%) | | |
| Perfluorobutanesulfonic acid (PFBS) | 15.9 | 14.3 | | 33.5 | ng/L | 11 | 121 | (0%-19%) | JMB3 | 06/16/25 17:49 |
| Perfluorobutanoic acid (PFBA) | 17.9 | 2.78 | | 20.2 | ng/L | 6 | 97 | (0%-22%) | | |
| Perfluorodecanesulfonic acid (PFDS) | 17.3 U | ND | | 15.9 | ng/L | 8 | 92 | (0%-24%) | | |
| Perfluorodecanoic acid (PFDA) | 17.9 U | ND | | 18.1 | ng/L | 5 | 101 | (0%-32%) | | |
| Perfluorododecanesulfonic acid (PFDoS) | 17.4 U | ND | | 15.3 | ng/L | 1 | 88 | (0%-29%) | | |
| Perfluorododecanoic acid (PFDOA) | 17.9 U | ND | | 17.8 | ng/L | 5 | 99 | (0%-36%) | | |
| Perfluoroethoxypropionic acid (EVE) | 17.9 UXG | ND | XG | 14.2 | ng/L | 2 | 79 | (0%-27%) | RR3 | 06/17/25 10:09 |
| Perfluoroheptanesulfonic acid (PFHpS) | 17.1 | 4.93 | | 21.1 | ng/L | 5 | 94 | (0%-21%) | JMB3 | 06/16/25 17:49 |
| Perfluoroheptanoic acid (PFHpA) | 17.9 | 1.87 | | 20.7 | ng/L | 15 | 105 | (0%-25%) | | |
| Perfluorohexadecanoic acid (PFHxDA) | 17.9 U | ND | | 18.2 | ng/L | 3 | 102 | (0%-37%) | | |
| Perfluorohexanesulfonic acid (PFHxS) | 16.4 | 145 | | 163 | ng/L | 1 | 112 | (0%-37%) | | |
| Perfluorohexanoic acid (PFHxA) | 17.9 | 17.1 | | 36.1 | ng/L | 7 | 106 | (0%-31%) | | |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|
| **Perfluorinated Compounds** | | | | | | | | | | |
| Batch 2814155 | | | | | | | | | | |
| Perfluorononanesulfonic acid (PFNS) | 17.2 U | ND | | 16.0 | ng/L | 5 | 93 | (0%-24%) | JMB3 | 06/16/25 17:49 |
| Perfluorononanoic acid (PFNA) | 17.9 U | ND | | 18.6 | ng/L | 10 | 104 | (0%-26%) | | |
| Perfluorooctadecanoic acid (PFODA) | 17.9 U | ND | | 13.8 | ng/L | 2 | 77 | (0%-77%) | | |
| Perfluorooctanesulfonamide (PFOSA) | 17.9 U | ND | | 17.3 | ng/L | 1 | 96 | (0%-22%) | | |
| Perfluorooctanesulfonic acid (PFOS) | 16.7 | 50.1 | | 66.4 | ng/L | 1 | 98 | (0%-24%) | | |
| Perfluorooctanoic acid (PFOA) | 17.9 | 7.22 | | 25.0 | ng/L | 2 | 99 | (0%-29%) | | |
| Perfluoropentanesulfonic acid (PFPeS) | 16.9 | 15.7 | | 30.8 | ng/L | 9 | 90 | (0%-38%) | | |
| Perfluoropentanoic acid (PFPeA) | 17.9 | 4.92 | | 21.9 | ng/L | 0 | 95 | (0%-20%) | | |
| Perfluoropropanoic acid (PFPrA) | 17.9 UG | ND | G | 23.7 | ng/L | 2 | 113 | (0%-30%) | RR3 | 06/17/25 10:09 |
| Perfluorotetradecanoic acid (PFTA) | 17.9 U | ND | | 18.2 | ng/L | 10 | 101 | (0%-38%) | JMB3 | 06/16/25 17:49 |
| Perfluorotridecanoic Acid (PFTriA) | 17.9 U | ND | | 17.0 | ng/L | 15 | 95 | (0%-37%) | | |
| Perfluoroundecanoic acid (PFUnA) | 17.9 U | ND | | 17.4 | ng/L | 5 | 97 | (0%-35%) | | |
| R-EVE | 17.9 UXG | ND | XG | 62.6 | ng/L | 17 | 349* | (0%-34%) | RR3 | 06/17/25 10:09 |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile-GC/MS** | | | | | | | | | | | |
| Batch 2816289 | | | | | | | | | | | |
| QC1206145964 LCS | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 50.0 | | | 46.5 | ug/L | | 93 | (73%-122%) | AXH5 | 06/19/25 | 09:50 |
| 1,1,1-Trichloroethane | 50.0 | | | 49.2 | ug/L | | 98 | (70%-130%) | | | |
| 1,1,2,2-Tetrachloroethane | 50.0 | | | 44.5 | ug/L | | 89 | (66%-123%) | | | |
| 1,1,2-Trichloroethane | 50.0 | | | 46.6 | ug/L | | 93 | (70%-120%) | | | |
| 1,1-Dichloroethane | 50.0 | | | 51.4 | ug/L | | 103 | (75%-126%) | | | |
| 1,1-Dichloroethylene | 50.0 | | | 47.6 | ug/L | | 95 | (72%-136%) | | | |
| 1,1-Dichloropropene | 50.0 | | | 49.1 | ug/L | | 98 | (68%-120%) | | | |
| 1,2,3-Trichloropropane | 50.0 | | | 43.9 | ug/L | | 88 | (69%-120%) | | | |
| 1,2,4-Trichlorobenzene | 50.0 | | | 56.9 | ug/L | | 114 | (68%-126%) | | | |
| 1,2-Dibromo-3-chloropropane | 50.0 | | | 44.3 | ug/L | | 89 | (58%-130%) | | | |
| 1,2-Dibromoethane | 50.0 | | | 45.1 | ug/L | | 90 | (71%-120%) | | | |
| 1,2-Dichlorobenzene | 50.0 | | | 43.5 | ug/L | | 87 | (72%-120%) | | | |
| 1,2-Dichloroethane | 50.0 | | | 46.2 | ug/L | | 92 | (64%-129%) | | | |
| 1,2-Dichloropropane | 50.0 | | | 48.8 | ug/L | | 98 | (72%-121%) | | | |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile-GC/MS** | | | | | | | | | | | |
| Batch 2816289 | | | | | | | | | | | |
| 1,3-Dichlorobenzene | 50.0 | | | 44.9 | ug/L | | 90 | (72%-120%) | AXH5 | 06/19/25 | 09:50 |
| 1,3-Dichloropropane | 50.0 | | | 49.8 | ug/L | | 100 | (69%-121%) | | | |
| 1,4-Dichlorobenzene | 50.0 | | | 44.6 | ug/L | | 89 | (72%-120%) | | | |
| 2,2-Dichloropropane | 50.0 | | | 51.7 | ug/L | | 103 | (70%-135%) | | | |
| 2-Butanone | 250 | | | 282 | ug/L | | 113 | (63%-134%) | | | |
| 2-Hexanone | 250 | | | 288 | ug/L | | 115 | (58%-143%) | | | |
| 4-Methyl-2-pentanone | 250 | | | 258 | ug/L | | 103 | (65%-125%) | | | |
| Acetone | 250 | | | 322 | ug/L | | 129 | (56%-149%) | | | |
| Acetonitrile | 1250 | | | 1290 | ug/L | | 103 | (56%-135%) | | | |
| Benzene | 50.0 | | | 46.6 | ug/L | | 93 | (74%-128%) | | | |
| Bromochloromethane | 50.0 | | | 43.1 | ug/L | | 86 | (68%-125%) | | | |
| Bromodichloromethane | 50.0 | | | 46.0 | ug/L | | 92 | (72%-126%) | | | |
| Bromoform | 50.0 | | | 42.3 | ug/L | | 85 | (70%-130%) | | | |
| Bromomethane | 50.0 | | | 68.5 | ug/L | | 137 | (64%-142%) | | | |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile-GC/MS** | | | | | | | | | | | |
| Batch 2816289 | | | | | | | | | | | |
| Carbon disulfide | 250 | | | 278 | ug/L | | 111 | (63%-133%) | AXH5 | 06/19/25 | 09:50 |
| Carbon tetrachloride | 50.0 | | | 49.5 | ug/L | | 99 | (70%-135%) | | | |
| Chlorobenzene | 50.0 | | | 45.8 | ug/L | | 92 | (74%-120%) | | | |
| Chloroethane | 50.0 | | | 65.1 | ug/L | | 130 | (66%-140%) | | | |
| Chloroform | 50.0 | | | 47.9 | ug/L | | 96 | (74%-122%) | | | |
| Chloromethane | 50.0 | | | 62.7 | ug/L | | 125 | (56%-142%) | | | |
| Dibromochloromethane | 50.0 | | | 46.9 | ug/L | | 94 | (70%-130%) | | | |
| Dibromomethane | 50.0 | | | 45.8 | ug/L | | 92 | (72%-120%) | | | |
| Dichlorodifluoromethane | 50.0 | | | 50.2 | ug/L | | 100 | (58%-151%) | | | |
| Ethylbenzene | 50.0 | | | 51.7 | ug/L | | 103 | (71%-121%) | | | |
| Iodomethane | 250 | | | 229 | ug/L | | 92 | (69%-128%) | | | |
| Methylene chloride | 50.0 | | B | 51.1 | ug/L | | 102 | (65%-121%) | | | |
| Styrene | 50.0 | | | 49.9 | ug/L | | 100 | (70%-125%) | | | |
| Tetrachloroethylene | 50.0 | | | 49.6 | ug/L | | 99 | (70%-130%) | | | |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile-GC/MS** | | | | | | | | | | | |
| Batch 2816289 | | | | | | | | | | | |
| Toluene | 50.0 | | | 50.5 | ug/L | | 101 | (73%-121%) | AXH5 | 06/19/25 | 09:50 |
| Trichloroethylene | 50.0 | | | 47.9 | ug/L | | 96 | (76%-126%) | | | |
| Trichlorofluoromethane | 50.0 | | | 55.5 | ug/L | | 111 | (63%-136%) | | | |
| Vinyl acetate | 250 | | | 298 | ug/L | | 119 | (65%-133%) | | | |
| Vinyl chloride | 50.0 | | | 61.8 | ug/L | | 124 | (63%-144%) | | | |
| Xylenes (total) | 150 | | | 153 | ug/L | | 102 | (74%-124%) | | | |
| cis-1,2-Dichloroethylene | 50.0 | | | 49.4 | ug/L | | 99 | (73%-122%) | | | |
| cis-1,3-Dichloropropylene | 50.0 | | | 46.2 | ug/L | | 92 | (73%-125%) | | | |
| m,p-Xylenes | 100 | | | 102 | ug/L | | 102 | (70%-123%) | | | |
| o-Xylene | 50.0 | | | 50.5 | ug/L | | 101 | (73%-121%) | | | |
| trans-1,2-Dichloroethylene | 50.0 | | | 49.6 | ug/L | | 99 | (73%-129%) | | | |
| trans-1,3-Dichloropropylene | 50.0 | | | 52.3 | ug/L | | 105 | (70%-126%) | | | |
| **1,2-Dichloroethane-d4 | 50.0 | | | 53.1 | ug/L | | 106 | (76%-127%) | | | |
| **Bromofluorobenzene | 50.0 | | | 48.9 | ug/L | | 98 | (74%-123%) | | | |

# *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile-GC/MS** | | | | | | | | | | |
| Batch 2816289 | | | | | | | | | | |
| **Toluene-d8 | 50.0 | | | 52.3 | ug/L | | 105 | (77%-121%) | AXH5 | 06/19/25 09:50 |
| QC1206145965 LCS | | | | | | | | | | |
| 2-Chloro-1,3-butadiene | 50.0 | | | 51.7 | ug/L | | 103 | (64%-131%) | | 06/19/25 10:16 |
| Acrolein | 250 | | | 304 | ug/L | | 122 | (60%-140%) | | |
| Acrylonitrile | 250 | | | 262 | ug/L | | 105 | (68%-127%) | | |
| Allyl chloride | 250 | | | 298 | ug/L | | 119 | (66%-128%) | | |
| Ethyl methacrylate | 250 | | | 282 | ug/L | | 113 | (66%-125%) | | |
| Isobutyl alcohol | 2500 | | | 2990 | ug/L | | 120 | (65%-137%) | | |
| Methacrylonitrile | 250 | | | 274 | ug/L | | 109 | (65%-126%) | | |
| Methyl methacrylate | 250 | | | 258 | ug/L | | 103 | (68%-122%) | | |
| Propionitrile | 250 | | | 270 | ug/L | | 108 | (64%-127%) | | |
| trans-1,4-Dichloro-2-butene | 250 | | | 301 | ug/L | | 121 | (63%-141%) | | |
| **1,2-Dichloroethane-d4 | 50.0 | | | 53.0 | ug/L | | 106 | (76%-127%) | | |
| **Bromofluorobenzene | 50.0 | | | 53.4 | ug/L | | 107 | (74%-123%) | | |
| **Toluene-d8 | 50.0 | | | 53.0 | ug/L | | 106 | (77%-121%) | | |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile-GC/MS** | | | | | | | | | | |
| Batch 2816289 | | | | | | | | | | |
| QC1206145966 MB | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | | | U | ND | ug/L | | | | AXH5 | 06/19/25 11:06 |
| 1,1,1-Trichloroethane | | | U | ND | ug/L | | | | | |
| 1,1,2,2-Tetrachloroethane | | | U | ND | ug/L | | | | | |
| 1,1,2-Trichloroethane | | | U | ND | ug/L | | | | | |
| 1,1-Dichloroethane | | | U | ND | ug/L | | | | | |
| 1,1-Dichloroethylene | | | U | ND | ug/L | | | | | |
| 1,1-Dichloropropene | | | U | ND | ug/L | | | | | |
| 1,2,3-Trichloropropane | | | U | ND | ug/L | | | | | |
| 1,2,4-Trichlorobenzene | | | U | ND | ug/L | | | | | |
| 1,2-Dibromo-3-chloropropane | | | U | ND | ug/L | | | | | |
| 1,2-Dibromoethane | | | U | ND | ug/L | | | | | |
| 1,2-Dichlorobenzene | | | U | ND | ug/L | | | | | |
| 1,2-Dichloroethane | | | U | ND | ug/L | | | | | |
| 1,2-Dichloropropane | | | U | ND | ug/L | | | | | |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile-GC/MS** | | | | | | | | | | |
| Batch 2816289 | | | | | | | | | | |
| 1,3-Dichlorobenzene | | | U | ND | ug/L | | | | AXH5 | 06/19/25 11:06 |
| 1,3-Dichloropropane | | | U | ND | ug/L | | | | | |
| 1,4-Dichlorobenzene | | | U | ND | ug/L | | | | | |
| 2,2-Dichloropropane | | | U | ND | ug/L | | | | | |
| 2-Butanone | | | U | ND | ug/L | | | | | |
| 2-Chloro-1,3-butadiene | | | U | ND | ug/L | | | | | |
| 2-Hexanone | | | U | ND | ug/L | | | | | |
| 4-Methyl-2-pentanone | | | U | ND | ug/L | | | | | |
| Acetone | | | U | ND | ug/L | | | | | |
| Acetonitrile | | | U | ND | ug/L | | | | | |
| Acrolein | | | U | ND | ug/L | | | | | |
| Acrylonitrile | | | U | ND | ug/L | | | | | |
| Allyl chloride | | | U | ND | ug/L | | | | | |
| Benzene | | | U | ND | ug/L | | | | | |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile-GC/MS** | | | | | | | | | | |
| Batch 2816289 | | | | | | | | | | |
| Bromochloromethane | | | U | ND | ug/L | | | | AXH5 | 06/19/25 11:06 |
| Bromodichloromethane | | | U | ND | ug/L | | | | | |
| Bromoform | | | U | ND | ug/L | | | | | |
| Bromomethane | | | U | ND | ug/L | | | | | |
| Carbon disulfide | | | U | ND | ug/L | | | | | |
| Carbon tetrachloride | | | U | ND | ug/L | | | | | |
| Chlorobenzene | | | U | ND | ug/L | | | | | |
| Chloroethane | | | U | ND | ug/L | | | | | |
| Chloroform | | | U | ND | ug/L | | | | | |
| Chloromethane | | | U | ND | ug/L | | | | | |
| Dibromochloromethane | | | U | ND | ug/L | | | | | |
| Dibromomethane | | | U | ND | ug/L | | | | | |
| Dichlorodifluoromethane | | | U | ND | ug/L | | | | | |
| Ethyl methacrylate | | | U | ND | ug/L | | | | | |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile-GC/MS** | | | | | | | | | | |
| Batch 2816289 | | | | | | | | | | |
| Ethylbenzene | | | U | ND | ug/L | | | | AXH5 | 06/19/25 11:06 |
| Iodomethane | | | U | ND | ug/L | | | | | |
| Isobutyl alcohol | | | U | ND | ug/L | | | | | |
| Methacrylonitrile | | | U | ND | ug/L | | | | | |
| Methyl methacrylate | | | U | ND | ug/L | | | | | |
| Methylene chloride | | | J | 0.960 | ug/L | | | | | |
| Propionitrile | | | U | ND | ug/L | | | | | |
| Styrene | | | U | ND | ug/L | | | | | |
| Tetrachloroethylene | | | U | ND | ug/L | | | | | |
| Toluene | | | U | ND | ug/L | | | | | |
| Trichloroethylene | | | U | ND | ug/L | | | | | |
| Trichlorofluoromethane | | | U | ND | ug/L | | | | | |
| Vinyl acetate | | | U | ND | ug/L | | | | | |
| Vinyl chloride | | | U | ND | ug/L | | | | | |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile-GC/MS** | | | | | | | | | | | |
| Batch 2816289 | | | | | | | | | | | |
| Xylenes (total) | | | | U | ND | ug/L | | | | AXH5 | 06/19/25 11:06 |
| cis-1,2-Dichloroethylene | | | | U | ND | ug/L | | | | | |
| cis-1,3-Dichloropropylene | | | | U | ND | ug/L | | | | | |
| m,p-Xylenes | | | | U | ND | ug/L | | | | | |
| o-Xylene | | | | U | ND | ug/L | | | | | |
| trans-1,2-Dichloroethylene | | | | U | ND | ug/L | | | | | |
| trans-1,3-Dichloropropylene | | | | U | ND | ug/L | | | | | |
| trans-1,4-Dichloro-2-butene | | | | U | ND | ug/L | | | | | |
| **1,2-Dichloroethane-d4 | 50.0 | | | | 50.6 | ug/L | | 101 | (76%-127%) | | |
| **Bromofluorobenzene | 50.0 | | | | 48.2 | ug/L | | 96 | (74%-123%) | | |
| **Toluene-d8 | 50.0 | | | | 50.9 | ug/L | | 102 | (77%-121%) | | |
| QC1206145967 728764001 MS | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 50.0 | U | ND | | 44.6 | ug/L | | 89 | (67%-130%) | | 06/19/25 16:05 |
| 1,1,1-Trichloroethane | 50.0 | U | ND | | 43.3 | ug/L | | 87 | (56%-133%) | | |
| 1,1,2,2-Tetrachloroethane | 50.0 | U | ND | | 44.3 | ug/L | | 89 | (59%-136%) | | |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile-GC/MS** | | | | | | | | | | | | |
| Batch 2816289 | | | | | | | | | | | | |
| 1,1,2-Trichloroethane | 50.0 | U | ND | | 46.3 | ug/L | | 93 | (68%-123%) | AXH5 | 06/19/25 | 16:05 |
| 1,1-Dichloroethane | 50.0 | J | 0.400 | | 48.9 | ug/L | | 97 | (67%-128%) | | | |
| 1,1-Dichloroethylene | 50.0 | U | ND | | 43.5 | ug/L | | 87 | (57%-137%) | | | |
| 1,1-Dichloropropene | 50.0 | U | ND | | 43.8 | ug/L | | 88 | (62%-128%) | | | |
| 1,2,3-Trichloropropane | 50.0 | U | ND | | 42.2 | ug/L | | 84 | (67%-126%) | | | |
| 1,2,4-Trichlorobenzene | 50.0 | U | ND | | 55.2 | ug/L | | 110 | (51%-129%) | | | |
| 1,2-Dibromo-3-chloropropane | 50.0 | U | ND | | 44.9 | ug/L | | 90 | (49%-137%) | | | |
| 1,2-Dibromoethane | 50.0 | U | ND | | 44.3 | ug/L | | 89 | (65%-124%) | | | |
| 1,2-Dichlorobenzene | 50.0 | U | ND | | 42.0 | ug/L | | 84 | (59%-125%) | | | |
| 1,2-Dichloroethane | 50.0 | U | ND | | 42.5 | ug/L | | 85 | (60%-134%) | | | |
| 1,2-Dichloropropane | 50.0 | U | ND | | 46.4 | ug/L | | 93 | (67%-125%) | | | |
| 1,3-Dichlorobenzene | 50.0 | U | ND | | 42.5 | ug/L | | 85 | (57%-124%) | | | |
| 1,3-Dichloropropane | 50.0 | U | ND | | 48.4 | ug/L | | 97 | (65%-125%) | | | |
| 1,4-Dichlorobenzene | 50.0 | U | ND | | 42.2 | ug/L | | 84 | (54%-123%) | | | |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile-GC/MS** | | | | | | | | | | | | |
| Batch 2816289 | | | | | | | | | | | | |
| 2,2-Dichloropropane | 50.0 | U | ND | | 44.3 | ug/L | | 89 | (53%-132%) | AXH5 | 06/19/25 | 16:05 |
| 2-Butanone | 250 | U | ND | | 272 | ug/L | | 109 | (47%-134%) | | | |
| 2-Hexanone | 250 | U | ND | | 289 | ug/L | | 116 | (55%-140%) | | | |
| 4-Methyl-2-pentanone | 250 | U | ND | | 260 | ug/L | | 104 | (60%-132%) | | | |
| Acetone | 250 | U | ND | | 278 | ug/L | | 111 | (50%-139%) | | | |
| Acetonitrile | 1250 | U | ND | | 1410 | ug/L | | 113 | (49%-140%) | | | |
| Benzene | 50.0 | U | ND | | 43.8 | ug/L | | 88 | (67%-128%) | | | |
| Bromochloromethane | 50.0 | U | ND | | 43.3 | ug/L | | 87 | (63%-128%) | | | |
| Bromodichloromethane | 50.0 | U | ND | | 43.5 | ug/L | | 87 | (64%-130%) | | | |
| Bromoform | 50.0 | U | ND | | 40.1 | ug/L | | 80 | (58%-134%) | | | |
| Bromomethane | 50.0 | U | ND | | 72.0 | ug/L | | 144 | (55%-149%) | | | |
| Carbon disulfide | 250 | U | ND | | 261 | ug/L | | 104 | (55%-131%) | | | |
| Carbon tetrachloride | 50.0 | U | ND | | 43.9 | ug/L | | 88 | (58%-141%) | | | |
| Chlorobenzene | 50.0 | U | ND | | 43.9 | ug/L | | 88 | (63%-121%) | | | |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile-GC/MS** | | | | | | | | | | | | |
| Batch 2816289 | | | | | | | | | | | | |
| Chloroethane | 50.0 | U | ND | | 65.3 | ug/L | | 131 | (56%-143%) | AXH5 | 06/19/25 | 16:05 |
| Chloroform | 50.0 | U | ND | | 45.0 | ug/L | | 90 | (65%-128%) | | | |
| Chloromethane | 50.0 | U | ND | | 63.1 | ug/L | | 126 | (42%-152%) | | | |
| Dibromochloromethane | 50.0 | U | ND | | 45.9 | ug/L | | 92 | (63%-137%) | | | |
| Dibromomethane | 50.0 | U | ND | | 44.7 | ug/L | | 89 | (67%-126%) | | | |
| Dichlorodifluoromethane | 50.0 | U | ND | | 43.3 | ug/L | | 87 | (37%-162%) | | | |
| Ethylbenzene | 50.0 | U | ND | | 47.5 | ug/L | | 95 | (58%-123%) | | | |
| Iodomethane | 250 | U | ND | | 221 | ug/L | | 88 | (61%-130%) | | | |
| Methylene chloride | 50.0 | U | ND | B | 49.6 | ug/L | | 99 | (58%-123%) | | | |
| Styrene | 50.0 | U | ND | | 47.3 | ug/L | | 95 | (58%-129%) | | | |
| Tetrachloroethylene | 50.0 | U | ND | | 45.3 | ug/L | | 91 | (56%-126%) | | | |
| Toluene | 50.0 | U | ND | | 46.7 | ug/L | | 93 | (63%-121%) | | | |
| Trichloroethylene | 50.0 | U | ND | | 44.6 | ug/L | | 89 | (61%-130%) | | | |
| Trichlorofluoromethane | 50.0 | U | ND | | 53.5 | ug/L | | 107 | (48%-137%) | | | |

# *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile-GC/MS** | | | | | | | | | | | | |
| Batch 2816289 | | | | | | | | | | | | |
| Vinyl acetate | 250 | U | ND | | 306 | ug/L | | 122 | (55%-137%) | AXH5 | 06/19/25 | 16:05 |
| Vinyl chloride | 50.0 | U | ND | | 61.7 | ug/L | | 123 | (49%-153%) | | | |
| Xylenes (total) | 150 | U | ND | | 142 | ug/L | | 95 | (55%-129%) | | | |
| cis-1,2-Dichloroethylene | 50.0 | | 2.37 | | 47.9 | ug/L | | 91 | (65%-128%) | | | |
| cis-1,3-Dichloropropylene | 50.0 | U | ND | | 42.9 | ug/L | | 86 | (63%-129%) | | | |
| m,p-Xylenes | 100 | U | ND | | 94.8 | ug/L | | 95 | (56%-125%) | | | |
| o-Xylene | 50.0 | U | ND | | 47.4 | ug/L | | 95 | (60%-125%) | | | |
| trans-1,2-Dichloroethylene | 50.0 | U | ND | | 44.7 | ug/L | | 89 | (63%-129%) | | | |
| trans-1,3-Dichloropropylene | 50.0 | U | ND | | 48.0 | ug/L | | 96 | (65%-130%) | | | |
| **1,2-Dichloroethane-d4 | 50.0 | | 50.6 | | 50.0 | ug/L | | 100 | (76%-127%) | | | |
| **Bromofluorobenzene | 50.0 | | 48.5 | | 46.2 | ug/L | | 92 | (74%-123%) | | | |
| **Toluene-d8 | 50.0 | | 52.0 | | 51.4 | ug/L | | 103 | (77%-121%) | | | |
| QC1206145969 728764001 MS | | | | | | | | | | | | |
| 2-Chloro-1,3-butadiene | 50.0 | U | ND | | 51.3 | ug/L | | 103 | (56%-137%) | | 06/19/25 | 16:56 |
| Acrolein | 250 | U | ND | | 304 | ug/L | | 122 | (37%-143%) | | | |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile-GC/MS** | | | | | | | | | | | |
| Batch 2816289 | | | | | | | | | | | |
| Acrylonitrile | 250 | U | ND | | 281 | ug/L | | 112 | (62%-133%) | AXH5 | 06/19/25 16:56 |
| Allyl chloride | 250 | U | ND | | 313 | ug/L | | 125 | (58%-136%) | | |
| Ethyl methacrylate | 250 | U | ND | | 299 | ug/L | | 119 | (56%-133%) | | |
| Isobutyl alcohol | 2500 | U | ND | | 3430 | ug/L | | 137 | (58%-144%) | | |
| Methacrylonitrile | 250 | U | ND | | 298 | ug/L | | 119 | (61%-135%) | | |
| Methyl methacrylate | 250 | U | ND | | 272 | ug/L | | 109 | (61%-136%) | | |
| Propionitrile | 250 | U | ND | | 291 | ug/L | | 117 | (61%-134%) | | |
| trans-1,4-Dichloro-2-butene | 250 | U | ND | | 296 | ug/L | | 119 | (59%-149%) | | |
| **1,2-Dichloroethane-d4 | 50.0 | | 50.6 | | 52.3 | ug/L | | 105 | (76%-127%) | | |
| **Bromofluorobenzene | 50.0 | | 48.5 | | 51.2 | ug/L | | 102 | (74%-123%) | | |
| **Toluene-d8 | 50.0 | | 52.0 | | 53.0 | ug/L | | 106 | (77%-121%) | | |
| QC1206145968 728764001 MSD | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 50.0 | U | ND | | 46.6 | ug/L | 4 | 93 | (0%-20%) | | 06/19/25 16:31 |
| 1,1,1-Trichloroethane | 50.0 | U | ND | | 46.1 | ug/L | 6 | 92 | (0%-20%) | | |
| 1,1,2,2-Tetrachloroethane | 50.0 | U | ND | | 47.4 | ug/L | 7 | 95 | (0%-20%) | | |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile-GC/MS** | | | | | | | | | | | | |
| Batch 2816289 | | | | | | | | | | | | |
| 1,1,2-Trichloroethane | 50.0 | U | ND | | 48.2 | ug/L | 4 | 96 | (0%-20%) | AXH5 | 06/19/25 | 16:31 |
| 1,1-Dichloroethane | 50.0 | J | 0.400 | | 52.0 | ug/L | 6 | 103 | (0%-20%) | | | |
| 1,1-Dichloroethylene | 50.0 | U | ND | | 45.3 | ug/L | 4 | 91 | (0%-20%) | | | |
| 1,1-Dichloropropene | 50.0 | U | ND | | 46.7 | ug/L | 6 | 93 | (0%-20%) | | | |
| 1,2,3-Trichloropropane | 50.0 | U | ND | | 45.8 | ug/L | 8 | 92 | (0%-20%) | | | |
| 1,2,4-Trichlorobenzene | 50.0 | U | ND | | 57.0 | ug/L | 3 | 114 | (0%-20%) | | | |
| 1,2-Dibromo-3-chloropropane | 50.0 | U | ND | | 47.5 | ug/L | 6 | 95 | (0%-20%) | | | |
| 1,2-Dibromoethane | 50.0 | U | ND | | 47.0 | ug/L | 6 | 94 | (0%-20%) | | | |
| 1,2-Dichlorobenzene | 50.0 | U | ND | | 44.8 | ug/L | 7 | 90 | (0%-20%) | | | |
| 1,2-Dichloroethane | 50.0 | U | ND | | 46.6 | ug/L | 9 | 93 | (0%-20%) | | | |
| 1,2-Dichloropropane | 50.0 | U | ND | | 48.9 | ug/L | 5 | 98 | (0%-20%) | | | |
| 1,3-Dichlorobenzene | 50.0 | U | ND | | 45.0 | ug/L | 6 | 90 | (0%-20%) | | | |
| 1,3-Dichloropropane | 50.0 | U | ND | | 51.2 | ug/L | 6 | 102 | (0%-20%) | | | |
| 1,4-Dichlorobenzene | 50.0 | U | ND | | 44.6 | ug/L | 6 | 89 | (0%-20%) | | | |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile-GC/MS** | | | | | | | | | | | |
| Batch 2816289 | | | | | | | | | | | |
| 2,2-Dichloropropane | 50.0 | U | ND | | 46.4 | ug/L | 5 | 93 | (0%-20%) | AXH5 | 06/19/25 16:31 |
| 2-Butanone | 250 | U | ND | | 276 | ug/L | 1 | 110 | (0%-20%) | | |
| 2-Hexanone | 250 | U | ND | | 301 | ug/L | 4 | 120 | (0%-20%) | | |
| 4-Methyl-2-pentanone | 250 | U | ND | | 274 | ug/L | 5 | 109 | (0%-20%) | | |
| Acetone | 250 | U | ND | | 277 | ug/L | 0 | 111 | (0%-20%) | | |
| Acetonitrile | 1250 | U | ND | | 1400 | ug/L | 1 | 112 | (0%-20%) | | |
| Benzene | 50.0 | U | ND | | 46.2 | ug/L | 5 | 92 | (0%-20%) | | |
| Bromochloromethane | 50.0 | U | ND | | 46.0 | ug/L | 6 | 92 | (0%-20%) | | |
| Bromodichloromethane | 50.0 | U | ND | | 46.7 | ug/L | 7 | 93 | (0%-20%) | | |
| Bromoform | 50.0 | U | ND | | 43.5 | ug/L | 8 | 87 | (0%-20%) | | |
| Bromomethane | 50.0 | U | ND | | 70.6 | ug/L | 2 | 141 | (0%-20%) | | |
| Carbon disulfide | 250 | U | ND | | 271 | ug/L | 4 | 108 | (0%-20%) | | |
| Carbon tetrachloride | 50.0 | U | ND | | 46.8 | ug/L | 6 | 94 | (0%-20%) | | |
| Chlorobenzene | 50.0 | U | ND | | 46.0 | ug/L | 5 | 92 | (0%-20%) | | |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile-GC/MS** | | | | | | | | | | | |
| Batch 2816289 | | | | | | | | | | | |
| Chloroethane | 50.0 | U | ND | | 63.5 | ug/L | 3 | 127 | (0%-20%) | AXH5 | 06/19/25 16:31 |
| Chloroform | 50.0 | U | ND | | 48.2 | ug/L | 7 | 96 | (0%-20%) | | |
| Chloromethane | 50.0 | U | ND | | 61.1 | ug/L | 3 | 122 | (0%-20%) | | |
| Dibromochloromethane | 50.0 | U | ND | | 48.4 | ug/L | 5 | 97 | (0%-20%) | | |
| Dibromomethane | 50.0 | U | ND | | 47.3 | ug/L | 5 | 95 | (0%-20%) | | |
| Dichlorodifluoromethane | 50.0 | U | ND | | 43.3 | ug/L | 0 | 87 | (0%-20%) | | |
| Ethylbenzene | 50.0 | U | ND | | 50.5 | ug/L | 6 | 101 | (0%-20%) | | |
| Iodomethane | 250 | U | ND | | 227 | ug/L | 3 | 91 | (0%-20%) | | |
| Methylene chloride | 50.0 | U | ND | B | 52.3 | ug/L | 5 | 105 | (0%-20%) | | |
| Styrene | 50.0 | U | ND | | 49.8 | ug/L | 5 | 100 | (0%-20%) | | |
| Tetrachloroethylene | 50.0 | U | ND | | 48.4 | ug/L | 7 | 97 | (0%-20%) | | |
| Toluene | 50.0 | U | ND | | 49.3 | ug/L | 5 | 99 | (0%-20%) | | |
| Trichloroethylene | 50.0 | U | ND | | 47.0 | ug/L | 5 | 94 | (0%-20%) | | |
| Trichlorofluoromethane | 50.0 | U | ND | | 52.0 | ug/L | 3 | 104 | (0%-20%) | | |

# *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile-GC/MS** | | | | | | | | | | | |
| Batch 2816289 | | | | | | | | | | | |
| Vinyl acetate | 250 | U | ND | | 309 | ug/L | 1 | 124 | (0%-20%) | AXH5 | 06/19/25 16:31 |
| Vinyl chloride | 50.0 | U | ND | | 59.8 | ug/L | 3 | 120 | (0%-20%) | | |
| Xylenes (total) | 150 | U | ND | | 149 | ug/L | 5 | 99 | (0%-20%) | | |
| cis-1,2-Dichloroethylene | 50.0 | | 2.37 | | 51.2 | ug/L | 7 | 98 | (0%-20%) | | |
| cis-1,3-Dichloropropylene | 50.0 | U | ND | | 45.6 | ug/L | 6 | 91 | (0%-20%) | | |
| m,p-Xylenes | 100 | U | ND | | 99.4 | ug/L | 5 | 99 | (0%-20%) | | |
| o-Xylene | 50.0 | U | ND | | 49.8 | ug/L | 5 | 100 | (0%-20%) | | |
| trans-1,2-Dichloroethylene | 50.0 | U | ND | | 48.6 | ug/L | 8 | 97 | (0%-20%) | | |
| trans-1,3-Dichloropropylene | 50.0 | U | ND | | 51.9 | ug/L | 8 | 104 | (0%-20%) | | |
| **1,2-Dichloroethane-d4 | 50.0 | | 50.6 | | 51.4 | ug/L | | 103 | (76%-127%) | | |
| **Bromofluorobenzene | 50.0 | | 48.5 | | 47.4 | ug/L | | 95 | (74%-123%) | | |
| **Toluene-d8 | 50.0 | | 52.0 | | 51.8 | ug/L | | 104 | (77%-121%) | | |
| QC1206145970 728764001 MSD | | | | | | | | | | | |
| 2-Chloro-1,3-butadiene | 50.0 | U | ND | | 48.9 | ug/L | 5 | 98 | (0%-20%) | | 06/19/25 17:21 |
| Acrolein | 250 | U | ND | | 302 | ug/L | 0 | 121 | (0%-20%) | | |

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Volatile-GC/MS** | | | | | | | | | | | |
| Batch 2816289 | | | | | | | | | | | |
| Acrylonitrile | 250 | U | ND | | 273 | ug/L | 3 | 109 | (0%-20%) | AXH5 | 06/19/25 17:21 |
| Allyl chloride | 250 | U | ND | | 300 | ug/L | 4 | 120 | (0%-20%) | | |
| Ethyl methacrylate | 250 | U | ND | | 285 | ug/L | 5 | 114 | (0%-20%) | | |
| Isobutyl alcohol | 2500 | U | ND | | 3370 | ug/L | 2 | 135 | (0%-20%) | | |
| Methacrylonitrile | 250 | U | ND | | 290 | ug/L | 3 | 116 | (0%-20%) | | |
| Methyl methacrylate | 250 | U | ND | | 264 | ug/L | 3 | 106 | (0%-20%) | | |
| Propionitrile | 250 | U | ND | | 281 | ug/L | 4 | 112 | (0%-20%) | | |
| trans-1,4-Dichloro-2-butene | 250 | U | ND | | 288 | ug/L | 3 | 115 | (0%-20%) | | |
| **1,2-Dichloroethane-d4 | 50.0 | | 50.6 | | 51.9 | ug/L | | 104 | (76%-127%) | | |
| **Bromofluorobenzene | 50.0 | | 48.5 | | 50.4 | ug/L | | 101 | (74%-123%) | | |
| **Toluene-d8 | 50.0 | | 52.0 | | 50.5 | ug/L | | 101 | (77%-121%) | | |

**Notes:**

The Qualifiers in this report are defined as follows:

- F Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, the difference is >70%.
- C Analyte has been confirmed by GC/MS analysis
- B The target analyte was detected in the associated blank.

## *QC Summary*

**Workorder:** **728764**



| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|

| | |
|---|---|
| E | Concentration of the target analyte exceeds the instrument calibration range |
| A | The TIC is a suspected aldol-condensation product |
| X | Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier |
| N | Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor |
| H | Analytical holding time was exceeded |
| ** | Analyte is a surrogate compound |
| < | Result is less than value reported |
| > | Result is greater than value reported |
| h | Preparation or preservation holding time was exceeded |
| R | Sample results are rejected |
| ^ | RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry. |
| D | Results are reported from a diluted aliquot of the sample |
| N/A | RPD or %Recovery limits do not apply. |
| ND | Analyte concentration is not detected above the detection limit |
| NJ | Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier |
| JNX | Non Calibrated Compound |
| UJ | Compound cannot be extracted |
| Q | One or more quality control criteria have not been met. Refer to the applicable narrative or DER. |
| N1 | See case narrative |
| Y | QC Samples were not spiked with this compound |
| N | Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor |
| J | See case narrative for an explanation |
| G | Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier. |
| FG | Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier. |
| XG | Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier. |

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**Technical Case Narrative**
**NC Dept Environmental Quality**
**SDG #: 728764**

# GC/MS Volatile

**Product:** **Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer**
**Analytical Method:** SW846 8260D
**Analytical Procedure:** GL-OA-E-038 REV# 31
**Analytical Batch:** 2816289

The following samples were analyzed using the above methods and analytical procedure(s).

| GEL Sample ID# | Client Sample Identification |
|---|---|
| 728764001 | 6002-Devon-20250612 |
| 728764003 | 6007-Devon-Pre-20250612 |
| 728764004 | 6007-Devon-Post-20250612 |
| 728764005 | Trip Blank |
| 1206145964 | Laboratory Control Sample (LCS) |
| 1206145965 | Laboratory Control Sample (LCS) |
| 1206145966 | Method Blank (MB) |
| 1206145967 | 728764001(6002-Devon-20250612) Matrix Spike (MS) |
| 1206145968 | 728764001(6002-Devon-20250612) Matrix Spike Duplicate (MSD) |
| 1206145969 | 728764001(6002-Devon-20250612) Matrix Spike (MS) |
| 1206145970 | 728764001(6002-Devon-20250612) Matrix Spike Duplicate (MSD) |

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Calibration Information**

**Continuing Calibration Verification Requirements**
All Calibration Verification Standards (CCV) did not meet the acceptance criteria as outlined in Method 8260D for samples 728764001 (6002-Devon-20250612), 728764003 (6007-Devon-Pre-20250612), 728764004 (6007-Devon-Post-20250612) and 728764005 (Trip Blank) and the associated QC. However, the method allows for a designated number of outliers dependent on the requested analyte list. This SDG satisfied the 8260D outlier acceptance criteria. The results are reported.

**Quality Control (QC) Information**

**Blank (MB) Statement**
Target analytes were detected in the blank (See Below) below the reporting limit. The associated data are qualified accordingly and reported.

| Sample | Analyte | Value |
|---|---|---|
| 1206145966 (MB) | Methylene chloride | 0.96 between (0.5 - 5) |

# LCMSMS-Misc

**Product:** **The Extraction and Analysis of Per- and Polyfluoroalkyl Substances Using LCMSMS**
**Analytical Method:** EPA 537.1 Modified
**Analytical Procedure:** GL-OA-E-076 REV# 17
**Analytical Batches:** 2814155 and 2814154

The following samples were analyzed using the above methods and analytical procedure(s).

| GEL Sample ID# | Client Sample Identification |
|---|---|
| 728764001 | 6002-Devon-20250612 |
| 728764002 | 6002-Devon-20250612-FB |
| 728764003 | 6007-Devon-Pre-20250612 |
| 728764004 | 6007-Devon-Post-20250612 |
| 1206141836 | Method Blank (MB) |
| 1206141837 | Laboratory Control Sample (LCS) |
| 1206141838 | 728764001(6002-Devon-20250612) Matrix Spike (MS) |
| 1206141839 | 728764001(6002-Devon-20250612) Matrix Spike Duplicate (MSD) |

The samples in this SDG were analyzed on an "as received" basis.

**Data Summary:**

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

**Calibration Information**

**CCV Requirements**
Calibration verification standards (ICV or CCV) requirements have not been met for samples in this batch in this SDG. One or more target analytes failed acceptance criteria with a positive bias in the standards bracketing the samples in this SDG. These target analytes were not detected in the associated environmental samples; therefore, the non-compliance had no adverse effect on the data.

**Quality Control (QC) Information**

**Laboratory Control Sample (LCS) Recovery**
The LCS and/or LCSD (See Below) did not meet the spike recovery acceptance limits with a positive bias. As target analytes were not detected in the associated samples, the data were not adversely impacted.

| Sample | Analyte | Value |
|---|---|---|
| 1206141837 (LCS) | Nafion Byproduct 4 (PFESA BP4) | 119* (12%-114%) |
| | Nafion Byproduct 5 (PFESA BP5) | 172* (18%-146%) |

**Matrix Spike (MS) Recovery Statement**
The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable compounds. The failure may be attributed to possible sample matrix interference and/or non-homogeneity.

| Sample | Analyte | Value |
|---|---|---|
| 1206141838 (6002-Devon-20250612MS) | Nafion Byproduct 4 (PFESA BP4) | 536* (36%-175%) |

| | | |
|---|---|---|
| | Nafion Byproduct 5 (PFESA BP5) | 325* (35%-171%) |
| | R-EVE | 427* (29%-172%) |
| 1206141839 (6002-Devon-20250612MSD) | Nafion Byproduct 4 (PFESA BP4) | 528* (36%-175%) |
| | Nafion Byproduct 5 (PFESA BP5) | 317* (35%-171%) |
| | R-EVE | 349* (29%-172%) |

**Miscellaneous Information**

**Additional Comments**
Some analytes are X qualified because the standards used to make the initial calibration curve did not meet the ISO 17025 criterion. These are the only standards available for these analytes.
Some analytes are F qualified because the standards used to make the initial calibration curve did not meet the ISO 17025 criterion. These are the only standards commercially available for these analytes.
Some analytes are G qualified because the ISO 17025 criterion cannot be met due to no commercially available proficiency testing material.

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

PO Number: _____
Project #: _NCDQ00117_____
GEL Quote #: _GELP19-1353_____
GEL Project Manager: Delaney

**GEL Laboratories LLC** 728764
CHEMISTRY RADIOCHEMISTRY RADIOBIOASSAY SPECIALTY ANALYTICS
843.556.8171 | 2040 Savage Road | Charleston, SC 29407 | gel.com

**Chain of Custody and Analytical Record**
(1) COC Number: 1
Page: 1 of 1
GEL Work Order Number: _____

GEL Client Name: Mark Webb, Kevin Arnold
Phone Number: Mark - 919 707 8231, Kevin - 919 218 1258
Project/Site Name: Gaither Transou Property; Site ID NONCD0000024
Address: multiple
Collected By: Kevin A., Randy M.
Send Results To: mark.webb@deq.nc.gov, kevin.arnold@deq.nc.gov

**Turn Around Time Requested.** *Rush subject to surcharge.*
Standard: X
Rush (Specify): _____

**(5) Sample Analysis Requested** *Enter Analysis Requested like 8270 PAH or 6010 Metals*

| Sample ID (Each ID listed will be reported as a unique sample unless otherwise instructed. * For composites - indicate start and stop date/time) | *Date Collected (mm-dd-yy) | *Time Collected (Military) (hhmm) | (2) Field Filtered | (3) QC Code | (4) Sample Matrix | Should this sample be considered: (7) Radioactive (Y or N) | (8) Known or possible Hazards | Total number of containers | TZ | 537.1 Mod plus chemours list | VOCs 8260 | (6) Preservative Type | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6002-Devon-20250612 | 06-12-25 | 1049 | N | G | GW | N | OT | 5 | x | | X | | Note: extra sample is required for sample specific QC |
| 6002-Devon-20250612-MS | | | | MS | | | | | | | | | |
| 6002-Devon-20250612-MSD | | | | MSD | | | | | | | | | No SPACES |
| 6002-Devon-20250612-FB | | | | FB | W | | | | | | | | BETWEEN |
| 6007-Devon-Pre-20250612 | | 1158 | | G | GW | | | | | | | | SAMPLE ID's |
| 6007-Devon-Post-20250612 | | 1203 | | G | | | | | | | | | |
| Trip blank | | | | | | | | 3 | | | X | | |

**Chain of Custody Signatures**

| | Relinquished By (Signed) | Date | Time | Received by (signed) | Date | Time |
|---|---|---|---|---|---|---|
| 1 | | 6/12/25 | 1430 | | 06/13/25 | 1015 |
| 2 | | | | 2 | | |
| 3 | | | | 3 | | |

Select Deliverable: [x] Results and QC Summary [ ] Calibration Summary [ ] Raw Data [ ] Standards Traceability
EDD Required? [ ] If yes, specify type.
Required Certification:
Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:
*Additional Comments:*
*For sample shipping and delivery details, see Sample Receipt & Review form (SRR).*

*For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: _____ °C*

**(1) Chain of Custody Number**
Client Determined

**(2) Field Filtered**
For liquid matrices, indicate with a Y for yes the sample was field filtered.

**(3) QC Codes**
Equipment Blank (EB), Field Reagent Blank, Field Duplicate (DUP), Trip Blank (TB), Matrix Spike (MS), Matrix Spike Duplicate (MSD), Composite (C), Grab (G)

**(4) Matrix Co**
Biosolid (SB), Concrete (C), Drinking Water (DW), Fecal (FC), Filter (F), Groundwater (GW), Leachate (L), Misc Liquid (ML), Oil (O), Sediment (SD), Sludge (SL), Soil (SO), Solid Waste (SS), Storm Water (WS), Surface Water (SW), Tissue (T), Urine (U), Vegetation (V), Waste Water (WW), Water (W), Wipe (P)

**(6) Preservative Type**
Ammonium Acetate (AM), Ascorbic Acid (AA), Hexane (HX), Hydrochloric Acid (HA), Methanol (ME), Nitric Acid (NI), Sodium Hydroxide (SH), Sodium Bisulfate (SBA), Sodium BisulfiteSBI), Sodium Thiosulfate (ST), Sulfuric Acid (SA), Trizma (TZ), Zinc Acetate (ZA)
*Leave blank if no preservative is added.*

**(7) Radioactive** *** *If yes, email rso@gel.com prior to shipment for approval. Isotopic data should be included in the email and with the sample shipment.** **

**(8) Known or Possible Hazards**
**Identify the "Source of the Sample" material**
*(e.g., NPDES discharge, waste material, stormwater, groundwater, Superfund Site etc.)*

RCRA Metals: Arsenic (As), Barium (Ba), Cadmium (Cd), Chromium (Cr), Lead (Pb), Mercury (Hg), Selenium (Se), Silver (Ag), Misc. RCRA (MR)
**Is this sample known or suspected to be RCRA Hazardous?** *Yes [ ] No [ ]*

Characteristic: Flammable/Ignitable (FL), Corrosive (CO), Reactive (RE)
TSCA Regulated: Polychlorinated biphenyls (PCB)

Listed Waste: Listed Waste (LW) *(F,K,P and U-listed wastes.)* *Waste code(s):*

Other: Other / Unknown (OT) *(i.e.: asbestos, beryllium, High/low pH, irritants, other misc. health hazards, etc.)* *Description:*

Please provide any additional details below regarding handling and/or disposal concerns.

GEL Laboratories LLC

# SAMPLE RECEIPT & REVIEW FORM

Client: NCDA | SDG/AR/COC/Work Order: 728764 | GEL PM: DS

Received By: Thyasia Tatum | Date Received at GEL: 6/13/25

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR2-23 Daily Calibration Performed? (Y)N

| Tracking Number | Temp (C) | If over 6 °C, check if samples do not require cold preservation (ie radiochem only). | Tracking Number | Temp (C) | If over 6 °C, check if samples do not require cold preservation (ie radiochem only). |
|---|---|---|---|---|---|
| 4480 4450 9440 | 2C | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Suspected Hazard Information | Yes | No | *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation. |
|---|---|---|---|
| A)Shipped as a DOT Hazardous? | | ✓ | Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___ |
| B) Did the client designate the samples are to be received as radioactive? | | ✓ | COC notation or radioactive stickers on containers equal client designation. |
| C) Did the RSO classify the samples as radioactive? | | ✓ | Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM mR/Hr Classified as: Rad 1 Rad 2 Rad 3 |
| D) Are there any sample hazards to document? | | ✓ | If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other: |
| E) Was a SDS received and reviewed by Lab Safety? | | ✓ | Circle Applicable: See additional Comments below. No additional comments needed after review. |

| | Sample Receipt Criteria | Yes | NA | No | Comments/Qualifiers (Required for Non-Conforming Items) |
|---|---|---|---|---|---|
| 1 | Shipping containers received intact and sealed? | ✓ | | | Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe) |
| 2 | Chain of custody documents included with shipment? | ✓ | | | Circle Applicable: Client contacted and provided COC COC created upon receipt |
| 3 | If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)? | ✓ | | | Preservation Method: (Wet Ice) Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius |
| 4 | Sample containers intact and sealed? | ✓ | | | Circle Applicable: Seals broken Damaged container Leaking container Other (describe) |
| 5 | Samples requiring chemical preservation at proper pH? | | | ✓ | Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#: |
| 6 | Do any samples require Volatile Analysis? (If yes, answer all three additional questions.) | | | ✓ | If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected: |
| 7 | Samples received within holding time? | ✓ | | | IDs and tests affected: |
| 8 | Sample IDs on COC match IDs on bottles? | ✓ | | | IDs and containers affected: |
| 9 | Date & time on COC match date & time on bottles? | ✓ | | | Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) |
| 10 | Number of containers received match number indicated on COC? | | | | Circle Applicable: No container count on COC Missing Container (provide details) Other (describe) |
| 11 | Are sample containers identifiable as GEL provided by use of GEL labels? | ✓ | | | |
| 12 | COC form is properly signed in relinquished/received sections? | ✓ | | | Circle Applicable: Not relinquished Other (describe) |

Comments:

PM (or PMA) review: Initials AM Date 6/18/25

☐ Continuation Form Required when selected

GL-CHL-SR-001 Rev 8

**List of current GEL Certifications as of 23 June 2025**

| State | Certification |
|---|---|
| Alabama | 42200 |
| Alaska | 17-018 |
| Alaska Drinking Water | SC00012 |
| Arkansas | 88-00651 |
| CLIA | 42D0904046 |
| California | 2940 |
| Colorado | SC00012 |
| Connecticut | PH-0169 |
| DoD ELAP/ ISO17025 A2LA | 2567.01 |
| Florida NELAP | E87156 |
| Foreign Soils Permit | 525-24-281-19660 |
| Georgia | SC00012 |
| Georgia SDWA | 967 |
| Hawaii | SC00012 |
| Idaho | SC00012 |
| Illinois NELAP | 200029 |
| Indiana | C-SC-01 |
| Kansas NELAP | E-10332 |
| Kentucky SDWA | KY90129 |
| Kentucky Wastewater | KY90129 |
| Louisiana Drinking Water | LA024 |
| Louisiana NELAP | 03046 (AI33904) |
| Maine | 2023019 |
| Maryland | 270 |
| Massachusetts | M-SC012 |
| Massachusetts PFAS Approv | Letter |
| Michigan | 9976 |
| Mississippi | SC00012 |
| Nebraska | NE-OS-26-13 |
| Nevada | NV-C24-00175 |
| New Hampshire NELAP | 205424 |
| New Jersey NELAP | SC002 |
| New Mexico | SC00012 |
| New York NELAP | 11501 |
| North Carolina | 233 |
| North Carolina SDWA | 45709 |
| North Dakota | R-158 |
| Oklahoma | 2023-152 |
| Pennsylvania NELAP | 68-00485 |
| Puerto Rico | SC00012 |
| S. Carolina Radiochem | 10120002 |
| Sanitation Districts of L | 9255651 |
| South Carolina Chemistry | 10120001 |
| Tennessee | TN 02934 |
| Texas NELAP | T104704235 |
| Utah NELAP | SC000122024-45 |
| Vermont | VT87156 |
| Virginia NELAP | 460202 |
| Washington | C780 |

# Well Log Sheet

Site Name: Gaither Transou Property
Site Id #: NONCD0000024
Owner Name: Pablo; Sandra Roberson
Well Address: 6002 Devoncourt Place
Well 1 ID#: 6002-Devon - 20250612
Coordinates: 36.043420 Lat
-79.919923 Long
Const. Date 10/23/1986
Depth: 106 ft Size: 6 in

KA
Date: 6/12/25 Temp: 80°F
Precip: NO Wind: NO
Sampling Team: KA and RM
Phone Sandra - 336 268 0069
Well 2 ID#: Pablo - 336 294 - 1292
Coordinates: _____ Lat
_____ Long
Const. Date _____
Depth: _____ ft Size: _____ in

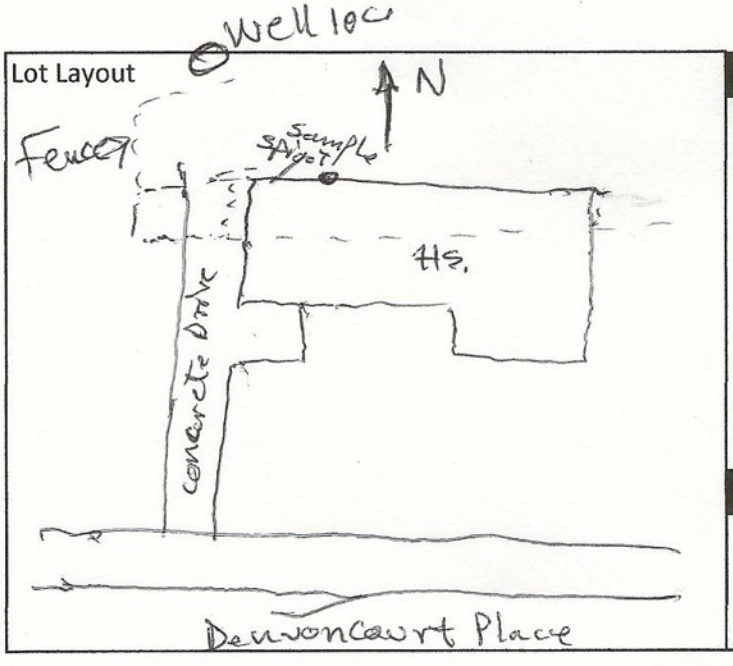
Comments: Well Data From well tag.

| Time Interval (min) | 5 | 10 | 15 | 20 |
|---|---|---|---|---|
| Temp (°C) | 19.7 | 18.8 | 19.0 | |
| pH | 7.25 | 6.2 | 6.21 | |
| S.C. | 275.8 | 274.1 | 268.8 | |
| Turbidity | 0.00 | | | |

Treatment System Installed: ☐
Type: ☐ Softener ☐ GAC ☐ RO ☐ Sediment

Time Sample Collected: 10:44
Water Condition (turbidity, color, odor): clear / No odor

Lot Layout




Samples Collected:
- ■ VOCs 8260 (3 - 40ml VOAw/ HCL)
- ☐ 1,4 Dioxane w/J Values (3 - 40 ml VOA w/ HCL)
- ☐ 1,4 Dioxane 8270SIM d8 (2 - 250ml Amber; Unpreserved)
- SVOCs/PCBs (2 - 250 ml Amber Bottle; Unpreserved)
- Metals (1 - 250ml HDPE Bottle w/HNO3)
- ☐ Dioxin (1 - 1L Bottle)
- ☐ Pesticides (2 - 250ml Amber Bottle; Unreserved)
- ☐ Herbicides (2 - 1L Amber Bottle; Unpreserved)
- ☐ Nitrates (1-250ml HDPE; Unpreserved)
- ■ PFAS

Comments: Sample at Hs. spigot

Notes: Collected MS/MSD/FB

# Well Log Sheet

Chapel Hill to here 52 mins

Site Name: Gaither Transou Property
Site Id #: NONCD0000024
Owner Name: Kermit Coble
Well Address: 6007 Devoncourt Place #20250612
Well 1 ID#: 6007 - Devon -
Coordinates: 36.042861 Lat
-79.921199 Long
Const. Date _____
Depth: _____ ft Size: _____ in

Date: 6/12/25 Temp: 85°F
Precip: NO Wind: NO
Sampling Team: KA and RM
Phone Kermit (336) 686 9350
Well 2 ID#: _____
Coordinates: _____ Lat
_____ Long
Const. Date _____
Depth: _____ ft Size: _____ in

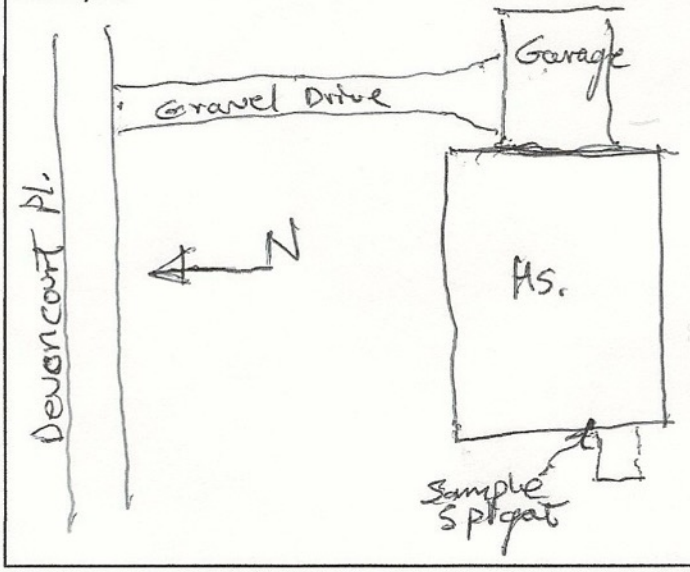
Comments: See previous well Log for well Data

| Time Interval (min) | 5 | 10 | 15 | 20 |
|---|---|---|---|---|
| Temp (°C) | 20.3 | 19.6 | 19.3 | |
| pH | 6.76 | 6.75 | 6.74 | |
| S.C. | 284.5 | 270.2 | 270.2 | |
| Turbidity | 0.00 | | | |

Treatment System Installed: ☐
Type: ☐ Softener ☐ GAC ☐ RO ☐ Sediment

Time Sample Collected: Pre: 11:58 Post: 1203
Water Condition (turbidity, color, odor): clear / slight odor

Lot Layout




Samples Collected:
- ■ VOCs 8260 (3 - 40ml VOAw/ HCL)
- ☐ 1,4 Dioxane w/J Values (3 - 40 ml VOA w/ HCL)
- ☐ 1,4 Dioxane 8270SIM d8 (2 - 250ml Amber; Unpreserved)
- ☐ SVOCs/PCBs (2 - 250 ml Amber Bottle; Unpreserved)
- ☐ Metals (1 - 250ml HDPE Bottle w/HNO3)
- ☐ Dioxin (1 - 1L Bottle)
- ☐ Pesticides (2 - 250ml Amber Bottle; Unreserved)
- ☐ Herbicides (2 - 1L Amber Bottle; Unpreserved)
- ☐ Nitrates (1-250ml HDPE; Unpreserved)
- ■ PFAS

Comments: Sample at House Spigot Pre. & Kitchen sink

Notes:

# Field Parameters

Name: Kevin and Randy  Turbidity Model: TB400  Multi-meter model: _____

Date: 6/12/2025  S/N: _____  S/N: _____

## Parameter Equipment Calibration

| | | | Measurement |
|---|---|---|---|
| pH Buffers (S.U.) | **4.01** | → | 4.17 |
| | **7.00** | → | 7.16 |
| | **10.01** | → | 10.15 |
| Conductivity (µS) | **1413** | → | 1383 |
| Turbidity (NTU) | **<0.1** | → | 0 ✓ |
| | **100** | → | Error 0 |

Units

**(S.U.)** → Standard Units

**(°C)** → Degrees Celsius

**(mS)** → Milli-siemens

**(µS)** → Micro-siemens

**(NTU)** → Nephelometric Turbidity Units