



## Per- and Polyfluoroalkyl Substances (PFAS) Report

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## I. PWS INFORMATION: Please refer to your MassDEP Water Quality Sampling Schedule (WQSS) to help complete this form

PWS ID #: 4122000 City / Town: HANOVER  
PWS Name: HANOVER WATER DEPT PWS Class: COM ☒ NTNC ☐ TNC ☐

| MassDEP Location (LOC) ID#                                                                                                                                  | MassDEP Location Name                                                                                                   | Sample Information                                                                                               | Date Collected                                                                   | Collected By |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------|----|
| 10386                                                                                                                                                       | BROADWAY WTP                                                                                                            | <input type="checkbox"/> (M)ultiple<br><input checked="" type="checkbox"/> (S)ingle                              | <input type="checkbox"/> (R)aw<br><input checked="" type="checkbox"/> (F)inished | 07/20/21     | AP |
| Routine or Special Sample                                                                                                                                   | Original, Resubmitted or Confirmation Report                                                                            | If Resubmitted Report, list below:                                                                               |                                                                                  |              |    |
|                                                                                                                                                             |                                                                                                                         | (1) Reason for Resubmission                                                                                      | (2) Collection Date of Original Sample                                           |              |    |
| <input checked="" type="checkbox"/> RS <input type="checkbox"/> SS                                                                                          | <input checked="" type="checkbox"/> Original <input type="checkbox"/> Resubmitted <input type="checkbox"/> Confirmation | <input type="checkbox"/> Resample <input type="checkbox"/> Reanalysis <input type="checkbox"/> Report Correction |                                                                                  |              |    |
| SAMPLE COMMENTS - Such as, if a Manifold/Multiple sample, list the source(s) that were on-line during sample collection or if this is a field reagent blank |                                                                                                                         |                                                                                                                  |                                                                                  |              |    |

## II. ANALYTICAL LABORATORY INFORMATION:

Primary Lab Cert. #: M-MA086 Primary Lab Name: Alpha Analytical Labs Subcontracted? (Y/N) Y

Analysis Lab Cert. #: M-MA030 Analysis Lab Name: Alpha Analytical Labs

If Analysis Lab is not certified by MassDEP or U.S. EPA, list certification authority:

| Lab Method | Date Extracted | Date Analyzed | Dilution Factor | Lab Sample IDs#    |             |
|------------|----------------|---------------|-----------------|--------------------|-------------|
| 537.1      | 07/22/21       | 07/22/21      | 1               | Primary Lab:       | L2138713-03 |
|            |                |               |                 | Subcontracted Lab: | L2138713-03 |

| CAS#                                                                                                                                                                                     | REGULATED PFAS CONTAMINANTS                                        | Result <sup>1</sup><br>ng/L | Result <sup>2</sup><br>Qualifier | MCL*<br>ng/L | MDL<br>ng/L | MRL<br>ng/L |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------|----------------------------------|--------------|-------------|-------------|
| 1763-23-1                                                                                                                                                                                | Perfluorooctane Sulfonic Acid (PFOS)                               | 2.98                        |                                  |              | 0.623       | 1.86        |
| 335-67-1                                                                                                                                                                                 | Perfluorooctanoic Acid (PFOA)                                      | 5.22                        |                                  |              | 0.623       | 1.86        |
| 355-46-4                                                                                                                                                                                 | Perfluorohexane Sulfonic Acid (PFHxS)                              | 1.08                        | J                                |              | 0.623       | 1.86        |
| 375-95-1                                                                                                                                                                                 | Perfluorononanoic Acid (PFNA)                                      | ND                          |                                  |              | 0.623       | 1.86        |
| 375-85-9                                                                                                                                                                                 | Perfluorohexanoic Acid (PFHpA)                                     | 1.75                        | J                                |              | 0.623       | 1.86        |
| 335-76-2                                                                                                                                                                                 | Perfluorodecanoic acid (PFDA)                                      | ND                          |                                  |              | 0.623       | 1.86        |
| PFAS6 (sum of PFOS, PFOA, PFHxS, PFNA, PFHpA and PFDA; only include Results at or above the MRL; do not include estimated Results as described by a Result Qualifier in the next column) |                                                                    | 8.20                        | --                               | 20           |             |             |
| UNREGULATED PFAS CONTAMINANTS                                                                                                                                                            |                                                                    |                             |                                  |              |             |             |
| 375-73-5                                                                                                                                                                                 | Perfluorobutane sulfonic acid (PFBS)                               | 1.94                        |                                  |              | 0.623       | 1.86        |
| 307-55-1                                                                                                                                                                                 | Perfluorododecanoic acid (PFDoA)                                   | ND                          |                                  |              | 0.623       | 1.86        |
| 307-24-4                                                                                                                                                                                 | Perfluorohexanoic acid (PFHxA)                                     | 3.73                        |                                  |              | 0.623       | 1.86        |
| 376-06-7                                                                                                                                                                                 | Perfluorotetradecanoic acid (PFTA)                                 | ND                          |                                  |              | 0.623       | 1.86        |
| 72629-94-8                                                                                                                                                                               | Perfluorotridecanoic acid (PFTTrDA)                                | ND                          |                                  |              | 0.623       | 1.86        |
| 2058-94-8                                                                                                                                                                                | Perfluoroundecanoic acid (PFUnA)                                   | ND                          |                                  |              | 0.623       | 1.86        |
| 2991-50-6                                                                                                                                                                                | N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)           | 0.97                        | J                                |              | 0.623       | 1.86        |
| 2355-31-9                                                                                                                                                                                | N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)          | 0.784                       | J                                |              | 0.623       | 1.86        |
| 763051-92-9                                                                                                                                                                              | 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) | ND                          |                                  |              | 0.623       | 1.86        |
| 756426-58-1                                                                                                                                                                              | 9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)      | ND                          |                                  |              | 0.623       | 1.86        |
| 919005-14-4                                                                                                                                                                              | 4,8-dioxa-3H-perfluorononanoic acid (ADONA)                        | ND                          |                                  |              | 0.623       | 1.86        |
| 13252-13-6                                                                                                                                                                               | Hexafluoropropylene oxide dimer acid (HFPO-DA)                     | ND                          |                                  |              | 0.623       | 1.86        |

<sup>1</sup> A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL.

<sup>2</sup> All qualifiers must be described under Lab Analysis Comments on page 2.