



**GROUNDWATER SCIENCES CORPORATION**

2550 Interstate Drive, Suite 303  
Harrisburg, PA 17110-9606  
Phone: (717) 901-8176  
Fax: (717) 657-1611

**Via Electronic Submission**

May 30, 2025

Mr. James Rea, P.G.  
Pennsylvania Department of Environmental Protection  
Southcentral Regional Office  
Environmental Cleanup and Brownfields Program  
909 Elmerton Avenue  
Harrisburg, PA 17110

Ms. Kristin Koroncai  
U.S. Environmental Protection Agency, Region 3  
RCRA Corrective Action Branch 2  
Mail Code: 3LD12  
1600 John F. Kennedy Boulevard  
Philadelphia, PA 19103-2852

*Re: Transmittal of Annual Post-Remediation Care Plan Report for 2024  
Former York Naval Ordnance Plant, York, Pennsylvania*

Dear Mr. Rea and Ms. Koroncai:

On behalf of the Former York Naval Ordnance Plant (fYNOP) Remediation Team (Harley-Davidson Motor Company, Inc., and the U.S. Army Corps of Engineers), Groundwater Sciences Corporation is transmitting the attached Annual Post-Remediation Care Plan Report for 2024.

If you have questions regarding this report, please contact Ralph Golia of AMO Environmental Decisions at 267-249-0417 or [rgolia@amoed.com](mailto:rgolia@amoed.com).

Respectfully submitted,  
GROUNDWATER SCIENCES CORPORATION

Christopher D. O'Neil, P.G.  
Senior Scientist III

CDO/dlp

cc: Tim Scripko (Harley-Davidson) – One paper copy and electronic copy  
Beth Mrozinsky (Harley-Davidson) – Electronic copy  
Jesse Scott (Harley-Davidson) – Electronic copy  
Ignazio Sabella (Harley-Davidson) – Electronic copy  
Ralph Golia (AMOED) – Electronic copy  
Hamid Rafiee (USACE) – Electronic copy  
Wanfang Zhou (Hana Engineers) – Electronic copy  
Rodney Myers (HTG) – Electronic copy  
Scott Gould (MWN) – Electronic copy  
Chantelle Jackson-Gaines (NorthPoint Development) – Electronic copy  
Greg Norris (NorthPoint Development) – Electronic copy  
Eric Ricci (NorthPoint Development) – Electronic copy

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**ANNUAL POST-REMEDIATION CARE PLAN REPORT FOR  
2024**

**Former York Naval Ordnance Plant  
1425 Eden Road, Springettsbury Township  
York, Pennsylvania**

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**Prepared for:**

**Former York Naval Ordnance Plant Remediation Team**

**May 30, 2025**

**Prepared by:**

**Groundwater Sciences Corporation  
2550 Interstate Drive, Suite 303  
Harrisburg, Pennsylvania 17110**



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# **ANNUAL POST-REMEDIATION CARE PLAN REPORT FOR 2024**

**Former York Naval Ordnance Plant  
1425 Eden Road, Springettsbury Township  
York, Pennsylvania**

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**Prepared for:**

**Former York Naval Ordnance Plant Remediation Team**

**May 30, 2025**

**Prepared by:**

**Groundwater Sciences Corporation**



Daniel A. Delp  
Senior Associate  
Groundwater Sciences Corporation  
May 30, 2025

Christopher D. O'Neil, P.G.  
Senior Scientist III  
Groundwater Sciences Corporation  
May 30, 2025

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\* - in portable document format (PDF) on the fYNOP public website at <https://yorksite remedy.com>

## LIST OF ACRONYMS AND ABBREVIATIONS

|                |                                                     |
|----------------|-----------------------------------------------------|
| 11DCA          | 1,1-dichloroethane                                  |
| 11DCE          | 1,1-dichloroethene                                  |
| 12DCA          | 1,2-dichloroethane                                  |
| µg/L           | micrograms per liter                                |
| amsl           | above mean sea level                                |
| AWQC           | applicable water quality criteria                   |
| CFS            | cubic feet per second                               |
| cis12DCE       | cis-1,2-dichloroethene                              |
| COC            | constituent of concern                              |
| CPA            | Central Plant Area                                  |
| DQA            | data quality assessment                             |
| EA             | EA Engineering, Sciences, and Technology, Inc., PBC |
| ERLC           | Eden Road Logistic Center                           |
| ESP            | Eastern Site Perimeter                              |
| FDRTC          | Final Decision and Response to Comments             |
| FSP            | Field Sampling Plan                                 |
| fYNOP          | former York Naval Ordnance Plant                    |
| gpm            | gallons per minute                                  |
| Groundwater RA | Groundwater Human Health Risk Assessment            |
| GSC            | Groundwater Sciences Corporation                    |
| GWETS          | groundwater extraction and treatment system         |
| HTG            | Hydro-Terra Group                                   |
| Levee Area     | Codorus Creek Levee Area                            |
| LUA            | land use area                                       |
| MCL            | maximum contaminant level                           |
| MG             | million gallons                                     |
| MMRP           | Military Munitions Response Program                 |
| MNA            | monitored natural attenuation                       |
| MSC            | medium-specific concentration                       |
| MTBE           | methyl tertiary-butyl ether                         |
| NETT           | North End of Test Track                             |
| NPA            | North Plant Area                                    |
| NPBA           | Northern Property Boundary Area                     |
| NPDES          | National Pollutant Discharge Elimination System     |
| NSP            | Northern Site Perimeter                             |
| O&M            | operation and maintenance                           |
| PADEP          | Pennsylvania Department of Environmental Protection |
| PCE            | tetrachloroethene                                   |
| PIIP           | Public Information and Involvement Plan             |
| PRCP           | Post-Remediation Care Plan                          |
| QAPP           | Quality Assurance Project Plan                      |
| RCRA           | Resource Conservation and Recovery Act              |
| RSL            | regional screening level                            |
| SCSA           | South-Central Site Area                             |

|       |                                               |
|-------|-----------------------------------------------|
| SHS   | Statewide health standard                     |
| SPA   | South Plume Area                              |
| SPBA  | Southern Property Boundary Area               |
| SRBC  | Susquehanna River Basin Commission            |
| SSS   | site-specific standard                        |
| TCA   | 1,1,1-trichloroethane                         |
| TCE   | trichloroethene                               |
| TI    | Technical Impracticability                    |
| UCL95 | 95 percent upper confidence limit             |
| USEPA | United States Environmental Protection Agency |
| USGS  | United States Geological Survey               |
| VC    | vinyl chloride                                |
| VOC   | volatile organic compound                     |
| WPL   | West Parking Lot                              |

# 1 INTRODUCTION

This annual Post-Remediation Care Plan (PCRP) Report documents activities performed in January through December 2024 for the former York Naval Ordnance Plant (fYNOP or Site) (**Figure 1.0-1**). These activities fulfill requirements under the Pennsylvania Land Recycling and Environmental Remediation Standards Act (Act 2) and the United States Environmental Protection Agency (USEPA) Final Decision and Response to Comments (FDRTC) under the Resource Conservation and Recovery Act (RCRA) (USEPA, 2020).

## 1.1 Regulatory Framework

The scope and procedures used for sampling, analysis, data evaluation, and reporting in 2024 follow the PRCP in the Final Report (Groundwater Sciences Corporation [GSC], 2024) that was approved by the Pennsylvania Department of Environmental Protection (PADEP) and USEPA in January 2024. These activities are required to document the performance of engineering and institutional controls in environmental covenants. Draft environmental covenants were included in the Final Report for the East Campus property (proposed new) and West Campus property (amended). Revised draft environmental covenants for East and West Campuses were reissued in November 2024 based on discussions with PADEP and USEPA. A draft termination of the existing environmental covenant for the West Campus property was also issued. The environmental covenants will be recorded following PADEP and USEPA approval.

The PRCP does not address soil contamination, munitions, or explosives of concern in the East Campus Military Munitions Response Program (MMRP) Cleanup Area shown on **Figure 1.1-1**. The remedy for soil contamination, munitions, and explosives of concern in the East Campus MMRP Cleanup Area, as described in the MMRP Cleanup Plan (EA Engineering, Science, and Technology, Inc., PBC [EA], 2019) and the FDRTC, was approved by PADEP and USEPA in February 2020. Ongoing investigation and remedial activities in the East Campus MMRP Cleanup Area will be documented in separate reports.

## 1.2 Scope of Report

Reporting requirements for PRCP items contained in this annual assessment for 2024 include the following:

- Monitoring groundwater and surface water that includes groundwater elevations, groundwater quality, surface water quality and flows, and Northern Property Boundary Area (NPBA) constituent of concern (COC) migration assessment.
- Monitored natural attenuation (MNA) assessment of groundwater that includes chemical trends and progress, comparison with regulatory standards, and recommendations for future monitoring and evaluation.
- Monitoring and maintenance of engineering controls that include caps, West Campus vapor barrier, Southern Property Boundary Area (SPBA) groundwater extraction system, and groundwater treatment system.
- Assessment and verification of institutional controls that include non-residential land use, continued non-use of groundwater, future-potential vapor intrusion, intrusive activities and waste management, and evaluation of land-use changes.
- Documentation, notification, and communication activities required in institutional controls that include documentation of maintenance, inspection, and repair activities; notifications of potential exposure to utility workers; and notification and communication with the public and stakeholders.

Seven land use areas (LUAs) are referenced in this report that were established in the Groundwater Human Health Risk Assessment (Groundwater RA) (Newfields, 2018). The LUAs are illustrated on **Figure 1.2-1** and were organized based on current and anticipated future land use. These LUAs were also used to identify potential receptors and exposure pathways in the Groundwater RA and the Final Report as follows:

- LUA 1 consists of the developed portion of the East Campus (Harley-Davidson Property), that includes parking lots, production buildings, roads, lawn/landscaped areas, and stormwater facilities.
- LUA 2 includes the mostly undeveloped and wooded portion of the East Campus (Harley-Davidson Property) and is located adjacent to the east side of LUA 1.
- LUA 3 consists of the West Campus (NP York 58 property) that is developed and currently occupied by the Eden Road Logistics Center (ERLC) warehouse, the West Parking Lot (WPL), and a portion of Eden Road.



- LUA 4 includes residential areas that are located adjacent to the north side of LUA 1 and along the north, east, and south sides of LUA 2.
- LUA 5 consists predominately of developed industrial areas, U.S. Route 30, and a quarry. This broad area is located north of LUA 3, west of Codorus Creek (LUA 7), and south of LUA 1.
- LUA 6 includes mostly undeveloped areas located between the WPL (LUA 3) and Codorus Creek (LUA 7). Most of LUA 6 is zoned industrial and within a floodplain.
- LUA 7 consists of the segment of Codorus Creek southwest, west, and northwest of LUAs 5 and 6.

## 2 LONG-TERM GROUNDWATER AND SURFACE WATER MONITORING

This section provides data from groundwater and surface water monitoring conducted in 2024 following the procedures in the PRCP. The data includes groundwater elevations; information for collection, sampling, and analyses of groundwater and surface water; assessment of COC migration in the NPBA; and performance of the SPBA groundwater extraction and treatment system. COC concentration trends in groundwater are discussed in Section 3.

Groundwater and surface water samples were analyzed for the project analyte list of volatile organic compounds (VOCs) in the Quality Assurance Project Plan (QAPP) (GSC, 2020) using SW-846 Method 8260D. A sample from MW-2 in the Eastern Site Perimeter (ESP) was also analyzed for total and available cyanide using USEPA Method 9014 and OIA-1677, respectively, to monitor groundwater quality in the vicinity of the former cyanide spill. The laboratory data quality assessment (DQA) for the 2024 groundwater and surface water samples indicates the analytical results were acceptable for use in this report and qualified. Details of the DQA for the samples are in **Appendix A**. Documentation for groundwater and surface water sampling activities is in **Appendix B**. Laboratory analytical reports for 2024 samples are in **Appendix C**.

### 2.1 Groundwater Elevations

Water levels were measured on September 24, 2024, at 188 wells and three surface water locations as shown on **Plate 2.1-1**. Water level measurement locations, measurement points of reference, and calculated water level elevations for the most recent four years of monitoring (2021 through 2024) are provided on **Table 2.1-1**. Water level data were collected to provide information regarding groundwater flow gradients and performance of the groundwater extraction system. Vertical and lateral groundwater gradients and groundwater chemistry are used to evaluate COC migration and groundwater containment objectives.

As shown on **Plate 2.1-1**, the shallow groundwater gradient slopes westward toward Codorus Creek from a groundwater elevation “high” of approximately 530 feet above mean sea level (amsl) to a groundwater elevation “low” of approximately 340 feet amsl (approximating the surface water elevation in the creek). The groundwater gradient in the SPBA is southward and then southwest from the SPBA toward U.S. Route 30. Some local variations exist within this generalized description and

are discussed in Section 2.3 related to gradients developed by pumping in the SPBA and Section 2.4 related to COC migration assessment in the NPBA. The 2024 groundwater gradients are consistent with those detailed in the Part 2 Supplemental Remedial Investigation Groundwater Report (GSC, 2018) and the Final Report (GSC, 2024).

Consistent with previously recorded annual groundwater elevations, the groundwater gradient in the sandstone bedrock aquifer beneath the eastern portion of the Site is relatively steep and the groundwater gradient in the carbonate bedrock aquifer in the western portion of the Site is relatively flat. Water levels measured in most wells in 2024 were like those measured in 2023 (**Table 2.1-1**).

Based on the September 2024 potentiometric surface contours shown on **Plate 2.1-1**, pumping of SPBA wells CW-21, CW-22, and CW-23 continued to maintain a groundwater gradient in the SPBA that slopes from off-Site wells located along Canterbury Lane toward the Site. A detailed discussion of these results is in Section 2.3.1.

Vertical groundwater gradients like those observed in 2023 were measured in the same multi-level well pairs in 2024 (**Table 2.1-2**). Upward vertical gradients were calculated in 23 well pairs in the former Central Plant Area (CPA), Codorus Creek Levee Area (Levee Area), Eastern Landfill, former North End of Test Track (NETT), former North Plant Area (NPA), NPBA, South Plume Area (SPA), SPBA, and WPL shown on **Figure 2.1-1**. Potentiometric surface elevations in NPBA well MW-16D and well pair MW-18S and MW-18D are above the ground surface. Downward vertical gradients are evident from elevation data in 14 well pairs located in the Levee Area, Eastern Landfill, former NETT, NPBA, SPA, SPBA, and WPL.

## 2.2 Groundwater Sampling and Analytical Results

Based on the sampling scope and objectives described in the PRCP (GSC, 2024), the sampling level of effort in 2024 consisted of collecting groundwater samples from the following 50 wells:

- Forty-four MNA area wells,
- Three SPBA extraction wells, and
- Three NPBA COC migration assessment wells (MW-142S/D and RW-4 (Folk)).

The 44 MNA well total includes five monitoring wells that were immediately outside the boundary of Technical Impracticability (TI) Area 1, three wells on Canterbury Lane, MW-2 (only well also sampled for cyanide), and 35 other wells in the NPBA, ESP, South-Central Site Area (SCSA), SPBA, SPA, Levee Area, West Side of Codorus Creek, and Northern Site Perimeter (NSP). No monitoring or extraction wells were sampled within TI Area 1. Three extraction wells were sampled in TI Area 2 (CW-21, CW-22, and CW-23) to monitor performance of the SPBA groundwater extraction and treatment system. The five wells located immediately outside the boundary of TI Area 1 and six wells in the SPBA (three extraction wells and three wells on Canterbury Lane) were sampled quarterly, whereas the other wells were sampled annually.

The groundwater sampling and analytical procedures are described in the Field Sampling Plan (FSP) (GSC, 2012) and the QAPP (GSC, 2020). Copies of the FSP and the QAPP are available on the public website, <https://yorksiteremediation.com>.

**Table 2.2-1** shows the VOC results of chemical analysis of groundwater samples from wells located outside the TI Area boundaries from 2013 through 2024. **Table 2.2-2** includes VOC analytical data for wells located inside the TI Area 2 boundary in 2024. **Table 2.2-3** contains analytical results for total and available cyanide from a sample from MW-2 in 2024. The tables include USEPA Maximum Contaminant Levels (MCLs), USEPA Regional Screening Levels (RSLs), and PADEP residential and non-residential Statewide health standard (SHS) medium-specific concentrations (MSCs) for comparison.

The well locations sampled in 2024 are shown on **Figure 2.2-1** and **Plate 2.1-2**. **Table 2.2-4** provides physical information for these wells (type, depth, construction, geology, and location).

The following sections describe the groundwater sampling and analytical results for the SPBA, perimeter of TI Area 1, and MNA areas.

### 2.2.1 SPBA Extraction System Sampling

COC concentrations in SPBA groundwater were quantified quarterly during the 2024 extraction and treatment system operation in accordance with Section 4.3.3.1 of the PRCP (GSC, 2024). Samples were collected from three extraction wells (CW-21, CW-22, and CW-23) and from the combined extraction system inflow prior to treatment. These data were used to calculate VOC mass removed

from the aquifer by extraction and to assess aquifer quality affected by pumping. **Table 2.2-2** contains analytical results from the quarterly extraction-well samples.

Monitoring locations used to gauge SPBA pumping system performance are shown on **Figure 2.2-1**. Sample analytical data from these wells provide information for future optimization of pumping rates, potential reduction in the number of wells operating, and shutdown of the system.

As shown on **Table 2.2-5**, total VOC concentrations in quarterly 2024 samples collected from the combined extraction-well flow ranged from 84.27 micrograms per liter ( $\mu\text{g/L}$ ) to 95.76  $\mu\text{g/L}$ . The highest and lowest total VOC concentrations were measured in second- and fourth-quarter samples, respectively.

Consistent with historical analysis of groundwater from wells CW-21, CW-22, and CW-23, tetrachloroethene (PCE) was detected at concentrations approximately two orders of magnitude higher than trichloroethene (TCE) concentrations. PCE and TCE concentrations in 2024 SPBA samples from these extraction wells ranged from 30  $\mu\text{g/L}$  to 120  $\mu\text{g/L}$  and 0.42  $\mu\text{g/L}$  to 1  $\mu\text{g/L}$ , respectively (**Figure 2.2-2**).

PCE and TCE concentrations in 2024 samples from Canterbury Lane monitoring wells MW-166, MW-167, and MW-168 ranged from undetected (at 1  $\mu\text{g/L}$ ) to 1.9  $\mu\text{g/L}$  and undetected (at 1  $\mu\text{g/L}$ ) to 0.49  $\mu\text{g/L}$ , respectively (**Figure 2.2-2**).

## 2.2.2 TI Area 1 Perimeter Sampling

Quarterly groundwater monitoring was conducted in 2024 to assess groundwater chemistry around the boundary of TI Area 1 in accordance with Section 4.4.4 of the PRCP. Groundwater samples for VOC analysis were collected from monitoring wells MW-5, MW-6, MW-88, and well pair MW-101S/D (**Figure 2.2-1**). These data are also used for the annual MNA evaluation.

As shown on **Table 2.2-1**, the highest concentrations of TCE and cis-1,2-dichloroethene (cis12DCE) were detected in the MW-101D sample outside the southwest boundary of TI Area 1 and the highest PCE concentration was detected in groundwater from MW-88 outside the southern boundary. Analytical results for COCs in quarterly 2024 groundwater samples from the five wells are as follows:

- TCE concentrations range from undetected at 1.0 µg/L (several samples) to 4.2 µg/L (MW-101D);
- PCE concentrations range from undetected at 1.0 µg/L (several samples) to 10 µg/L (MW-88); and
- The cis12DCE concentrations range from undetected at 1.0 µg/L (several samples) to 8.1 µg/L (MW-101D).

### 2.2.3 MNA Area Sampling

Forty-four wells were sampled in September and October 2024 to assess the progress of COC degradation in groundwater from MNA in accordance with Section 4.4.2 of the PRCP. This assessment, presented in Section 3, uses analytical data from samples on **Table 2.2-1** to determine trends in COC concentrations at each well location. MNA status is evaluated using these trends from COC concentrations in groundwater samples from the NPBA, ESP, SCSA, SPBA, SPA, Levee Area, West Side of Codorus Creek, and NSP.

Wells sampled and analyzed for VOCs for the annual MNA evaluation in 2024 are listed on **Table 2.2-6** and shown on **Figure 2.2-3** as follows:

- NPBA – Twelve wells: MW-3, MW-9, MW-12, MW-16S, MW-18S/D, MW-20S/M, MW-143S/D, CW-1A, and CW-2;
- ESP – Three wells: MW-2, MW-14, and MW-65S;
- SCSA – Eight wells: MW-67S/D, MW-69, MW-79, MW-111, MW-112, MW-115, and MW-88;
- SPBA – Seven wells: MW-22, MW-165, MW-108S/D, MW-166, MW-167, and MW-168;
- SPA – Six wells: MW-43D, MW-12 (Cole Steel), MW-150, GM-1D, Cole D, and MW-110;
- Levee Area – Two wells: MW-101S and MW-101D;
- West Side of Codorus Creek – Two wells: Waterloo™ multilevel well MW-148A (two sample ports); and
- NSP – Four wells: MW-5, MW-6, MW-82, and MW-186.

Analytical results for detected COCs in the 2024 annual groundwater samples from 12 NPBA wells are as follows:

- TCE concentrations range from undetected at 1.0 µg/L (several samples) to 55 µg/L (MW-12);
- PCE concentrations range from undetected at 1.0 µg/L (several samples) to 3.2 µg/L (MW-12); and
- The cis12DCE concentrations range from undetected at 1.0 µg/L (several samples) to 75 µg/L (MW-12).

Analytical results for detected COCs in the 2024 annual groundwater samples from ESP wells are as follows:

- TCE concentrations range from undetected at 1.0 µg/L (two samples) to 0.6 J µg/L (MW-2);
- PCE concentrations range from 2.0 µg/L (MW-65S) to 69 µg/L (MW-2); and
- Both total cyanide and available cyanide (i.e., free cyanide and complexes that easily dissociate) were detected in the sample from MW-2 located in the southcentral portion of the ESP (**Table 2.2-3**).

Analytical results for detected COCs in the 2024 annual groundwater samples from eight SCSA wells are as follows:

- TCE concentrations range from undetected at 1.0 µg/L (several samples) to 4.3 µg/L (MW-69);
- PCE concentrations range from undetected at 1.0 µg/L (several samples) to 1.6 µg/L (MW-88);
- The cis12DCE concentrations range from undetected at 1.0 µg/L (several samples) to 84 µg/L (MW-115);
- Vinyl chloride (VC) concentrations range from undetected at 1.0 µg/L (several samples) to 89 µg/L (MW-115);
- 1,1-Dichloroethane (11DCA) concentrations range from undetected at 1.0 µg/L (several samples) to 11 µg/L (MW-115);
- 1,1-Dichloroethene (11DCE) concentrations range from undetected at 1.0 µg/L (several samples) to 2.0 µg/L (MW-115);
- 1,1,1-Trichloroethane (TCA) concentrations range from undetected at 1.0 µg/L (several samples) to 5.7 µg/L (MW-67S);

- Benzene concentrations range from undetected at 1.0 µg/L (several samples) to 6.1 µg/L (MW-115); and
- Methyl tertiary-butyl ether (MTBE) concentrations range from undetected at 1.0 µg/L (several samples) to 19 µg/L (MW-115).

Analytical results for detected COCs in the 2024 annual groundwater samples from seven SPBA wells are as follows:

- TCE concentrations range from undetected at 1.0 µg/L (several samples) to 1.8 µg/L (MW-22); and
- PCE concentrations range from undetected at 1.0 µg/L (MW-108S and MW-108D) to 4.9 µg/L (MW-22).

Analytical results for detected COCs in the 2024 annual groundwater samples from six SPA wells are as follows:

- TCE concentrations range from undetected at 1.0 µg/L (several samples) to 27 µg/L (MW-150);
- PCE concentrations range from undetected at 1.0 µg/L (MW-150) to 19 µg/L (MW-110);
- The cis12DCE concentrations range from undetected at 1.0 µg/L (several samples) to 39 µg/L (MW-150); and
- 11DCE concentrations range from undetected at 1.0 µg/L (several samples) to 0.35 J µg/L (MW-150).

In Levee Area, TCE, PCE, and cis12DCE were detected in 2024 annual groundwater samples at well pair MW-101S/D. Groundwater concentrations range from 0.63 J µg/L (MW-101S) to 4.2 µg/L (MW-101D) for TCE and from 3.7 µg/L (MW-101S) to 3.9 µg/L (MW-101D) for PCE. The cis12DCE concentrations range from undetected at 0.42 J µg/L (MW-101S) to 6.8 µg/L (MW-101D).

Along the West Side of Codorus Creek at Waterloo™ multilevel well MW-148A, no COCs were detected in the annual 2024 groundwater samples from the two sample ports.

Analytical results for detected COCs in the 2024 annual groundwater samples from four NSP wells are as follows:



- TCE concentrations range from undetected at 1.0 µg/L (several samples) to 0.94 J µg/L (MW-82);
- PCE concentrations range from undetected at 1.0 µg/L (several samples) to 1.3 µg/L (MW-82); and
- The cis12DCE concentrations range from undetected at 1.0 µg/L (several samples) to 3.7 µg/L (MW-5).

## 2.3 SPBA Extraction and Treatment System Evaluation

The performance of the SPBA groundwater extraction and treatment system is evaluated in accordance with Section 4.3.3.1 of the PRCP. The objective of the groundwater extraction system is to maintain a groundwater gradient that slopes from off-Site wells located along Canterbury Lane toward on-Site wells located in the SPBA. The treatment system objective is sufficient removal of VOC mass to meet National Pollutant Discharge Elimination System (NPDES) permit requirements. The layout of the groundwater extraction and treatment system is shown on **Figure 2.3-1**.

A detailed evaluation of the groundwater extraction and treatment system performance in 2024 is presented in the Groundwater Extraction and Treatment System Annual Operations Report for the Period of January 1 through December 31, 2024 (Hydro-Terra Group [HTG], 2025). As discussed in that report, the groundwater extraction and treatment system operated nearly continuously with few off periods in 2024.

### 2.3.1 Groundwater Gradients Developed by Pumping

Based on the September 2024 groundwater elevation contour data shown on **Figure 2.3-2**, a coalesced cone of depression was maintained around extraction wells CW-21 and CW-22. This is shown by the closed 320-foot to 350-foot amsl contours on the figure. Although a cone of depression is not shown around CW-23 on **Figure 2.3-2**, this well is installed in a less permeable portion of the aquifer and therefore the pumping influence at CW-23 is less pronounced (GSC, 2019a).

Further evaluation of the groundwater extraction system influence includes comparing data from paired wells (on-Site extraction well with a down-gradient, off-Site sentinel well) to gauge pumping effects (GSC, 2019a). Elevation data from well groupings CW-21 and MW-166, CW-22 and

MW-167, and CW-23 and MW-168 (during pumping in 2024) verify that the groundwater gradient slopes from the wells located along Canterbury Lane toward the wells located in the SPBA as follows:

- **Figure 2.3-3** shows a higher water level elevation exists in MW-166 than in wells influenced by pumping CW-21, except in residuum wells MPE-1 and MW-64S. These residuum wells are constructed in localized zones of low permeability not well-connected to the surrounding aquifer.
- **Figure 2.3-4** shows a higher water level elevation exists in MW-167 than in wells influenced by pumping CW-22.
- **Figure 2.3-5** shows a higher water level elevation exists in MW-168 than in all but one well (MW-163) influenced by pumping CW-23; however, this well is still in the zone of groundwater capture of pumping well CW-23.

These results are consistent with historical results and verify that the groundwater gradient objective for the groundwater extraction system performance was met in 2024.

### 2.3.2 Extraction Well Pumping Rates

In 2024, the groundwater extraction system pumped 3.2 million gallons (MG) of groundwater from three SPBA wells (**Table 2.2-5**). **Table 2.3-1** presents 2024 average monthly pumping rates for the three extraction wells that were calculated based on flow-meter readings. The average monthly rates for CW-21, CW-22, and CW-23 are 3.6, 1.9, and 0.5 gallons per minute (gpm), respectively. The average monthly rate for the combined flow from the extraction wells was 6.0 gpm. The average rate in 2024 is approximately 15 percent less than the annual average recharge rate of 7.1 gpm established during the monitored startup of the extraction system (GSC, 2019a). However, the objective of the groundwater extraction system was still met with these lower pumping rates.

**Figure 2.3-6** presents average daily pumping rates for CW-21, CW-22, and CW-23 and the combined flow from the extraction wells in 2024. Total gallons pumped, average pumping rates, precipitation amounts, and temporary shutdown of the system are included in **Appendix D**. These data provide information for potential system optimization and rehabilitation, if necessary.

### 2.3.3 VOC Mass Removal

The 2024 quarterly performance data for the groundwater extraction system operation is shown on **Table 2.2-5**. The table presents sample collection dates, VOC concentrations in the combined groundwater flow from SPBA extraction wells, metered groundwater volume extracted, and VOC mass removed. As shown on the bar graph on **Figure 2.3-7**, the rate of VOC mass removed from the aquifer ranged from 0.4 pounds in the fourth quarter to 0.7 pounds in the second quarter. A total of 2.3 pounds of VOCs were removed by the groundwater extraction system in 2024.

## 2.4 NPBA COC Migration Assessment

Section 4.4 of the PRCP requires an annual assessment to confirm that migration of COCs above established limits north and west of the NPBA is not occurring. The assessment is performed by evaluating groundwater quality data and hydraulic gradients.

### 2.4.1 COC Migration in Northern NPBA

An evaluation of 2024 water table contours (**Figure 2.4-1**) indicates that off-Site migration of COCs did not occur north of the NPBA.

In 2024, just as in 2019 through 2023, a northern hydraulic gradient documented in 2018 (GSC, 2019b) was not observed. The 2024 measured hydraulic gradient indicates groundwater flow to the southwest, consistent with data plotted prior to and after 2018. The water table contours on **Figure 2.4-1** show a steep hydraulic gradient from CW-2 (524.92 feet amsl) and MW-9 (525.74 feet amsl) to CW-4 (516.37 feet amsl) and MW-12 (499.21 feet amsl), indicating groundwater flow away from RW-2 and RW-4 and southwest in the NPBA.

### 2.4.2 COC Migration in Western NPBA

The evaluation of 2024 hydraulic gradient and chemistry data indicates that off-Site migration of COCs did not occur west of the NPBA boundary.

The water table contours shown on **Figure 2.4-1** indicate the hydraulic gradient and subsequent groundwater flow is southwest along the NPBA boundary. This is shown by the arrow on

**Figure 2.4-1**, that follows the NPBA boundary from MW-18S (468.27 feet amsl) to MW-142S (433.44 feet amsl) and then to MW-143S (364.34 feet amsl).

COC migration westward past the NPBA boundary is not occurring at levels of concern based on low COC concentrations (less than 1.0 µg/L) in groundwater from wells MW-142S/D and MW-143S/D. These wells are directly downgradient of wells MW-18S/D along the NPBA boundary. Groundwater from MW-18S/D, analyzed in October 2024, contains TCE concentrations of 1.5 µg/L and 1.3 µg/L, respectively. COC analytical results from samples in MW-142S/D and MW-143S/D reported no detection of TCE.

## 2.5 TI Area 1 Perimeter Assessment

Groundwater from wells MW-5, MW-6, MW-88, MW-101S, and MW-101D outside the TI Area 1 boundary contain TCE, PCE, and cis12DCE at low levels. A discussion of 2024 sampling and analysis for these wells is presented in Section 2.2.2.

Historical analytical data on **Table 2.2-1** shows that COC concentrations with the pumps off (August 2021 to present) are similar to those measured during WPL groundwater extraction system pumping. For the two years prior to discontinuation of pumping, a maximum TCE concentration of 0.42 J µg/L and a maximum cis12DCE concentration of 4.6 µg/L were measured in groundwater from MW-5, while post-pumping samples show maximum TCE and cis12DCE concentrations of 0.47 J µg/L and 6.0 µg/L, respectively. PCE was not detected in both pre- and post-pump shutdown samples from MW-5. In 2020 during pumping, groundwater from MW-6 contained a maximum TCE concentration of 0.21 J µg/L, no other COCs were detected in pre- or post-2021 samples. Groundwater collected and analyzed from MW-88 in 2019 and 2020 contained maximum TCE and PCE concentrations of 0.35 J µg/L and 1.0 µg/L, respectively; cis12DCE was not detected. Maximum TCE, PCE, and cis12DCE concentrations in MW-88 groundwater with the pumps not operating were 2.4 µg/L, 17 µg/L, and 1.8 µg/L, respectively. Maximum TCE, PCE, and cis12DCE concentrations in groundwater from MW-101D with the pumps running in 2019 and 2020 were 7.9 µg/L, 6.0 µg/L, and 12 µg/L, respectively; post-2021 sampling yielded maximum values for these COCs of 6.5 µg/L, 5.6 µg/L, and 13 µg/L, respectively. The maximum 2019 and 2020 TCE, PCE, and cis12DCE concentrations in MW-101S samples with the pumps operating were 1.2 µg/L, 5.0 µg/L, and 1.2 µg/L;

maximum concentrations for these same COCs with the pumps turned off after 2021 were 0.76 J µg/L, 4.2 µg/L, and 0.7 J µg/L, respectively.

Analytical data plots for samples collected during pumping and non-pumping conditions are shown on the time versus concentration graphs in **Appendix E**. These plots show that COC concentrations in groundwater from wells MW-5, MW-6, MW-88, MW-101S, and MW-101D declined to low levels during pumping, and have remained at or near these levels after the pumps were turned off. This shows that there is little to no rebound occurring in TI Area 1 perimeter groundwater.

## 2.6 Surface Water Monitoring Results

Surface water monitoring and data evaluation were conducted monthly in 2024 following Section 4.5 protocol in the PRCP to verify compliance with applicable water quality criteria (AWQC) in Codorus Creek. The monitoring was conducted in January through December 2024 with the WPL groundwater extraction system off.

Monthly surface water samples were collected for analysis of VOCs from 12 locations in Codorus Creek in 2024. This includes three focused, diffuse groundwater discharge locations (COD-SW-15, COD-SW-17, and COD-SW-26) and nine surface-water sampling locations downstream of diffuse discharge locations (COD-SW-6, COD-SW-7, COD-SW-8, COD-SW-9, COD-SW-13, COD-SW-16, COD-SW-27, COD-SW-28, and COD-SW-29). These sampling locations and AWQC assigned to each sampling location are shown on **Figure 2.6-1** and **Table 2.6-1**, respectively.

Surface water COCs detected in Codorus Creek are PCE, TCE, cis12DCE, and VC. **Table 2.6-2** provides the AWQC for each surface water COC (i.e., fish and aquatic life criteria and human health criteria).

Codorus Creek samples were collected during varying stream flow rates shown on **Table 2.6-3**. This table also provides the average daily flows in Codorus Creek based on published flow data from United States Geological Survey (USGS) Codorus Creek Gaging Station (USGS 01575500) for each recorded sampling date. Stream flow during sampling in 2024 ranged from 62 to 759 cubic feet per second (CFS).

Surface water samples were collected during varying precipitation and stream flows that represent typical seasonal variations in Codorus Creek. Therefore, the monthly samples were collected during conditions that represent typical flow variability in Codorus Creek and precipitation amounts.

VOC analytical results of monthly surface water samples collected from 12 locations in Codorus Creek in 2024 (144 samples) are provided on **Table 2.6-4**. **Table 2.6-5** presents a comparison of AWQC with the COC analytical results at the sample locations in Codorus Creek. Reported COC concentrations were below the AWQC at each sampling location in 2024. The result of this comparison indicates that compliance was maintained for all surface water COCs at all sample locations with the WPL groundwater extraction system shut down. The ranges of COC concentrations from the 12 sampling locations in Codorus Creek are as follows:

- TCE concentrations range from undetected at 0.5 µg/L to 7.0 µg/L;
- PCE concentrations range from undetected at 0.5 µg/L to 200 µg/L;
- The cis12DCE concentrations range from undetected at 0.5 µg/L to 5.0 µg/L; and
- VC was not detected at 0.5 µg/L in 2024 samples.

As discussed in Section 4.5 of the PRCP, monthly monitoring of surface water quality in Codorus Creek will be conducted with the WPL groundwater extraction system off until August 2025. If the results verify continued compliance with AWQC in the Codorus Creek, a proposal to discontinue or modify the frequency of surface water monitoring will be submitted for approval by PADEP and USEPA.

### 3 MNA ASSESSMENT

This Section provides the results of the statistical trend analysis performed for groundwater COC concentrations in MNA areas outside of TI Area boundaries. The trend analysis followed the procedures presented in Section 4.4.2 of the PRCP and includes the data collected in 2024.

Information for COCs detected in groundwater from the 44 MNA wells and the results of trend analyses on the MNA data for each area are presented on **Tables 3.1-1** through **3.1-10**. Information used in the statistical analysis for each COC includes the data used in the analyses (well identification, sample collection period, frequency of detection, regulatory level, and maximum detected concentration), results of trend analysis, predicted date when trend line reaches regulatory value, and the calculated 95 percent upper confidence limit of the arithmetic mean (UCL95). Data used for the trend analysis comprises the most recent analytical results from samples collected at intervals consistent with the PRCP (either annually or quarterly). These datasets, which have been updated to include results from 2023 and 2024, align with those used to demonstrate the attainment of the site-specific standard (SSS) for groundwater in the Final Report (GSC, 2024). Statistical trend analysis graphs and outputs for each COC are included in **Appendix F**.

Wells with four or more COC detections were initially evaluated using Mann-Kendall trend test to determine whether the measured COCs in groundwater from each well showed a statistically significant trend (either increasing or decreasing) at an 80 or 90 percent confidence coefficient. The Theil-Sen trend line method was then used to evaluate the trend and project when, or if, the trend line would reach the MCLs for each COC. For wells with COC detections without a statistically significant trend (indicated as “none” on the Tables), the calculated UCL95 was used to determine whether the concentration is less than or greater than the MCL.

Analytical results from groundwater in MNA wells with three or less COC detections and below MCLs are identified on the Tables. For purposes of the MNA assessment, no additional evaluation is necessary for these wells and the MCL is assumed to be met.

#### 3.1 MNA Trends

The statistical trend analysis results for COCs in MNA areas are shown on **Tables 3.1-1** through **3.1-10**. A summary of the statistically significant trends from the analysis is as follows:

### 3.1.1 NPBA Wells

Downward trends were determined in groundwater data for TCE in nine NPBA wells (MW-3, MW-9, MW-12, MW-18S, MW-18D, MW-20S, MW-143S, CW-1A, and CW-2); PCE in six wells (MW-3, MW-12, MW-16S, MW-20S, CW-1A, and CW-2); cis12DCE in seven wells (MW-3, MW-9, MW-16S, MW-18S, MW-18D, MW-20S, and CW-1A); and VC in three wells (MW-9, MW-18S, and MW-18D). The downward trends in TCE data from MW-12 and CW-1A are projected to reach the MCL value in 2031 and 2029, respectively. No trends were determined for TCE data from two wells (MW-16S and MW-20M), PCE data from one well (MW-143S), and cis12DCE data from one well (CW-2). Upward trends were determined in PCE data from one well (MW-20M) and cis12DCE data from two wells (MW-12 and MW-143D). The PCE concentration data from MW-20M and the cis12DCE concentration data from MW-143D are currently below the MCL values but trending upward, projected to reach the MCL values in 2134 and 2244, respectively. The cis12DCE concentration data from MW-12 are currently greater than the MCL value.

### 3.1.2 ESP Wells

Downward trends were determined in groundwater data for TCE from two ESP wells (MW-14 and MW-65S). No trends were determined in groundwater data for TCE from one well (MW-2) and PCE from three wells (MW-2, MW-14, and MW-65S).

### 3.1.3 SCSA Wells

Downward trends were determined in groundwater data for TCE from six SCSA wells (MW-67S, MW-67D, MW-69, MW-79, MW-88, and MW-115); cis12DCE from four wells (MW-67S, MW-79, MW-88, and MW-115); 11DCA from two wells (MW-79 and MW-115); and 11DCE, 1,2-dichloroethane (12DCA), benzene, and MTBE from one well (MW-115). The downward trends in data for 11DCA, benzene, and MTBE at MW-115 are projected to reach the MCL value in 2032, 2026, and 2027, respectively. No trends were determined in groundwater data for TCE from one well (MW-111), PCE data from two wells (MW-67S and MW-88), cis12DCE data from three wells (MW-67D, MW-69, and MW-111), VC data from one well (MW-115), 11DCE data from two wells (MW-67S and MW-111), and TCA data from one well (MW-67S). An upward trend in the data for TCE was determined from one well (MW-112). The TCE concentrations in groundwater from



MW-112 are currently below the MCL value but trending upward, projected to reach the MCL value in 2094.

### **3.1.4 SPBA Wells**

Downward trends were determined in groundwater data for TCE in four SPBA wells (MW-22, MW-165, MW-166, and MW-167) and PCE in three wells (MW-165, MW-167, and MW-168). No trends were determined in groundwater data for PCE in two wells (MW-22 and MW-166).

### **3.1.5 SPA Wells**

Downward trends were determined in groundwater data for TCE in four SPA wells (MW-43D, Cole D, MW-110, and MW-150), PCE in two wells (MW-43D and MW-110), cis12DCE in one well (MW-43D), and 11DCE in one well (MW-150). The downward trends in groundwater data for TCE at MW-150 and PCE at MW-110 are projected to reach the MCL values in 2035 and 2032, respectively. No trends were determined in groundwater data for TCE in one well (Cole Steel (MW-12)), PCE in three wells (Cole D, Cole Steel (MW-12), and GM-1D), and cis12DCE in two wells (Cole Steel (MW-12) and MW-150).

### **3.1.6 Levee Area Wells**

Downward trends were determined in groundwater data for TCE, PCE, and cis12DCE at MW-101D. No trends were determined in groundwater data for TCE and cis12DCE at MW-101S. An upward trend was determined for PCE in groundwater data from MW-101S. PCE concentrations in groundwater from MW-101S are currently below the MCL value but trending upward, projected to reach that value in 2030.

### **3.1.7 West Side of Codorus Creek Wells**

No trends were determined in COC data in groundwater from multi-level well MW-148A (two sample ports) because no COCs have been detected above the laboratory reporting limits.

### 3.1.8 NSP Wells

A downward trend was determined in the groundwater data for TCE from one NSP well (MW-82). No trends were determined in the groundwater data for TCE from MW-5 and PCE from MW-82. Downward trends were determined in the groundwater data for cis12DCE at MW-5 and MW-82.

## 3.2 Comparison of Statistical Metrics to Regulatory Levels

**Table 3.1-11** provides a summary of the statistical analysis results performed in 2024 for MNA in groundwater samples from 44 wells (ten COCs from each sample or 440 analyses). A summary of groundwater concentration statistical metrics compared to regulatory levels indicates the following:

- Data analyses from 29 wells show the concentrations in groundwater currently are less than the MCL.
- Data analyses from five wells show statistically significant downward trends in groundwater that are projected to be less than the MSC in the future.
- Data analyses from five wells show statistically significant increasing trends. The concentrations in groundwater from four of these wells are currently less than the MCL but are projected to be greater than the MCL in the future. The cis12DCE concentration in groundwater from MW-12 is currently greater than the MCL.
- Data analyses from 27 wells do not have a statistically significant trend but have an UCL95 that is less than the MCL.
- Data analyses from ten wells without a statistically significant trend show an UCL95 that is greater than the MCL.

The MNA trend analyses performed in 2024 yielded similar results to those presented in the Final Report (GSC, 2024).

Statistical analysis of area-specific COC concentrations in groundwater compared to regulatory values shows the following:

- NPBA Wells – Groundwater analytical data from eight of the 12 wells show COC concentrations less than the MCLs. The trend line is above the MCL for TCE in data from four wells (MW-12, MW-16S, MW-20M, and CW-1A), PCE in data from one well

(MW-20M), and cis12DCE in data from one well (MW-12). The cis12DCE concentrations in MW-143D are currently less than the MCL value; however, the upward trend line shows the groundwater concentration will be greater than this value in the future. The TCE concentrations in MW-20S are greater than the MCL value but, the downward trend line shows the value is reached in 2024.

- ESP Wells – Groundwater analytical data from two of the three wells show COC concentrations less than the MCLs. The trend line is above the MCL for PCE in data from one well (MW-2).
- SCSA Wells – Groundwater analytical data from five of the eight wells show COC concentrations less than the MCLs. The trend line is above the MCL for TCE in data from one well (MW-112), for PCE in data from one well (MW-88); and for VC, benzene, and MTBE in data from one well (MW-115).
- SPBA Wells – Groundwater analytical data from five of the seven wells show COC concentrations less than the MCLs. The trend line is above the MCL for PCE in data from two wells (MW-22 and MW-166).
- SPA Wells – Groundwater analytical data from one well shows COC concentrations less than the MCL. The trend line is above the MCL for TCE in data from two wells (Cole Steel (MW-12) and MW-150) and for PCE in data from three wells (Cole D, GM-1D, and MW-110).
- Levee Area Wells – Groundwater analytical data from one of the two wells shows COC concentrations less than the MCL. The trend line is above the MCL for PCE in data from one well (MW-101S).
- West Side of Codorus Creek – Groundwater analytical data from the two wells show COC concentrations less than the MCLs.
- NSP Wells – Groundwater analytical data from the four wells show COCs concentrations less than the MCLs.

### 3.3 Recommendations

We recommend continued annual groundwater monitoring in accordance with Section 4.4 of the PRCP, including the use of the calculated UCL95 to determine whether MCLs are achieved. The purpose of continued monitoring is to develop a robust groundwater data set for future MNA analysis and evaluation of additional lines of evidence for MNA in accordance with Section 4.4 of the PRCP.

## 4 MONITORING AND MAINTENANCE OF ENGINEERING CONTROLS

This Section documents the effectiveness of engineering controls in 2024 at maintaining the remediation standards under Act 2 and the Final Remedy in the FDRTC. The activities include monitoring and maintenance of caps, West Campus vapor barrier, and SPBA groundwater extraction and treatment system. The existing environmental covenant for the West Campus and the environmental covenants to be recorded for the East and West Campuses include these obligations.

### 4.1 Monitoring and Maintenance of Caps

Section 4.3 of the PRCP contains procedures for monitoring and maintaining caps on the East and West Campuses (LUA 1, LUA 2, and LUA 3). The caps protect receptors from direct contact with contaminated soil or waste and have the additional benefit of limiting infiltration in certain areas of the West Campus property. Monitoring in 2024 consisted of reviewing low altitude aerial photographs using unmanned aircraft system (drone) technology, conducting a walk-over inspection, and interviewing property representatives to evaluate and document the integrity of the caps to confirm no deviation from the cap locations and materials in Section 3.2.1 of the PRCP. Maintenance in 2024 included documenting that cap repair and replacement activities were performed in accordance with Section 5.1 of the PRCP.

In March 2024, the aerial photograph review and the walk over inspection of caps on the East and West Campuses documented no evidence of changes (e.g., damage, repair, replacement, alteration to type of material, and coverage size). However, the interview with property owners discovered that four caps were altered in some way.

Three caps on the East Campus property and one cap on the West Campus property were removed and replaced during the evaluation period. Cap removal and replacement on the East Campus property was performed during the installation of a new stormwater management inlet and piping south of Building 3 in October 2024, repair of a sinkhole near Building 70 in November 2024, and installation of two pits for manufacturing equipment inside the northern end of Building 3 in December 2024. Cap removal and replacement on the West Campus property was performed during the installation of new fence/gate posts at four locations in June 2024. Cap maintenance in the WPL was performed in September and October 2024 (asphalt sealing and crack filling).

As indicated on forms for the East and West Campuses in **Appendix G**, the integrity of capped areas was maintained in 2024; cap repair and replacement activities were performed in conformance with the PRCP.

## **4.2 Monitoring and Maintenance of Vapor Barrier**

Section 4.3 in the PRCP contains procedures for monitoring and maintaining the integrity of the vapor barrier beneath the ERLC warehouse building on the West Campus property (LUA 3). The vapor barrier is beneath the concrete slab of the building to prevent potential vapor intrusion from soil and groundwater into the building. The vapor barrier is assumed to meet requirements if the slab is intact.

Annual monitoring in 2024 included a walk-over inspection of the concrete slab covering the vapor barrier and an interview with a representative of the West Campus property. The inspection and interview confirmed that the concrete slab and vapor barrier are intact. Form B in **Appendix G** contains documentation for the 2024 vapor barrier monitoring activities.

## **4.3 Monitoring and Maintenance of the Groundwater Extraction and Treatment System**

Section 5.3 of the PRCP contains procedures for monitoring and maintaining the groundwater extraction and treatment system (GWETS) in accordance with the fYNOP Operation and Maintenance (O&M) Manuals (HTG, 2019 and 2022). A description of GWETS maintenance during 2024 is presented in the Groundwater Extraction and Treatment System Annual Operations Report for the Period of January 1 through December 31, 2024 (HTG, 2025). A copy of the report is provided in **Appendix H**.

Groundwater was extracted during 2024 from three active collection wells (CW-21, CW-22, and CW-23) in the SPBA. Five collection wells (CW-9, CW-13, CW-15A, CW-17, and CW-20) in the WPL were not operating in 2024 but remain functional. Extracted groundwater was treated and discharged to Codorus Creek.

Activities required to meet the performance goal for the GWETS consist of ongoing operation, monitoring, maintenance, and reporting described in the O&M Manuals. These activities are documented in the 2024 Annual Operation Report and include the following:

- Performing inspections, preventative maintenance, cleaning, and repairs;
- Responding to system shutdowns and alarms;
- Monitoring extraction well pumping rates and treatment processes;
- Sampling system influent and effluent water;
- Monitoring groundwater levels and sampling of wells;
- Reporting system compliance monitoring under PADEP Industrial Wastewater (Groundwater Cleanup) NPDES Permit, PADEP Air Quality State Only Operating Permit and Susquehanna River Basin Commission (SRBC) permit; and
- Reporting annual system performance under PADEP Chapter 110 (Water Allocation, Water Management Plan Water Withdrawal, and Use Reporting).

Monitoring of groundwater elevations and chemistry in 2024 were discussed previously in Sections 2.1 and 2.2, respectively. Monitoring for treatment system effluent limitations in accordance with the Industrial Wastewater NPDES permit were completed for Outfall 003. Analytical results for all samples demonstrated compliance with discharge requirements for the NPDES permit in 2024. Treatment system compliance reporting in 2024 included monthly and quarterly NPDES permit reports, quarterly SRBC reports, and an annual PADEP groundwater withdrawal report.

## 5 VERIFICATION OF INSTITUTIONAL CONTROLS

This Section verifies institutional controls, and documents inspection and notification activities performed in 2024. The activities confirm continued attainment of remediation standards under Act 2 and the Final Remedy in the FDRTC. These activities include verification of appropriate groundwater use and continued non-residential land use, evaluation of potential vapor intrusion into new inhabited spaces, monitoring of intrusive activity and management of waste generated, and periodic notification of potential hazards for utility workers contacting shallow groundwater. The existing environmental covenants for the West Campus and former K. G. Whiteford Ltd. properties and the environmental covenants to be recorded for the East and West Campuses include these obligations.

### 5.1 Assessment of Groundwater Use

Groundwater is only used for environmental sampling and remediation on the East and West Campuses (LUA 1, LUA 2, and LUA 3) and non-potable use on surrounding properties (LUA 4, LUA 5, and LUA 6). The annual assessment in 2024 included reviewing available public records to identify potential changes to groundwater use and communicating with the local water supplier to confirm no changes to groundwater use in accordance with Section 4.1.2 in the PCRP. These activities did not identify changes to groundwater use (new water supply or withdrawal wells) in LUAs 1, 2, 3, 4, 5, and 6 from conditions described in the Final Report. Form C in **Appendix G** contains documentation for the 2024 assessment activities.

### 5.2 Assessment of Non-Residential Land Use

Land use on the East and West Campuses (LUA 1, LUA 2, and LUA 3) and surrounding properties (LUA 5 and LUA 6) is non-residential. Annual assessment in 2024 included reviewing aerial photographs and conducting a walk-over inspection to confirm non-residential land use in accordance with Section 4.1.1 in the PCRP. The review and assessment activities confirmed no residential land use on the East and West Campuses and surrounding properties. Form D in **Appendix G** contains documentation for the 2024 assessment activities.

### 5.3 Assessment of Potential Vapor Intrusion into Future Inhabited Spaces

Section 4.1 in the PCRP requires a vapor intrusion pathway evaluation or presumptive mitigation measures (e.g., vapor barrier or sub-slab depressurization system) prior to construction of a new

inhabitable structure on the East and West Campuses (LUA 1, LUA 2, and LUA 3). Annual assessment in 2024 included reviewing aerial photographs, conducting a walk-over inspection, and interviewing property representatives to determine whether new inhabited space(s) exist and/or vapor intrusion evaluation/mitigation measures were performed. The reviews, inspections, and interviews identified no new inhabited space(s) on the East and West Campus properties. Form E in **Appendix G** contains documentation for the 2024 assessment activities.

#### **5.4 Assessment and Verification of Intrusive Activity and Waste Management Controls**

Section 4.2 in the PRCP contains procedures for conducting and documenting intrusive activities and managing waste generated during intrusive activities on the East and West Campuses (LUA 1, LUA 2, and LUA 3). These procedures are used to prevent exposure to contaminated soil/fill material, water, and ordnance hazards during intrusive activities and to manage waste according to applicable laws, regulations, guidance, and policies. Intrusive activities are defined in the PRCP as earthwork, including without limitation any digging, excavating, drilling, grading, pile driving, and/or removal of any asphalt, concrete, soil, or excavating other ground cover.

One intrusive activity was documented on the West Campus property in 2024 that consisted of installing new fence/gate posts at four locations in June 2024. As shown on Form F in **Appendix G**, this activity and management of the waste generated were conducted in accordance with the PRCP.

Three intrusive activities were documented on the East Campus property in 2024 that included installation of a new stormwater management inlet and piping south of Building 3 in October 2024, repair of a sinkhole near Building 70 in November 2024, and installation of two pits for manufacturing equipment inside the northern end of Building 3 in December 2024. As shown on Form F in **Appendix G**, the stormwater management and sinkhole repair excavations and subsequent waste management activities were conducted in accordance with the PRCP. During the pit excavations, removed material was not monitored by a qualified environmental professional or sampled prior to disposal in accordance with the PRCP.



## 5.5 Periodic Notification Regarding Potential Exposure to Utility Workers

The Groundwater RA (Newfields, 2018) identified the potential for utility worker exposure to shallow impacted groundwater during excavation activities on the K. G. Whiteford Ltd. property in LUA 5 and the properties in LUA 6. This potential exposure pathway has been addressed by notifying the property owners annually of the potential risk in accordance with Section 4.1 of the PRCP.

In June 2024, letters were sent to the owner of the K. G. Whiteford Ltd. property in LUA 5 and the property owners in LUA 6. Copies of the letters were provided to USEPA, PADEP, the municipality, and public water and sewer providers operating within the municipality.

As shown on copies of the letters in **Appendix I**, the property owners were notified of the potential risks and the need to exercise reasonable caution in planning and conducting intrusive activities. The letters requested that the current owner of the East Campus property be contacted if an intrusive activity is anticipated. When notified, the owner of the East Campus property will evaluate current environmental conditions and provide notice to the property owner regarding the need for measures to protect human health and the environment during the work.

## 6 COMMUNITY RELATIONS

This Section documents communication and public involvement activities that occurred in 2024 in accordance with Section 6.0 of the PRCP.

In August 2024, the fYNOP Public Information and Involvement Plan (PIIP) was updated to include information on the Final Report and changes to project contacts. The PIIP was initially developed in 2004 and established a forum and procedures for informing the community of the findings of planned and future investigations and corrective measures.

In December 2024, a community update newsletter (Issue 22) was distributed. Newsletters are prepared annually to provide news and information on the progress of corrective measures. Copies of the 2024 PIIP and newsletter are available on the public website (<https://yorksiteremediation.com>).

An information line is maintained for the public to ask questions and is monitored by the owner of the East Campus property. In 2024, no calls or messages to the fYNOP public information and messaging line were received.

## 7 SUMMARY AND PROPOSED PRCP AMENDMENTS

A summary of PRCP activities and proposed amendments are provided below. Reporting requirements for PRCP items contained in this 2024 annual assessment include monitoring groundwater and surface water, assessing MNA, monitoring and maintaining engineering controls, assessing and verifying institutional controls, and documenting notification activities required in the PRCP. The implemented engineering and institutional controls were confirmed to be protective of human health and the environment in 2024. Four amendments are proposed and, if accepted, will modify the scope of PRCP activities for 2025.

### 7.1 Summary of PRCP Results for 2024

The sampling level of effort in 2024 consisted of collecting groundwater samples from 50 wells that include 44 wells to gauge MNA progress, three SPBA extraction wells to monitor pumping effectiveness, and three NPBA wells to assess COC migration. COCs detected above MCLs in 2024 include PCE (samples from four wells), TCE (samples from eight wells), cis12DCE (samples from two wells), VC (a sample from one well), and benzene (a sample from one well). Of these COCs, PCE concentrations ranged from undetected at 1.0 µg/L to 69 µg/L; TCE concentrations ranged from undetected at 1.0 µg/L to 55 µg/L; cis12DCE concentrations ranged from undetected (at 1.0 µg/L) to 84 µg/L; VC concentrations ranged from undetected (at 1.0 µg/L) to 89 µg/L; and benzene concentrations ranged from undetected (at 1.0 µg/L) to 6.1 µg/L.

Surface water COCs detected in Codorus Creek are PCE, TCE, cis12DCE, and VC. The VOC analytical results of the monthly surface water samples collected from 12 locations in Codorus Creek in 2024 (144 samples) reported COC concentrations below the AWQC at each sampling location. The result of this comparison indicates that compliance was maintained for all surface water COCs at all sample locations with the WPL groundwater extraction system shut down. TCE concentrations ranged from undetected at 0.5 µg/L to 7.0 µg/L; PCE concentrations ranged from undetected at 0.5 µg/L to 200 µg/L; cis12DCE concentrations ranged from undetected at 0.5 µg/L to 5.0 µg/L; and VC was not detected at 0.5 µg/L in 2024 samples.

An evaluation of 2024 water table contours and groundwater chemistry indicates that off-Site COC migration did not occur north or west of the NPBA boundary. In 2024, just as in 2019 through 2023, a northern hydraulic gradient documented in 2018 was not observed. In the western part of the NPBA,

the hydraulic gradient and subsequent groundwater flow is southwest along the NPBA boundary. COC migration westward past the NPBA boundary is not occurring at levels of concern based on low COC concentrations (less than 1.0 µg/L) in groundwater from wells MW-142S/D and MW-143S/D. Based on years of consistent data to confirm these flow paths, we recommend discontinuation of this yearly assessment.

The MNA trend analyses performed in 2024 yielded similar results to those presented in the Final Report. Continued annual groundwater monitoring and MNA assessment is recommended to develop a robust groundwater data set for future MNA analysis.

An evaluation of engineering controls in 2024 included monitoring and maintaining the SPBA groundwater extraction and treatment system, caps, and West Campus vapor barrier.

The SPBA groundwater extraction and treatment system operated nearly continuously with few off periods in 2024. Based on the September 2024 groundwater elevation contour data, the pumping effects are consistent with historical results in the SPBA that verify attainment of the groundwater gradient objective for groundwater extraction system performance. Extracted groundwater was monitored for treatment system effluent limitations in the NPDES permit before discharge to Outfall 003 at Codorus Creek. Analytical results for all samples demonstrated compliance with discharge requirements for the NPDES permit in 2024.

Monitoring and maintaining caps on the East and West Campuses (LUA 1, LUA 2, and LUA 3) were completed by reviewing March 2024 low altitude aerial photographs from unmanned aircraft system (drone) technology, conducting a walk-over inspection, and interviewing property representatives to evaluate and document the integrity of the caps. In 2024, cap repair and replacement activities were performed in accordance with Section 5.1 of the PRCP. Three cap areas on the East Campus property and one cap area on the West Campus property were removed and replaced during the evaluation period. The vapor barrier beneath the concrete slab of the ERLC warehouse building on the West Campus property (LUA 3) was inspected and is intact.

Institutional control activities include verification of appropriate groundwater use and continued non-residential land use, evaluation of potential vapor intrusion into new inhabited spaces, monitoring of intrusive activity and management of waste generated, and periodic notification of potential

hazards for utility workers contacting shallow groundwater. The verification activities documented that groundwater is only used for environmental sampling and remediation on the East and West Campuses (LUA 1, LUA 2, and LUA 3) and non-potable use on surrounding properties (LUA 4, LUA 5, and LUA 6). No changes to groundwater use (new water supply or withdrawal wells) were identified in LUA 1 through LUA 6. Aerial photographs and walk-over inspection confirmed non-residential land use in accordance with Section 4.1.1 in the PRCP. Aerial photography review, a walk-over inspection, and interview activities identified no new inhabited space(s) on the East and West Campus properties.

One intrusive activity was documented on the West Campus property and three intrusive activities were documented on the East Campus property in 2024. In June 2024, letters were sent to property owners providing notification of the potential risks and the need to exercise reasonable caution in planning and conducting intrusive activities. The letters requested that the current owner of the East Campus property be contacted if an intrusive activity is anticipated. Copies of the letters were provided to the municipality, public water and sewer providers operating within the municipality, USEPA, and PADEP. In August 2024, the fYNOP PIIP was updated to include information on the Final Report and changes to project contacts.

## **7.2 Proposed PRCP Amendments**

The following Sections include proposed amendments to the PRCP. The amendments will be implemented following review and approval by PADEP and USEPA.

### **7.2.1 Reduction in Frequency of SPBA Sampling**

Quarterly groundwater samples have been collected for VOC analysis from active extraction wells CW-21, CW-22, and CW-23 and monitoring wells MW-166, MW-167, and MW-168. Analytical data during the last two years of groundwater extraction system operation (2023 through 2024) have shown consistent PCE and TCE concentrations in groundwater from these wells. Past monitoring has also demonstrated that the operation of the SPBA groundwater extraction is dependable, maintains a groundwater gradient that slopes from these Canterbury Lane monitoring wells to wells located in the SPBA, and is meeting performance objectives. Therefore, we propose to amend the SPBA monitoring requirement in the PRCP from quarterly to twice per year, once in the spring (March) and once

concurrent with the annual MNA monitoring activities (September-October). Quarterly monitoring will continue until this proposed amendment is approved by PADEP and USEPA.

### **7.2.2 Reduction in Frequency of TI Area 1 Monitoring**

Groundwater monitoring around the boundary of TI Area 1 has been conducted quarterly since the shutdown of the WPL groundwater extraction system in September 2021. The objective of monitoring is to confirm potential changes in groundwater chemistry during WPL extraction system shutdown.

Fourteen quarters of groundwater monitoring have been conducted between 2021 and 2024. Monitoring has confirmed non-pumping COC concentrations similar to those measured during WPL groundwater extraction system pumping from wells MW-5, MW-6, MW-88, MW-101S, and MW-101D. Therefore, we propose to amend the monitoring requirement in the PRCP from quarterly to once per year, concurrent with annual MNA groundwater monitoring activities. Quarterly monitoring will continue until this proposed amendment is approved by PADEP and USEPA.

### **7.2.3 Discontinuation of Annual NPBA COC Migration Assessment**

COC migration in the NPBA has been assessed and reported annually since the shutdown of the NPBA groundwater extraction system in 2013. The objective of the assessment is to verify that COC migration was not occurring north and west of the NPBA.

Eleven years of annual COC migration assessment activities conducted between 2013 and 2024 confirm that the hydraulic gradient is south-southwest in the NPBA and migration north and west is not a concern. Therefore, we propose to amend the PRCP to discontinue the requirement for annual assessment of COC migration in the NPBA. Following approval from PADEP and USEPA, this amendment would eliminate the reporting requirement and the collection of groundwater samples from wells MW-142S/D and RW-4 (Folk).

### **7.2.4 Amendment to Intrusive Activity Procedure**

Section 4.2 in the PCRCP contains procedures for conducting and documenting intrusive activities on the East and West Campuses to maintain compliance with the remedy in the Final Report and FDRTC. Procedures for intrusive activities are shown on **Figure 4.2-2** in the PRCP.

We propose an amendment to the intrusive activity procedure in the PCR. The proposed amendment is contained in **Appendix J** and is shown on the flow chart (**Figure 7.2-1**). The amendment includes an additional step in the procedure that allows the qualified environmental professional to determine the reasonable likelihood for exposure to contamination based on the nature of the activity and historical data and operations on the East and West Campuses.

## 8 REFERENCES

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- Hydro-Terra Group (HTG), 2019. Groundwater Extraction and Treatment System Operations and Maintenance Manual, October.
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- Newfields, 2018. Revised Groundwater Human Health Risk Assessment, Former York Naval Ordnance Plant, November 2016 and Revised March 2018.
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## Tables

**TABLE 2.1-1**  
**Site-Wide Water Level and Elevation Data (2021-2024)**  
**Former York Naval Ordnance Plant - York, PA**

| Well Identification | Well Type                | Site-Wide Water Levels |       |         |         |       |         |         |       |         |         |       |         |
|---------------------|--------------------------|------------------------|-------|---------|---------|-------|---------|---------|-------|---------|---------|-------|---------|
|                     |                          | 9/21/21                |       |         | 9/22/22 |       |         | 9/26/23 |       |         | 9/24/24 |       |         |
|                     |                          | MRP                    | DTW   | WL Elev | MRP     | DTW   | WL Elev | MRP     | DTW   | WL Elev | MRP     | DTW   | WL Elev |
| CW-1                | Inactive Collection Well | 570.07                 | 36.01 | 534.06  | 570.07  | 42.69 | 527.38  | 570.07  | 43.71 | 526.36  | 570.07  | 42.91 | 527.16  |
| CW-1A               | Inactive Collection Well | 568.28                 | 32.56 | 528.72  | 568.28  | 39.52 | 528.76  | 568.28  | 39.81 | 528.47  | 568.28  | 39.79 | 528.49  |
| CW-2                | Inactive Collection Well | 556.95                 | 23.97 | 532.98  | 556.95  | 30.37 | 526.58  | 556.95  | 32.47 | 524.48  | 556.95  | 32.03 | 524.92  |
| CW-3                | Inactive Collection Well | 518.66                 | 12.87 | 505.79  | 518.66  | 15.01 | 503.65  | 518.66  | 14.84 | 503.82  | 518.66  | 14.49 | 504.17  |
| CW-4                | Inactive Collection Well | 541.55                 | 21.22 | 520.33  | 541.55  | 24.96 | 516.59  | 541.55  | 25.30 | 516.25  | 541.55  | 25.18 | 516.37  |
| CW-5                | Inactive Collection Well | 470.34                 | 17.78 | 452.56  | 470.34  | 18.95 | 451.39  | 470.34  | 18.76 | 451.58  | 470.34  | 19.00 | 451.34  |
| CW-6                | Inactive Collection Well | 484.67                 | 6.99  | 477.68  | 484.67  | 9.23  | 475.44  | 484.67  | 9.63  | 475.04  | 484.67  | 9.86  | 474.81  |
| CW-7                | Inactive Collection Well | 573.78                 | 47.27 | 526.51  | 573.78  | 41.93 | 531.85  | 573.78  | 43.05 | 530.73  | 573.78  | 42.07 | 531.71  |
| CW-7A               | Inactive Collection Well | 573.91                 | 36.83 | 537.08  | 573.91  | 44.44 | 529.47  | 573.91  | 45.25 | 528.66  | 573.91  | 44.59 | 529.32  |
| CW-9                | Inactive Collection Well | 356.82                 | 13.30 | 343.52  | 356.82  | 16.15 | 340.67  | 356.82  | 14.60 | 342.22  | 356.82  | 15.63 | 341.19  |
| CW-13               | Inactive Collection Well | 358.85                 | 14.49 | 344.36  | 358.85  | 17.56 | 341.29  | 358.85  | 16.67 | 342.18  | 358.85  | 17.57 | 341.28  |
| CW-14               | Monitoring Well          | 361.63                 | 16.25 | 345.38  | 361.63  | 21.27 | 340.36  | 361.63  | 20.34 | 341.29  | 361.63  | 21.35 | 340.28  |
| CW-15A              | Inactive Collection Well | 360.11                 | 12.72 | 347.39  | 360.11  | 17.17 | 342.94  | 360.11  | 15.26 | 344.85  | 360.11  | 17.19 | 342.92  |
| CW-17               | Inactive Collection Well | 358.70                 | 15.31 | 343.39  | 358.70  | 18.38 | 340.32  | 358.70  | 17.46 | 341.24  | 358.70  | 18.42 | 340.28  |
| CW-20               | Inactive Collection Well | 361.49                 | 18.53 | 342.96  | 361.49  | 20.19 | 341.30  | 361.49  | 17.44 | 344.05  | 361.49  | 15.81 | 345.68  |
| CW-21               | Collection Well          | 415.72                 | 86.00 | 329.72  | 415.72  | 94.69 | 321.03  | 415.72  | 94.65 | 321.07  | 415.72  | 94.62 | 321.10  |
| CW-22               | Collection Well          | 415.71                 | 87.59 | 328.12  | 415.71  | 96.70 | 319.01  | 415.71  | 96.91 | 318.80  | 415.71  | 96.83 | 318.88  |
| CW-23               | Collection Well          | 418.11                 | 55.84 | 362.27  | 418.11  | 55.89 | 362.22  | 418.11  | 56.77 | 361.34  | 418.11  | 56.76 | 361.35  |
| MPE-1               | Monitoring Well          | 415.88                 | 48.30 | 367.58  | DRY     | DRY   | DRY     | DRY     | DRY   | DRY     | DRY     | DRY   | DRY     |
| MPE-2               | Monitoring Well          | 415.15                 | 65.77 | 349.38  | DRY     | DRY   | DRY     | DRY     | DRY   | DRY     | DRY     | DRY   | DRY     |
| MPE-3               | Monitoring Well          | 417.65                 | 42.16 | 375.49  | 417.65  | 43.37 | 374.28  | DRY     | DRY   | DRY     | DRY     | DRY   | DRY     |
| MW-1                | Monitoring Well          | 380.73                 | 35.31 | 345.42  | 380.73  | 39.13 | 341.60  | 380.73  | 37.35 | 343.38  | 380.73  | 38.73 | 342.00  |
| MW-2                | Monitoring Well          | 508.88                 | 77.82 | 431.06  | 508.88  | 68.69 | 440.19  | 508.88  | 71.96 | 436.92  | 508.88  | 71.20 | 437.68  |
| MW-3                | Monitoring Well          | 541.10                 | 63.58 | 477.52  | 541.10  | 67.13 | 473.97  | 541.10  | 69.22 | 471.88  | 541.10  | 68.75 | 472.35  |
| MW-5                | Monitoring Well          | 369.71                 | 21.01 | 348.70  | 369.71  | 25.50 | 344.21  | 369.71  | 25.20 | 344.51  | 369.71  | 25.71 | 344.00  |
| MW-6                | Monitoring Well          | 359.62                 | 12.36 | 347.26  | 359.62  | 18.05 | 341.57  | 359.62  | 12.81 | 346.81  | 359.62  | 17.31 | 342.31  |
| MW-7                | Monitoring Well          | 359.48                 | 16.09 | 343.39  | 359.48  | 19.15 | 340.33  | 359.48  | 18.29 | 341.19  | 359.48  | 19.31 | 340.17  |
| MW-8                | Monitoring Well          | 358.09                 | 14.10 | 343.99  | 358.09  | 17.29 | 340.80  | 358.09  | 15.59 | 342.50  | 358.09  | 16.73 | 341.36  |
| MW-9                | Monitoring Well          | 558.78                 | 27.41 | 531.37  | 558.78  | 32.69 | 526.09  | 558.78  | 33.31 | 525.47  | 558.78  | 33.04 | 525.74  |
| MW-10               | Monitoring Well          | 567.80                 | 34.89 | 532.91  | 567.80  | 41.37 | 526.43  | 567.80  | 42.44 | 525.36  | 567.80  | 41.74 | 526.06  |
| MW-11               | Monitoring Well          | 563.08                 | 23.45 | 539.63  | 563.08  | 28.13 | 534.95  | 563.08  | 27.55 | 535.53  | 563.08  | 29.55 | 533.53  |
| MW-12               | Monitoring Well          | 535.93                 | 31.68 | 504.25  | 535.93  | 34.71 | 501.22  | 535.93  | 37.04 | 498.89  | 535.93  | 36.72 | 499.21  |
| MW-14               | Monitoring Well          | 519.54                 | 30.71 | 488.83  | 519.54  | 34.00 | 485.54  | 519.54  | 34.31 | 485.23  | 519.54  | 35.65 | 483.89  |
| MW-15               | Monitoring Well          | 523.95                 | 60.90 | 463.05  | 523.95  | 61.20 | 462.75  | 523.95  | 61.89 | 462.06  | 523.95  | 61.95 | 462.00  |
| MW-16D              | Monitoring Well          | 516.73                 | -7.30 | 524.03A | 516.73  | -1.78 | 518.51A | 516.73  | -1.50 | 518.23A | 516.73  | -2.03 | 518.23A |
| MW-16S              | Monitoring Well          | NM                     | NM    | NM      | 516.60  | 4.00  | 512.60  | 516.60  | 4.53  | 512.07  | 516.60  | 4.11  | 512.49  |
| MW-17               | Monitoring Well          | 456.86                 | 12.73 | 444.13  | 456.86  | 15.11 | 441.75  | 456.86  | 16.40 | 440.46  | 456.86  | 16.17 | 440.69  |
| MW-18D              | Monitoring Well          | 464.52                 | -8.72 | 473.24A | 464.52  | -6.04 | 470.56A | 464.52  | -5.36 | 469.88A | 464.52  | -5.06 | 469.88A |
| MW-18S              | Monitoring Well          | 464.52                 | -4.76 | 469.28A | 464.52  | -3.12 | 467.64A | 464.52  | -3.75 | 468.27A | 464.52  | -3.68 | 468.27A |
| MW-19               | Monitoring Well          | 427.36                 | 21.69 | 405.67  | 427.36  | 23.61 | 403.75  | 427.36  | 25.52 | 401.84  | 427.36  | 24.27 | 403.09  |
| MW-20D              | Monitoring Well          | 573.85                 | 24.87 | 548.98  | 573.85  | 34.99 | 538.86  | 573.85  | 36.01 | 537.84  | 573.85  | 35.52 | 538.33  |
| MW-20M              | Monitoring Well          | 574.19                 | 36.87 | 537.32  | 574.19  | 44.32 | 529.87  | 574.19  | 45.31 | 528.88  | 574.19  | 44.71 | 529.48  |
| MW-20S              | Monitoring Well          | 574.05                 | 37.02 | 537.03  | 574.05  | 44.73 | 529.32  | 574.05  | 45.51 | 528.54  | 574.05  | 44.83 | 529.22  |
| MW-22               | Monitoring Well          | 447.57                 | 57.23 | 390.34  | 447.57  | 65.07 | 382.50  | 447.57  | 69.90 | 377.67  | 447.57  | 68.72 | 378.85  |
| MW-26               | Monitoring Well          | 379.44                 | 22.91 | 356.53  | 379.44  | 28.19 | 351.25  | 379.44  | 27.99 | 351.45  | 379.44  | 29.90 | 349.54  |
| MW-28               | Monitoring Well          | 366.78                 | 25.56 | 341.22  | 366.78  | 25.25 | 341.53  | 366.78  | 23.20 | 343.58  | 366.78  | 24.71 | 342.07  |
| MW-30               | Monitoring Well          | 362.26                 | 11.03 | 351.23  | 362.26  | 16.31 | 345.95  | 362.26  | 15.32 | 346.94  | 362.26  | 16.78 | 345.48  |
| MW-31D              | Monitoring Well          | 369.30                 | 15.31 | 353.99  | 369.30  | 20.51 | 348.79  | 369.30  | 21.11 | 348.19  | 369.30  | 21.57 | 347.73  |
| MW-31S              | Monitoring Well          | 369.28                 | 15.35 | 353.93  | 369.28  | 20.41 | 348.87  | 369.28  | 21.09 | 348.19  | 369.28  | 21.53 | 347.75  |
| MW-32D              | Monitoring Well          | 366.65                 | 21.34 | 345.31  | 366.65  | 25.00 | 341.65  | 366.65  | 23.00 | 343.65  | 366.65  | 24.47 | 342.18  |
| MW-32S              | Monitoring Well          | 366.62                 | 21.41 | 345.21  | 366.62  | 25.10 | 341.52  | 366.62  | 23.06 | 343.56  | 366.62  | 24.59 | 342.03  |
| MW-36D              | Monitoring Well          | 370.96                 | 21.91 | 349.05  | 370.96  | 26.51 | 344.45  | 370.96  | 26.05 | 344.91  | 370.96  | 26.75 | 344.21  |
| MW-36S              | Monitoring Well          | 370.95                 | 21.38 | 349.57  | 370.95  | 26.16 | 344.79  | 370.95  | 26.14 | 344.81  | 370.95  | 26.74 | 344.21  |
| MW-37D              | Monitoring Well          | 359.11                 | 15.66 | 343.45  | 359.11  | 18.48 | 340.63  | 359.11  | 16.98 | 342.13  | 359.11  | 17.95 | 341.16  |
| MW-37S              | Monitoring Well          | 359.13                 | 15.90 | 343.23  | 359.13  | 18.55 | 340.58  | 359.13  | 17.07 | 342.06  | 359.13  | 17.93 | 341.20  |
| MW-38D              | Monitoring Well          | 358.62                 | 14.84 | 343.78  | 358.62  | 17.93 | 340.69  | 358.62  | 16.63 | 341.99  | 358.62  | 17.85 | 340.77  |
| MW-39D              | Monitoring Well          | 360.21                 | 17.29 | 342.92  | 360.21  | 20.10 | 340.11  | 360.21  | 19.48 | 340.73  | 360.21  | 20.19 | 340.02  |

**TABLE 2.1-1**  
**Site-Wide Water Level and Elevation Data (2021-2024)**  
**Former York Naval Ordnance Plant - York, PA**

| Well Identification | Well Type       | Site-Wide Water Levels |       |         |         |       |         |         |       |         |         |       |         |
|---------------------|-----------------|------------------------|-------|---------|---------|-------|---------|---------|-------|---------|---------|-------|---------|
|                     |                 | 9/21/21                |       |         | 9/22/22 |       |         | 9/26/23 |       |         | 9/24/24 |       |         |
|                     |                 | MRP                    | DTW   | WL Elev | MRP     | DTW   | WL Elev | MRP     | DTW   | WL Elev | MRP     | DTW   | WL Elev |
| MW-39S              | Monitoring Well | 360.14                 | 17.20 | 342.94  | 360.14  | 20.02 | 340.12  | 360.14  | 20.69 | 339.45  | 360.14  | 20.17 | 339.97  |
| MW-40D              | Monitoring Well | 374.65                 | 28.84 | 345.81  | 374.65  | 32.82 | 341.83  | 374.65  | 30.26 | 344.39  | 374.65  | 31.72 | 342.93  |
| MW-40S              | Monitoring Well | 374.69                 | 28.75 | 345.94  | 374.69  | 32.77 | 341.92  | 374.69  | 29.94 | 344.75  | 374.69  | 31.56 | 343.13  |
| MW-43D              | Monitoring Well | 380.08                 | 30.16 | 349.92  | 380.08  | 36.72 | 343.36  | 380.08  | 35.62 | 344.46  | 380.08  | 36.77 | 343.31  |
| MW-43S              | Monitoring Well | 379.76                 | 29.23 | 350.53  | 379.76  | 36.54 | 343.22  | 379.76  | 36.11 | 343.65  | 379.76  | 36.82 | 342.94  |
| MW-45               | Monitoring Well | 360.57                 | 15.14 | 345.43  | 360.57  | 18.90 | 341.67  | 360.57  | 16.74 | 343.83  | 360.57  | 18.32 | 342.25  |
| MW-46               | Monitoring Well | 360.24                 | 15.12 | 345.12  | 360.24  | 18.83 | 341.41  | 360.24  | 16.59 | 343.65  | 360.24  | 18.18 | 342.06  |
| MW-47               | Monitoring Well | 360.45                 | 15.11 | 345.34  | 360.45  | 18.88 | 341.57  | 360.45  | 17.19 | 343.26  | 360.45  | 19.06 | 341.39  |
| MW-49D              | Monitoring Well | 360.45                 | 13.34 | 347.11  | 360.45  | 17.64 | 342.81  | 360.45  | 16.35 | 344.10  | 360.45  | 17.68 | 342.77  |
| MW-49S              | Monitoring Well | 360.44                 | 13.37 | 347.07  | 360.44  | 17.56 | 342.88  | 360.44  | 16.33 | 344.11  | 360.44  | 17.73 | 342.71  |
| MW-50D              | Monitoring Well | 363.36                 | 19.19 | 344.17  | 363.36  | 22.42 | 340.94  | 363.36  | 19.56 | 343.80  | 363.36  | 21.95 | 341.41  |
| MW-50S              | Monitoring Well | 363.42                 | 15.96 | 347.46  | 363.42  | 21.62 | 341.80  | 363.42  | 21.05 | 342.37  | 363.42  | 22.22 | 341.20  |
| MW-51D              | Monitoring Well | 363.11                 | 19.63 | 343.48  | 363.11  | 21.78 | 341.33  | 363.11  | 22.22 | 340.89  | 363.11  | 22.18 | 340.93  |
| MW-51S              | Monitoring Well | 363.20                 | 19.58 | 343.62  | 363.20  | 22.76 | 340.44  | 363.20  | 21.79 | 341.41  | 363.20  | 22.88 | 340.32  |
| MW-57               | Monitoring Well | 362.30                 | 15.98 | 346.32  | 362.30  | 20.21 | 342.09  | 362.30  | 17.54 | 344.76  | 362.30  | 19.71 | 342.59  |
| MW-64D              | Monitoring Well | 416.43                 | 58.69 | 357.74  | 416.43  | 64.86 | 351.57  | 416.43  | 64.92 | 351.51  | 416.43  | 65.81 | 350.62  |
| MW-64S              | Monitoring Well | 416.34                 | 42.19 | 374.15  | 416.34  | 41.06 | 375.28  | DRY     | DRY   | DRY     | 416.34  | 40.50 | 375.84  |
| MW-65D              | Monitoring Well | 546.80                 | 47.42 | 499.38  | 546.80  | 49.24 | 497.56  | 546.80  | 50.84 | 495.96  | 546.80  | 50.35 | 496.45  |
| MW-65S              | Monitoring Well | 546.82                 | 48.69 | 498.13  | 546.82  | 50.30 | 496.52  | 546.82  | 51.91 | 494.91  | 546.82  | 51.41 | 495.41  |
| MW-66D              | Monitoring Well | 506.92                 | 38.49 | 468.43  | 506.92  | 41.43 | 465.49  | 506.92  | 43.11 | 463.81  | 506.92  | 42.71 | 464.21  |
| MW-66S              | Monitoring Well | 506.73                 | 37.46 | 469.27  | 506.73  | 40.00 | 466.73  | 506.73  | 41.46 | 465.27  | 506.73  | 41.13 | 465.60  |
| MW-67D              | Monitoring Well | 446.26                 | -0.16 | 446.42A | 446.26  | 0.65  | 445.61  | 446.26  | 1.80  | 444.46  | 446.26  | 1.82  | 444.44  |
| MW-67S              | Monitoring Well | 446.26                 | 9.50  | 436.76  | 446.26  | 13.18 | 433.08  | 446.26  | 15.83 | 430.43  | 446.26  | 15.35 | 430.91  |
| MW-68               | Monitoring Well | 458.06                 | 5.60  | 452.46  | 458.06  | 7.48  | 450.58  | 458.06  | 8.40  | 449.66  | 458.06  | 8.10  | 449.96  |
| MW-69               | Monitoring Well | 411.90                 | 8.36  | 403.54  | 411.90  | 13.79 | 398.11  | 411.90  | 16.81 | 395.09  | 411.90  | 14.91 | 396.99  |
| MW-70D              | Monitoring Well | 416.31                 | 20.56 | 395.75  | 416.31  | 25.51 | 390.80  | 416.31  | 28.37 | 387.94  | 416.31  | 27.06 | 389.25  |
| MW-70S              | Monitoring Well | 416.21                 | 20.54 | 395.67  | 416.21  | 24.89 | 391.32  | 416.21  | 28.18 | 388.03  | 416.21  | 26.63 | 389.58  |
| MW-74D              | Monitoring Well | 359.79                 | 17.37 | 342.42  | 359.79  | 19.79 | 340.00  | 359.79  | 19.18 | 340.61  | 359.79  | 19.85 | 339.94  |
| MW-74S              | Monitoring Well | 359.85                 | 17.25 | 342.60  | 359.85  | 19.77 | 340.08  | 359.85  | 19.16 | 340.69  | 359.85  | 19.85 | 340.00  |
| MW-75D              | Monitoring Well | 359.85                 | 16.36 | 343.49  | 359.85  | 19.23 | 340.62  | 359.85  | 17.68 | 342.17  | 359.85  | 18.67 | 341.18  |
| MW-75S              | Monitoring Well | 359.03                 | 15.68 | 343.35  | 359.03  | 18.44 | 340.59  | 359.03  | 16.92 | 342.11  | 359.03  | 17.93 | 341.10  |
| MW-77               | Monitoring Well | 379.48                 | 22.51 | 356.97  | 379.48  | 26.77 | 352.71  | 379.48  | 26.75 | 352.73  | 379.48  | 28.91 | 350.57  |
| MW-78               | Monitoring Well | 375.32                 | 19.62 | 355.70  | 375.32  | 24.89 | 350.43  | 375.32  | 26.19 | 349.13  | 375.32  | 26.37 | 348.95  |
| MW-79               | Monitoring Well | 375.84                 | 20.97 | 354.87  | 375.84  | 26.03 | 349.81  | 375.84  | 25.86 | 349.98  | 375.84  | 27.07 | 348.77  |
| MW-80               | Monitoring Well | 370.29                 | 22.93 | 347.36  | 370.29  | 27.33 | 342.96  | 370.29  | 25.21 | 345.08  | AB      | AB    | AB      |
| MW-81D              | Monitoring Well | 366.92                 | 20.98 | 345.94  | 366.92  | 24.96 | 341.96  | 366.92  | 23.11 | 343.81  | 366.92  | 24.65 | 342.27  |
| MW-81S              | Monitoring Well | 366.90                 | 21.25 | 345.65  | 366.90  | 25.16 | 341.74  | 366.90  | 23.18 | 343.72  | 366.90  | 24.72 | 342.18  |
| MW-82               | Monitoring Well | 382.18                 | 33.51 | 348.67  | 382.18  | 37.96 | 344.22  | 382.18  | 37.80 | 344.38  | 382.18  | 38.20 | 343.98  |
| MW-84               | Monitoring Well | 376.53                 | 21.63 | 354.90  | 376.53  | 26.91 | 349.62  | 376.53  | 27.51 | 349.02  | 376.53  | 28.02 | 348.51  |
| MW-85               | Monitoring Well | 371.54                 | 2.41  | 369.13  | 371.54  | 14.28 | 357.26  | 371.54  | 25.39 | 346.15  | 371.54  | 15.81 | 355.73  |
| MW-86D              | Monitoring Well | 406.56                 | 8.13  | 398.43  | 406.56  | 10.22 | 396.34  | AB      | AB    | AB      | AB      | AB    | AB      |
| MW-86S              | Monitoring Well | 406.50                 | 7.69  | 398.81  | 406.50  | 11.43 | 395.07  | AB      | AB    | AB      | AB      | AB    | AB      |
| MW-87               | Monitoring Well | 370.64                 | 23.38 | 347.26  | 370.64  | 27.81 | 342.83  | 370.64  | 25.90 | 344.74  | AB      | AB    | AB      |
| MW-88               | Monitoring Well | 367.93                 | 22.71 | 345.22  | 367.93  | 26.32 | 341.61  | 367.93  | 24.30 | 343.63  | 367.93  | 25.95 | 341.98  |
| MW-91               | Monitoring Well | 501.18                 | 69.06 | 432.12  | 501.18  | 59.83 | 441.35  | 501.18  | 62.78 | 438.40  | 501.18  | 62.38 | 438.80  |
| MW-92               | Monitoring Well | 476.87                 | 82.15 | 394.72  | 476.87  | 89.76 | 387.11  | 476.87  | 93.73 | 383.14  | 476.87  | 92.66 | 384.21  |
| MW-93D              | Monitoring Well | 360.14                 | 16.96 | 343.18  | 360.14  | 19.61 | 340.53  | 360.14  | 18.15 | 341.99  | 360.14  | 19.08 | 341.06  |
| MW-93S              | Monitoring Well | 360.76                 | 17.43 | 343.33  | 360.76  | 20.19 | 340.57  | 360.76  | 18.70 | 342.06  | 360.76  | 19.53 | 341.23  |
| MW-95               | Monitoring Well | 358.72                 | 15.97 | 342.75  | 358.72  | 18.64 | 340.08  | 358.72  | 18.07 | 340.65  | 358.72  | 18.82 | 339.90  |
| MW-96D              | Monitoring Well | 361.00                 | 18.26 | 342.74  | 361.00  | 20.95 | 340.05  | 361.00  | 23.30 | 337.70  | 361.00  | 21.07 | 339.93  |
| MW-96S              | Monitoring Well | 361.21                 | 18.45 | 342.76  | 361.21  | 21.20 | 340.01  | 361.21  | 18.50 | 342.71  | 361.21  | 21.26 | 339.95  |
| MW-97               | Monitoring Well | 357.39                 | 14.23 | 343.16  | 357.39  | 17.17 | 340.22  | 357.39  | 16.48 | 340.91  | 357.39  | 17.32 | 340.07  |
| MW-98D              | Monitoring Well | 361.41                 | 20.40 | 341.01  | 361.41  | 21.77 | 339.64  | 361.41  | 21.29 | 340.12  | 361.41  | 21.65 | 339.76  |
| MW-98I              | Monitoring Well | 360.78                 | 20.96 | 339.82  | 360.78  | 22.14 | 338.64  | 360.78  | 21.62 | 339.16  | 360.78  | 22.08 | 338.70  |
| MW-98S              | Monitoring Well | 360.77                 | 20.46 | 340.31  | 360.77  | 21.92 | 338.85  | 360.77  | 21.39 | 339.38  | 360.77  | 21.91 | 338.86  |
| MW-99D              | Monitoring Well | 359.91                 | 19.36 | 340.55  | 359.91  | 20.69 | 339.22  | 359.91  | 20.15 | 339.76  | 359.91  | 20.69 | 339.22  |
| MW-99S              | Monitoring Well | 360.37                 | 19.81 | 340.56  | 360.37  | 21.17 | 339.20  | 360.37  | 20.63 | 339.74  | 360.37  | 21.16 | 339.21  |

**TABLE 2.1-1**  
**Site-Wide Water Level and Elevation Data (2021-2024)**  
**Former York Naval Ordnance Plant - York, PA**

| Well Identification | Well Type                | Site-Wide Water Levels |       |         |         |       |         |         |       |         |         |       |         |
|---------------------|--------------------------|------------------------|-------|---------|---------|-------|---------|---------|-------|---------|---------|-------|---------|
|                     |                          | 9/21/21                |       |         | 9/22/22 |       |         | 9/26/23 |       |         | 9/24/24 |       |         |
|                     |                          | MRP                    | DTW   | WL Elev | MRP     | DTW   | WL Elev | MRP     | DTW   | WL Elev | MRP     | DTW   | WL Elev |
| MW-100D             | Monitoring Well          | 362.14                 | 21.14 | 341.00  | 362.14  | 22.73 | 339.41  | 362.14  | 22.21 | 339.93  | 362.14  | 22.40 | 339.74  |
| MW-100I             | Monitoring Well          | 361.81                 | 20.90 | 340.91  | 361.81  | 22.40 | 339.41  | 361.81  | 21.80 | 340.01  | 361.81  | 22.72 | 339.09  |
| MW-100S             | Monitoring Well          | 362.28                 | 21.31 | 340.97  | 362.28  | 22.85 | 339.43  | 362.28  | 22.27 | 340.01  | 362.28  | 22.86 | 339.42  |
| MW-101D             | Monitoring Well          | 356.22                 | 16.01 | 340.21  | 356.22  | 17.03 | 339.19  | 356.22  | 17.02 | 339.20  | 356.22  | 18.98 | 337.24  |
| MW-101S             | Monitoring Well          | 356.54                 | 16.37 | 340.17  | 356.54  | 17.47 | 339.07  | 356.54  | 16.90 | 339.64  | 356.54  | 17.37 | 339.17  |
| MW-102D             | Monitoring Well          | 405.23                 | 9.84  | 395.39  | 405.23  | 14.76 | 390.47  | 405.23  | 17.67 | 387.56  | 405.23  | 16.40 | 388.83  |
| MW-102S             | Monitoring Well          | 405.41                 | 35.92 | 369.49  | 405.41  | 43.07 | 362.34  | 405.41  | 46.46 | 358.95  | 405.41  | 45.27 | 360.14  |
| MW-103D             | Monitoring Well          | 401.61                 | 17.25 | 384.36  | 401.61  | 21.22 | 380.39  | 401.61  | 24.02 | 377.59  | 401.61  | 20.60 | 381.01  |
| MW-103S             | Monitoring Well          | 402.00                 | 15.12 | 386.88  | 402.00  | 18.82 | 383.18  | 402.00  | 21.71 | 380.29  | 402.00  | 22.97 | 379.03  |
| MW-105              | Monitoring Well          | 362.05                 | 19.28 | 342.77  | 362.05  | 22.03 | 340.02  | 362.05  | 21.34 | 340.71  | 362.05  | 22.10 | 339.95  |
| MW-106              | Monitoring Well          | 360.15                 | 17.00 | 343.15  | 360.15  | 20.02 | 340.13  | 360.15  | 19.21 | 340.94  | 360.15  | 20.02 | 340.13  |
| MW-107              | Monitoring Well          | 363.56                 | 20.54 | 343.02  | 363.56  | 23.04 | 340.52  | 363.56  | 21.60 | 341.96  | 363.56  | 22.53 | 341.03  |
| MW-108D             | Monitoring Well          | 426.35                 | 13.74 | 412.61  | 426.35  | 20.29 | 406.06  | 426.35  | 28.52 | 397.83  | 426.35  | 27.18 | 399.17  |
| MW-108S             | Monitoring Well          | 425.46                 | 18.30 | 407.16  | 425.46  | 27.61 | 397.85  | 425.46  | 43.30 | 382.16  | 425.46  | 39.79 | 385.67  |
| MW-109D             | Monitoring Well          | 389.12                 | 31.61 | 357.51  | 389.12  | 37.21 | 351.91  | 389.12  | 36.22 | 352.90  | 389.12  | 37.33 | 351.79  |
| MW-109S             | Monitoring Well          | 388.39                 | 31.90 | 356.49  | 388.39  | 37.48 | 350.91  | 388.39  | 36.48 | 351.91  | 388.39  | 37.57 | 350.82  |
| MW-110              | Monitoring Well          | 378.36                 | 22.03 | 356.33  | 378.36  | 27.63 | 350.73  | 378.36  | 26.76 | 351.60  | 378.36  | 27.80 | 350.56  |
| MW-111              | Monitoring Well          | 433.63                 | 18.85 | 414.78  | 433.63  | 28.68 | 404.95  | 433.63  | 32.47 | 401.16  | 433.63  | 31.06 | 402.57  |
| MW-112              | Monitoring Well          | 393.52                 | 46.80 | 346.72  | 393.52  | 50.74 | 342.78  | 393.52  | 49.36 | 344.16  | 393.52  | 50.93 | 342.59  |
| MW-113              | Monitoring Well          | 371.02                 | 23.48 | 347.54  | 371.02  | 28.10 | 342.92  | 371.02  | 26.21 | 344.81  | 371.02  | 28.02 | 343.00  |
| MW-114              | Monitoring Well          | 366.88                 | 20.61 | 346.27  | 366.88  | 24.70 | 342.18  | 366.88  | 22.82 | 344.06  | 366.88  | 24.43 | 342.45  |
| MW-115              | Monitoring Well          | 373.30                 | 20.38 | 352.92  | 373.30  | 24.49 | 348.81  | 373.30  | 24.17 | 349.13  | 373.30  | 25.04 | 348.26  |
| MW-116              | Monitoring Well          | 364.59                 | 15.35 | 349.24  | 364.59  | 19.85 | 344.74  | 364.59  | 19.41 | 345.18  | 364.59  | 19.99 | 344.60  |
| MW-126              | Monitoring Well          | 371.42                 | 23.60 | 347.82  | 371.42  | 28.08 | 343.34  | 371.42  | 26.43 | 344.99  | 371.42  | 28.04 | 343.38  |
| MW-127              | Monitoring Well          | 371.55                 | 24.24 | 347.31  | 371.55  | 28.63 | 342.92  | 371.55  | 26.79 | 344.76  | 371.55  | 28.46 | 343.09  |
| MW-128              | Monitoring Well          | 370.58                 | 23.28 | 347.30  | 370.58  | 27.73 | 342.85  | 370.58  | 25.82 | 344.76  | 370.58  | 27.51 | 343.07  |
| MW-129              | Monitoring Well          | 361.20                 | 14.05 | 347.15  | 361.20  | 18.69 | 342.51  | 361.20  | 16.07 | 345.13  | 361.20  | 18.35 | 342.85  |
| MW-131              | Monitoring Well          | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| MW-134              | Monitoring Well          | 362.18                 | 15.80 | 346.38  | 362.18  | 19.91 | 342.27  | 362.18  | 18.00 | 344.18  | 362.18  | 19.66 | 342.52  |
| MW-136A             | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| MW-136A (270-348)   | Waterloo Monitoring Well | 359.78                 | 12.19 | 347.59  | 359.78  | 12.20 | 347.58  | 359.78  | 12.22 | 347.56  | 359.78  | 12.19 | 347.59  |
| MW-136A (356-356.5) | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| MW-136A (372.5-373) | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| MW-136A (434-434.5) | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| MW-136A (459.5-460) | Waterloo Monitoring Well | NM                     | NM    | NM      | 359.78  | 24.56 | 335.22  | 359.78  | 22.16 | 337.62  | NM      | NM    | NM      |
| MW-137A             | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| MW-137A (270-306)   | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| MW-137A (295.5-296) | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| MW-137A (343-343.5) | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| MW-137A (374.5-375) | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| MW-137A (420-420.5) | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| MW-137A (434.5-435) | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| MW-138A             | Monitoring Well          | 370.82                 | 23.22 | 347.60  | 370.82  | 26.10 | 344.72  | 370.82  | 25.85 | 344.97  | 370.82  | 26.1  | 344.72  |
| MW-139A             | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| MW-139A (270-285)   | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| MW-139A (305-305.5) | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| MW-139A (333.5-334) | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| MW-139A (365-365.5) | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| MW-139A (421.5-422) | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | 360.84  | 11.40 | 349.44  |
| MW-139A (454-454.5) | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | 360.84  | 8.62  | 352.22  |
| MW-140A             | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| MW-140A (209.5-210) | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| MW-140A (285-285.5) | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| MW-140A (323.5-324) | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| MW-140A (372-372.5) | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| MW-140A (407.5-408) | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| MW-141A             | Monitoring Well          | 416.96                 | 42.19 | 374.77  | 416.96  | 48.31 | 368.65  | 416.96  | 53.26 | 363.70  | 416.96  | 52.77 | 364.19  |

**TABLE 2.1-1**  
**Site-Wide Water Level and Elevation Data (2021-2024)**  
**Former York Naval Ordnance Plant - York, PA**

| Well Identification | Well Type                | Site-Wide Water Levels |       |         |         |       |         |         |       |         |         |       |         |
|---------------------|--------------------------|------------------------|-------|---------|---------|-------|---------|---------|-------|---------|---------|-------|---------|
|                     |                          | 9/21/21                |       |         | 9/22/22 |       |         | 9/26/23 |       |         | 9/24/24 |       |         |
|                     |                          | MRP                    | DTW   | WL Elev | MRP     | DTW   | WL Elev | MRP     | DTW   | WL Elev | MRP     | DTW   | WL Elev |
| MW-142D             | Monitoring Well          | 437.78                 | 12.84 | 424.94  | 437.78  | 16.37 | 421.41  | 437.78  | 16.06 | 421.72  | 437.78  | 16.19 | 421.59  |
| MW-142S             | Monitoring Well          | 437.44                 | 1.42  | 436.02  | 437.44  | 3.84  | 433.60  | 437.44  | 3.41  | 434.03  | 437.44  | 4.00  | 433.44  |
| MW-143D             | Monitoring Well          | 403.71                 | 5.07  | 398.64  | 403.71  | 11.53 | 392.18  | 403.71  | 11.31 | 392.40  | 403.71  | 11.30 | 392.41  |
| MW-143S             | Monitoring Well          | 403.56                 | 29.28 | 374.28  | 403.56  | 38.20 | 365.36  | 403.56  | 40.94 | 362.62  | 403.56  | 39.22 | 364.34  |
| MW-144              | Monitoring Well          | 361.52                 | 20.98 | 340.54  | 361.52  | 22.40 | 339.12  | 361.52  | 21.82 | 339.70  | 361.52  | 22.34 | 339.18  |
| MW-145A             | Monitoring Well          | 362.44                 | 21.50 | 340.94  | 362.44  | 22.92 | 339.52  | 362.44  | 22.38 | 340.06  | 362.44  | 22.93 | 339.51  |
| MW-146              | Monitoring Well          | 362.39                 | 21.31 | 341.08  | 362.39  | 22.76 | 339.63  | 362.39  | 22.19 | 340.20  | 362.39  | 22.74 | 339.65  |
| MW-147A             | Monitoring Well          | 361.25                 | 19.84 | 341.41  | 361.25  | 21.52 | 339.73  | 361.25  | 20.91 | 340.34  | 361.25  | 21.47 | 339.78  |
| MW-148A (72.5-73)   | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| MW-148A (136-136.5) | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| MW-148A (218-218.5) | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| MW-150              | Monitoring Well          | 366.80                 | 9.96  | 356.84  | 366.80  | 12.68 | 354.12  | 366.80  | 15.86 | 350.94  | 366.80  | 14.35 | 352.45  |
| MW-151              | Monitoring Well          | 374.11                 | 21.52 | 352.59  | 374.11  | 22.76 | 351.35  | 374.11  | 25.65 | 348.46  | 374.11  | 28.06 | 346.05  |
| MW-152 (0-10)       | Waterloo Monitoring Well | NM                     | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| MW-152 (23-23.5)    | Waterloo Monitoring Well | 358.92                 | 13.69 | 345.23  | 358.92  | 14.41 | 344.51  | 358.92  | 14.00 | 344.92  | 358.92  | 14.29 | 344.63  |
| MW-152 (137.5-138)  | Waterloo Monitoring Well | 358.92                 | 13.97 | 344.95  | 358.92  | 16.67 | 342.25  | 358.92  | 14.56 | 344.36  | 358.92  | 11.16 | 347.76  |
| MW-155              | Monitoring Well          | 359.92                 | 18.66 | 341.26  | 359.92  | 20.22 | 339.70  | 359.92  | 19.61 | 340.31  | 359.92  | 20.16 | 339.76  |
| MW-156              | Monitoring Well          | 353.53                 | 11.69 | 341.84  | 353.53  | 13.52 | 340.01  | 353.53  | 12.41 | 341.12  | 353.53  | 13.27 | 340.26  |
| MW-161              | Monitoring Well          | DRY                    | DRY   | DRY     | 415.92  | 64.40 | 351.52  | 415.92  | 64.37 | 351.55  | 415.92  | 65.22 | 350.70  |
| MW-162R             | Monitoring Well          | 415.76                 | 62.84 | 352.92  | 415.76  | 70.51 | 345.25  | 415.76  | 71.66 | 344.10  | 415.76  | 71.20 | 344.56  |
| MW-163              | Monitoring Well          | 419.41                 | 31.71 | 387.70  | 419.41  | 38.92 | 380.49  | 419.41  | 43.94 | 375.47  | 419.41  | 42.32 | 377.09  |
| MW-164              | Monitoring Well          | 424.50                 | 36.90 | 387.60  | 424.50  | 44.69 | 379.81  | 424.50  | 49.25 | 375.25  | 424.50  | 48.47 | 376.03  |
| MW-165              | Monitoring Well          | 419.41                 | 38.73 | 380.68  | 419.41  | 48.30 | 371.11  | 419.41  | 50.69 | 368.72  | 419.41  | 50.58 | 368.83  |
| MW-166              | Monitoring Well          | 402.03                 | 35.23 | 366.80  | 402.03  | 43.78 | 358.25  | 402.03  | 46.19 | 355.84  | 402.03  | 45.00 | 357.03  |
| MW-167              | Monitoring Well          | 399.07                 | 20.04 | 379.03  | 399.07  | 38.04 | 361.03  | 399.07  | 39.72 | 359.35  | 399.07  | 38.49 | 360.58  |
| MW-168              | Monitoring Well          | 395.19                 | 14.08 | 381.11  | 395.19  | 24.00 | 371.19  | 395.19  | 24.90 | 370.29  | 395.19  | 25.63 | 369.56  |
| MW-169              | Monitoring Well          | 389.43                 | 20.72 | 368.71  | 389.43  | 34.50 | 354.93  | 389.43  | 35.57 | 353.86  | 389.43  | 33.93 | 355.50  |
| MW-170              | Monitoring Well          | 385.60                 | 16.08 | 369.52  | 385.60  | 29.84 | 355.76  | 385.60  | 30.51 | 355.09  | 385.60  | 29.97 | 355.63  |
| MW-171              | Monitoring Well          | 386.75                 | 30.14 | 356.61  | 386.75  | 35.86 | 350.89  | 386.75  | 35.10 | 351.65  | 386.75  | 36.17 | 350.58  |
| MW-172              | Monitoring Well          | 385.03                 | 22.52 | 362.51  | 385.03  | 32.38 | 352.65  | 385.03  | 31.63 | 353.40  | NM      | NM    | NM      |
| MW-173              | Monitoring Well          | 381.57                 | 13.47 | 368.10  | 381.57  | 23.74 | 357.83  | 381.57  | 26.22 | 355.35  | 381.57  | 25.47 | 356.10  |
| MW-174              | Monitoring Well          | 378.31                 | 21.57 | 356.74  | 378.31  | 27.46 | 350.85  | 378.31  | 27.71 | 350.60  | 378.31  | 27.98 | 350.33  |
| MW-175              | Monitoring Well          | 376.18                 | 20.48 | 355.70  | 376.18  | 26.53 | 349.65  | 376.18  | 24.76 | 351.42  | 376.18  | 26.41 | 349.77  |
| MW-176              | Monitoring Well          | DRY                    | DRY   | DRY     | DRY     | DRY   | DRY     | DRY     | DRY   | DRY     | DRY     | DRY   | DRY     |
| MW-177R             | Monitoring Well          | 415.33                 | 58.25 | 357.08  | 415.33  | 65.91 | 349.42  | 415.33  | 65.96 | 349.37  | 415.33  | 65.93 | 349.40  |
| MW-178D             | Monitoring Well          | 414.81                 | 81.92 | 332.89  | 414.81  | 83.30 | 331.51  | 414.81  | 83.78 | 331.03  | 414.81  | 83.41 | 331.40  |
| MW-178S             | Monitoring Well          | DRY                    | DRY   | DRY     | DRY     | DRY   | DRY     | DRY     | DRY   | DRY     | DRY     | DRY   | DRY     |
| MW-179              | Monitoring Well          | 414.74                 | 60.85 | 353.89  | DRY     | DRY   | DRY     | DRY     | DRY   | DRY     | DRY     | DRY   | DRY     |
| MW-180              | Monitoring Well          | 414.36                 | 61.72 | 352.64  | DRY     | DRY   | DRY     | DRY     | DRY   | DRY     | DRY     | DRY   | DRY     |
| MW-181D             | Monitoring Well          | 414.91                 | 52.77 | 362.14  | 414.91  | 58.65 | 356.26  | 414.91  | 59.57 | 355.34  | 414.91  | 59.80 | 355.11  |
| MW-181S             | Monitoring Well          | 414.86                 | 65.55 | 349.31  | 414.86  | 70.70 | 344.16  | DRY     | DRY   | DRY     | DRY     | DRY   | DRY     |
| MW-182              | Monitoring Well          | 416.41                 | 45.04 | 371.37  | DRY     | DRY   | DRY     | DRY     | DRY   | DRY     | DRY     | DRY   | DRY     |
| MW-183              | Monitoring Well          | 417.14                 | 42.79 | 374.35  | 417.14  | 46.83 | 370.31  | DRY     | DRY   | DRY     | DRY     | DRY   | DRY     |
| MW-184D             | Monitoring Well          | 416.29                 | 44.28 | 372.01  | 416.29  | 49.21 | 367.08  | 416.29  | 51.42 | 364.87  | 416.29  | 58.89 | 357.40  |
| MW-184S             | Monitoring Well          | 416.19                 | 46.37 | 369.82  | 416.19  | 50.80 | 365.39  | 416.19  | 52.77 | 363.42  | 416.19  | 52.62 | 363.57  |
| MW-185              | Monitoring Well          | 514.13                 | 66.55 | 447.58  | 514.13  | 70.68 | 443.45  | 514.13  | 71.66 | 442.47  | 514.13  | 71.64 | 442.49  |
| MW-186              | Monitoring Well          | 375.11                 | 13.97 | 361.14  | 375.11  | 18.99 | 356.12  | 375.11  | 19.65 | 355.46  | 375.11  | 19.05 | 356.06  |
| Cole B              | Monitoring Well          | 363.75                 | 10.62 | 353.13  | 363.75  | 15.07 | 348.68  | 363.75  | 14.28 | 349.47  | 363.75  | 15.19 | 348.56  |
| Cole D              | Monitoring Well          | 370.15                 | 12.00 | 358.15  | 370.15  | 20.50 | 349.65  | 370.15  | 18.87 | 351.28  | 370.15  | 20.70 | 349.45  |
| Cole E deep         | Monitoring Well          | 369.17                 | 14.29 | 354.88  | 369.17  | 20.23 | 348.94  | 369.17  | 18.85 | 350.32  | 369.17  | 19.99 | 349.18  |
| Cole E shallow      | Monitoring Well          | 369.54                 | 14.68 | 354.86  | 369.54  | 20.66 | 348.88  | 369.54  | 19.30 | 350.24  | 369.54  | 20.40 | 349.14  |
| Cole F              | Monitoring Well          | 370.39                 | 15.75 | 354.64  | 370.39  | 21.41 | 348.98  | 370.39  | 20.18 | 350.21  | 370.39  | 21.33 | 349.06  |
| Cole (Flush)        | Monitoring Well          | 361.92                 | 9.12  | 352.80  | 361.92  | 13.79 | 348.13  | 361.92  | 14.10 | 347.82  | 361.54  | 13.85 | 347.69  |
| GM-1D               | Monitoring Well          | 366.11                 | 12.73 | 353.38  | 366.11  | 17.58 | 348.53  | 366.11  | 16.67 | 349.44  | 366.11  | 17.62 | 348.49  |
| MW-4 (Cole)         | Monitoring Well          | 367.21                 | 13.98 | 353.23  | 367.21  | 18.95 | 348.26  | 367.21  | 17.98 | 349.23  | 367.21  | 18.95 | 348.26  |
| Cole Steel MW-12    | Monitoring Well          | NM                     | NM    | NM      | NM      | NM    | NM      | 360.79  | 12.49 | 348.30  | 360.79  | 13.30 | 347.49  |
| Ru-MW-1             | Monitoring Well          | 389.05                 | 29.02 | 360.03  | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |

**TABLE 2.1-1**  
**Site-Wide Water Level and Elevation Data (2021-2024)**  
**Former York Naval Ordnance Plant - York, PA**

| Well Identification | Well Type                   | Site-Wide Water Levels                                                                                                                                                                                                                                                                                                                         |       |         |         |       |         |         |       |         |         |       |         |
|---------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------|---------|-------|---------|---------|-------|---------|---------|-------|---------|
|                     |                             | 9/21/21                                                                                                                                                                                                                                                                                                                                        |       |         | 9/22/22 |       |         | 9/26/23 |       |         | 9/24/24 |       |         |
|                     |                             | MRP                                                                                                                                                                                                                                                                                                                                            | DTW   | WL Elev | MRP     | DTW   | WL Elev | MRP     | DTW   | WL Elev | MRP     | DTW   | WL Elev |
| Ru-MW-2             | Monitoring Well             | 390.72                                                                                                                                                                                                                                                                                                                                         | 34.29 | 356.43  | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| Ru-MW-3             | Monitoring Well             | 395.23                                                                                                                                                                                                                                                                                                                                         | 38.83 | 356.40  | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| Ru-MW-4R            | Monitoring Well             | 394.07                                                                                                                                                                                                                                                                                                                                         | 36.61 | 357.46  | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| Ru-MW-5             | Monitoring Well             | NM                                                                                                                                                                                                                                                                                                                                             | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| Ru-MW-6             | Monitoring Well             | NM                                                                                                                                                                                                                                                                                                                                             | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| Ru-MW-7             | Monitoring Well             | 386.34                                                                                                                                                                                                                                                                                                                                         | 29.94 | 356.40  | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| Ru-MW-8             | Monitoring Well             | NM                                                                                                                                                                                                                                                                                                                                             | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| Ru-MW-9             | Monitoring Well             | NM                                                                                                                                                                                                                                                                                                                                             | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| Ru-MW-10            | Monitoring Well             | 390.15                                                                                                                                                                                                                                                                                                                                         | 33.39 | 356.76  | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| Ru-MW-100           | Monitoring Well             | NM                                                                                                                                                                                                                                                                                                                                             | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| Ru-MW-101           | Monitoring Well             | 390.60                                                                                                                                                                                                                                                                                                                                         | 34.20 | 356.40  | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| Ru-MW-102           | Monitoring Well             | 393.87                                                                                                                                                                                                                                                                                                                                         | 37.46 | 356.41  | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| Ru-MW-103           | Monitoring Well             | 389.28                                                                                                                                                                                                                                                                                                                                         | 32.76 | 356.52  | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| Herman (S-7)        | Spring                      | NM                                                                                                                                                                                                                                                                                                                                             | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| TATE (S-6)          | Spring                      | NM                                                                                                                                                                                                                                                                                                                                             | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| CODORUS 1           | Bridge Surface Gaging Point | 379.69                                                                                                                                                                                                                                                                                                                                         | 40.80 | 338.89  | 379.69  | 39.28 | 340.41  | 379.69  | 40.60 | 339.09  | 379.69  | 40.75 | 338.94  |
| CODORUS 2           | Staff Gage                  | NM                                                                                                                                                                                                                                                                                                                                             | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| JOHNSON 1           | Surface Water               | 380.32                                                                                                                                                                                                                                                                                                                                         | 6.18  | 374.14  | 380.32  | 6.24  | 374.08  | 380.32  | 6.26  | 374.06  | 380.32  | 6.44  | 373.88  |
| JOHNSON 2           | Surface Water               | 376.79                                                                                                                                                                                                                                                                                                                                         | 5.28  | 371.51  | 376.79  | 6.04  | 370.75  | 376.79  | 5.47  | 371.32  | 376.79  | 5.50  | 371.29  |
| SCP MP-1 (High)     | Water Level Measuring Point | NM                                                                                                                                                                                                                                                                                                                                             | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| SCP MP-1 (Low)      | Water Level Measuring Point | NM                                                                                                                                                                                                                                                                                                                                             | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      | NM      | NM    | NM      |
| RW-2 (Flinchbaugh)  | Abandoned Residential Well  | AB                                                                                                                                                                                                                                                                                                                                             | AB    | AB      | AB      | AB    | AB      | AB      | AB    | AB      | AB      | AB    | AB      |
| RW-4 (Folk)         | Residential Well            | 575.93                                                                                                                                                                                                                                                                                                                                         | 33.32 | 542.61  | 575.93  | 41.33 | 534.60  | 575.93  | 42.31 | 533.62  | 575.93  | 41.44 | 534.49  |
| RW-5 (Giambolvo)    | Monitoring Well             | 375.54                                                                                                                                                                                                                                                                                                                                         | 29.32 | 346.22  | 375.54  | 32.91 | 342.63  | 375.54  | 30.15 | 345.39  | 375.93  | 32.05 | 343.88  |
| RW-6 (Kinsley Well) | Monitoring Well             | 465.83                                                                                                                                                                                                                                                                                                                                         | 71.36 | 394.47  | DRY     | DRY   | DRY     | DRY     | DRY   | DRY     | DRY     | DRY   | DRY     |
| WPL-SS-7            | Monitoring Well             | 357.78                                                                                                                                                                                                                                                                                                                                         | 13.36 | 344.42  | 357.78  | 16.61 | 341.17  | NM      | NM    | NM      | 357.78  | 15.90 | 341.88  |
| WPL-SS-8            | Monitoring Well             | 364.40                                                                                                                                                                                                                                                                                                                                         | 20.25 | 344.15  | 364.40  | 23.10 | 341.30  | 364.40  | 22.33 | 342.07  | 364.40  | 23.19 | 341.21  |
| <b>Notes:</b>       |                             | Gage measurements represent the water level on the gage<br>MRP = Measurement reference point elevation in feet above mean sea level (AMSL)<br>DTW = Depth to water measurement in feet<br>WL Elev = Water level elevation in feet above mean sea level (AMSL)<br>A = Artesian<br>AB = Abandoned<br>Dry = No water in well<br>NM = Not Measured |       |         |         |       |         |         |       |         |         |       |         |

TABLE 2.1-2  
Vertical Groundwater Gradient Data for September 24, 2024  
Former York Naval Ordnance Plant - York, PA

| Well Identification                    | Elevation<br>TOC<br>(Feet AMSL) | Open Interval<br>(Feet) | Mid-Point<br>Screened<br>Interval<br>(Feet) | Mid-Point<br>Elevation<br>(Feet AMSL) | Difference<br>Between Mid-<br>Points<br>(Feet) | Depth to<br>Water<br>(Feet btoc) | Water Level<br>Elevation<br>(Feet AMSL) | Difference Between<br>Water Level<br>Elevations<br>(Feet) | Vertical<br>Gradient<br>(Feet/Foot) |
|----------------------------------------|---------------------------------|-------------------------|---------------------------------------------|---------------------------------------|------------------------------------------------|----------------------------------|-----------------------------------------|-----------------------------------------------------------|-------------------------------------|
| Former Central Plant Area (CPA)        |                                 |                         |                                             |                                       |                                                |                                  |                                         |                                                           |                                     |
| MW-32S                                 | 366.62                          | 133-148                 | 140.50                                      | 226.12                                | -67.47                                         | 24.59                            | 342.03                                  | -0.15                                                     | 0.002                               |
| MW-32D                                 | 366.65                          | 196-220                 | 208.00                                      | 158.65                                |                                                | 24.47                            | 342.18                                  |                                                           |                                     |
| MW-49S                                 | 360.44                          | 134-158                 | 146.00                                      | 214.44                                | -64.49                                         | 17.73                            | 342.71                                  | -0.06                                                     | 0.001                               |
| MW-49D                                 | 360.45                          | 201-220                 | 210.50                                      | 149.95                                |                                                | 17.68                            | 342.77                                  |                                                           |                                     |
| MW-81S                                 | 366.90                          | 28-43                   | 35.50                                       | 331.40                                | -23.48                                         | 24.72                            | 342.18                                  | -0.09                                                     | 0.004                               |
| MW-81D                                 | 366.92                          | 52-66                   | 59.00                                       | 307.92                                |                                                | 24.65                            | 342.27                                  |                                                           |                                     |
| Codorus Creek Levee Area               |                                 |                         |                                             |                                       |                                                |                                  |                                         |                                                           |                                     |
| MW-98S                                 | 360.77                          | 58-68                   | 63.00                                       | 297.77                                | -38.49                                         | 21.91                            | 338.86                                  | 0.16                                                      | -0.004                              |
| MW-98I                                 | 360.78                          | 98-105                  | 101.50                                      | 259.28                                | -47.37                                         | 22.08                            | 338.70                                  | -1.06                                                     | 0.022                               |
| MW-98D                                 | 361.41                          | 128-171                 | 149.50                                      | 211.91                                |                                                | 21.65                            | 339.76                                  |                                                           |                                     |
| MW-99S                                 | 360.37                          | 57.8-74.3               | 66.05                                       | 294.32                                | -68.16                                         | 21.16                            | 339.21                                  | -0.01                                                     | 0.000                               |
| MW-99D                                 | 359.91                          | 125.5-142               | 133.75                                      | 226.16                                |                                                | 20.69                            | 339.22                                  |                                                           |                                     |
| MW-100S                                | 362.28                          | 45-51                   | 48.00                                       | 314.28                                | -15.47                                         | 22.86                            | 339.42                                  | 0.33                                                      | -0.021                              |
| MW-100I                                | 361.81                          | 60-66                   | 63.00                                       | 298.81                                | -40.17                                         | 22.72                            | 339.09                                  | -0.65                                                     | 0.016                               |
| MW-100D                                | 362.14                          | 93-114                  | 103.50                                      | 258.64                                |                                                | 22.40                            | 339.74                                  |                                                           |                                     |
| MW-101S                                | 356.54                          | 18-40                   | 29.00                                       | 327.54                                | -66.82                                         | 17.37                            | 339.17                                  | 1.93                                                      | -0.029                              |
| MW-101D                                | 356.22                          | 76-115                  | 95.50                                       | 260.72                                |                                                | 18.98                            | 337.24                                  |                                                           |                                     |
| Eastern Landfill Area                  |                                 |                         |                                             |                                       |                                                |                                  |                                         |                                                           |                                     |
| MW-65S                                 | 546.82                          | 71.3-86                 | 78.65                                       | 468.17                                | -17.37                                         | 51.41                            | 495.41                                  | -1.04                                                     | 0.060                               |
| MW-65D                                 | 546.80                          | 89-103                  | 96.00                                       | 450.80                                |                                                | 50.35                            | 496.45                                  |                                                           |                                     |
| MW-66S                                 | 506.73                          | 47.2-61.6               | 54.40                                       | 452.33                                | -36.11                                         | 41.13                            | 465.60                                  | 1.39                                                      | -0.038                              |
| MW-66D                                 | 506.92                          | 81.4-100                | 90.70                                       | 416.22                                |                                                | 42.71                            | 464.21                                  |                                                           |                                     |
| MW-67S                                 | 446.26                          | 12.8-31                 | 21.90                                       | 424.36                                | -42.60                                         | 15.35                            | 430.91                                  | -13.53                                                    | 0.318                               |
| MW-67D                                 | 446.26                          | 58-71                   | 64.50                                       | 381.76                                |                                                | 1.82                             | 444.44                                  |                                                           |                                     |
| Former North End of Test Track (NETT)  |                                 |                         |                                             |                                       |                                                |                                  |                                         |                                                           |                                     |
| MW-70S                                 | 416.21                          | 15.8-35                 | 25.40                                       | 390.81                                | -51.00                                         | 26.63                            | 389.58                                  | 0.33                                                      | -0.006                              |
| MW-70D                                 | 416.31                          | 68-85                   | 76.50                                       | 339.81                                |                                                | 27.06                            | 389.25                                  |                                                           |                                     |
| MW-102S                                | 405.41                          | 41-65                   | 53.00                                       | 352.41                                | -34.18                                         | 45.27                            | 360.14                                  | -28.69                                                    | 0.839                               |
| MW-102D                                | 405.23                          | 75-99                   | 87.00                                       | 318.23                                |                                                | 16.40                            | 388.83                                  |                                                           |                                     |
| MW-103S                                | 402.00                          | 62.3-87.5               | 74.90                                       | 327.10                                | -26.19                                         | 22.97                            | 379.03                                  | -1.98                                                     | 0.076                               |
| MW-103D                                | 401.61                          | 94.7-106.7              | 100.70                                      | 300.91                                |                                                | 20.60                            | 381.01                                  |                                                           |                                     |
| Former North Plant Area                |                                 |                         |                                             |                                       |                                                |                                  |                                         |                                                           |                                     |
| MW-31S                                 | 369.28                          | 12-36                   | 24.00                                       | 345.28                                | -49.48                                         | 21.53                            | 347.75                                  | 0.02                                                      | 0.000                               |
| MW-31D                                 | 369.30                          | 66-81                   | 73.50                                       | 295.80                                |                                                | 21.57                            | 347.73                                  |                                                           |                                     |
| MW-36S                                 | 370.95                          | 18-41                   | 29.50                                       | 341.45                                | -45.49                                         | 26.74                            | 344.21                                  | 0.00                                                      | 0.000                               |
| MW-36D                                 | 370.96                          | 67-83                   | 75.00                                       | 295.96                                |                                                | 26.75                            | 344.21                                  |                                                           |                                     |
| Northern Property Boundary Area (NPBA) |                                 |                         |                                             |                                       |                                                |                                  |                                         |                                                           |                                     |
| MW-16S                                 | 516.60                          | 98-110                  | 104.00                                      | 412.60                                | -91.37                                         | 4.11                             | 512.49                                  | -6.27                                                     | 0.069                               |
| MW-16D                                 | 516.73                          | 190-201                 | 195.50                                      | 321.23                                |                                                | -2.03                            | 518.76                                  |                                                           |                                     |
| MW-18S                                 | 464.52                          | 45-65                   | 55.00                                       | 409.52                                | -80.00                                         | -3.68                            | 468.20                                  | -1.38                                                     | 0.017                               |
| MW-18D                                 | 464.52                          | 130-140                 | 135.00                                      | 329.52                                |                                                | -5.06                            | 469.58                                  |                                                           |                                     |
| MW-20S                                 | 574.05                          | 28-61                   | 44.50                                       | 529.55                                | -33.86                                         | 44.83                            | 529.22                                  | -0.26                                                     | 0.008                               |
| MW-20M                                 | 574.19                          | 72-85                   | 78.50                                       | 495.69                                | -80.84                                         | 44.71                            | 529.48                                  | -8.85                                                     | 0.109                               |
| MW-20D                                 | 573.85                          | 153-165                 | 159.00                                      | 414.85                                |                                                | 35.52                            | 538.33                                  |                                                           |                                     |
| MW-142S                                | 437.44                          | 56-70                   | 63.00                                       | 374.44                                | -70.36                                         | 4.00                             | 433.44                                  | 11.85                                                     | -0.168                              |
| MW-142D                                | 437.78                          | 122-145.4               | 133.70                                      | 304.08                                |                                                | 16.19                            | 421.59                                  |                                                           |                                     |
| MW-143S                                | 403.56                          | 24-54.5                 | 39.25                                       | 364.31                                | -86.30                                         | 39.22                            | 364.34                                  | -28.07                                                    | 0.325                               |
| MW-143D                                | 403.71                          | 117.4-134               | 125.70                                      | 278.01                                |                                                | 11.30                            | 392.41                                  |                                                           |                                     |

TABLE 2.1-2  
Vertical Groundwater Gradient Data for September 24, 2024  
Former York Naval Ordnance Plant - York, PA

| Well Identification                                                                                                                                                                                                                                                                                                                                                                                                  | Elevation<br>TOC<br>(Feet AMSL) | Open Interval<br>(Feet) | Mid-Point<br>Screened<br>Interval<br>(Feet) | Mid-Point<br>Elevation<br>(Feet AMSL) | Difference<br>Between Mid-<br>Points<br>(Feet) | Depth to<br>Water<br>(Feet btoc) | Water Level<br>Elevation<br>(Feet AMSL) | Difference Between<br>Water Level<br>Elevations<br>(Feet) | Vertical<br>Gradient<br>(Feet/Foot) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------|---------------------------------------------|---------------------------------------|------------------------------------------------|----------------------------------|-----------------------------------------|-----------------------------------------------------------|-------------------------------------|
| South Plume Area (SPA)                                                                                                                                                                                                                                                                                                                                                                                               |                                 |                         |                                             |                                       |                                                |                                  |                                         |                                                           |                                     |
| MW-40S                                                                                                                                                                                                                                                                                                                                                                                                               | 374.69                          | 26-47                   | 36.50                                       | 338.19                                | -54.04                                         | 31.56                            | 343.13                                  | 0.20                                                      | -0.004                              |
| MW-40D                                                                                                                                                                                                                                                                                                                                                                                                               | 374.65                          | 78-103                  | 90.50                                       | 284.15                                |                                                | 31.72                            | 342.93                                  |                                                           |                                     |
| MW-43S                                                                                                                                                                                                                                                                                                                                                                                                               | 379.76                          | 19-48                   | 33.50                                       | 346.26                                | -51.68                                         | 36.82                            | 342.94                                  | -0.37                                                     | 0.007                               |
| MW-43D                                                                                                                                                                                                                                                                                                                                                                                                               | 380.08                          | 79-92                   | 85.50                                       | 294.58                                |                                                | 36.77                            | 343.31                                  |                                                           |                                     |
| MW-152S                                                                                                                                                                                                                                                                                                                                                                                                              | 358.92                          | 13-30.5                 | 21.75                                       | 337.17                                | -139.50                                        | 14.29                            | 344.63                                  | -3.13                                                     | 0.022                               |
| MW-152D                                                                                                                                                                                                                                                                                                                                                                                                              | 358.92                          | 122.5-200               | 161.25                                      | 197.67                                |                                                | 11.16                            | 347.76                                  |                                                           |                                     |
| Southern Property Boundary Area (SPBA)                                                                                                                                                                                                                                                                                                                                                                               |                                 |                         |                                             |                                       |                                                |                                  |                                         |                                                           |                                     |
| MW-64S                                                                                                                                                                                                                                                                                                                                                                                                               | 416.34                          | 33-42                   | 37.50                                       | 378.84                                | -34.91                                         | 40.50                            | 375.84                                  | 25.22                                                     | -0.722                              |
| MW-64D                                                                                                                                                                                                                                                                                                                                                                                                               | 416.43                          | 68-77                   | 72.50                                       | 343.93                                |                                                | 65.81                            | 350.62                                  |                                                           |                                     |
| MW-108S                                                                                                                                                                                                                                                                                                                                                                                                              | 425.46                          | 22.9-55.1               | 39.00                                       | 386.46                                | -70.61                                         | 39.79                            | 385.67                                  | -13.5                                                     | 0.191                               |
| MW-108D                                                                                                                                                                                                                                                                                                                                                                                                              | 426.35                          | 72-149                  | 110.50                                      | 315.85                                |                                                | 27.18                            | 399.17                                  |                                                           |                                     |
| MW-109S                                                                                                                                                                                                                                                                                                                                                                                                              | 388.39                          | 42.9-65                 | 53.95                                       | 334.44                                | -39.32                                         | 37.57                            | 350.82                                  | -0.97                                                     | 0.025                               |
| MW-109D                                                                                                                                                                                                                                                                                                                                                                                                              | 389.12                          | 88-100                  | 94.00                                       | 295.12                                |                                                | 37.33                            | 351.79                                  |                                                           |                                     |
| MW-178S                                                                                                                                                                                                                                                                                                                                                                                                              | 415.11                          | 72-84                   | 78.00                                       | 337.11                                | -17.30                                         | DRY                              | -                                       | N/A                                                       | N/A                                 |
| MW-178D                                                                                                                                                                                                                                                                                                                                                                                                              | 414.81                          | 90-100                  | 95.00                                       | 319.81                                |                                                | 83.41                            | 331.40                                  |                                                           |                                     |
| MW-181S                                                                                                                                                                                                                                                                                                                                                                                                              | 414.86                          | 61-71                   | 66.00                                       | 348.86                                | -30.45                                         | DRY                              | -                                       | N/A                                                       | N/A                                 |
| MW-181D                                                                                                                                                                                                                                                                                                                                                                                                              | 414.91                          | 93-100                  | 96.50                                       | 318.41                                |                                                | 59.80                            | 355.11                                  |                                                           |                                     |
| MW-184S                                                                                                                                                                                                                                                                                                                                                                                                              | 416.19                          | 51-59                   | 55.00                                       | 361.19                                | -14.90                                         | 52.62                            | 363.57                                  | 6.17                                                      | -0.414                              |
| MW-184D                                                                                                                                                                                                                                                                                                                                                                                                              | 416.29                          | 66-74                   | 70.00                                       | 346.29                                |                                                | 58.89                            | 357.40                                  |                                                           |                                     |
| Northern - West Parking Lot (WPL)                                                                                                                                                                                                                                                                                                                                                                                    |                                 |                         |                                             |                                       |                                                |                                  |                                         |                                                           |                                     |
| MW-39S                                                                                                                                                                                                                                                                                                                                                                                                               | 360.14                          | 3-30                    | 16.50                                       | 343.64                                | -59.93                                         | 20.17                            | 339.97                                  | -0.05                                                     | 0.001                               |
| MW-39D                                                                                                                                                                                                                                                                                                                                                                                                               | 360.21                          | 53-100                  | 76.50                                       | 283.71                                |                                                | 20.19                            | 340.02                                  |                                                           |                                     |
| MW-50S                                                                                                                                                                                                                                                                                                                                                                                                               | 363.42                          | 104-125                 | 114.50                                      | 248.92                                | -49.06                                         | 22.22                            | 341.20                                  | -0.21                                                     | 0.004                               |
| MW-50D                                                                                                                                                                                                                                                                                                                                                                                                               | 363.36                          | 157-170                 | 163.50                                      | 199.86                                |                                                | 21.95                            | 341.41                                  |                                                           |                                     |
| MW-51S                                                                                                                                                                                                                                                                                                                                                                                                               | 363.20                          | 34-51                   | 42.50                                       | 320.70                                | -61.59                                         | 22.88                            | 340.32                                  | -0.61                                                     | 0.010                               |
| MW-51D                                                                                                                                                                                                                                                                                                                                                                                                               | 363.11                          | 88-120                  | 104.00                                      | 259.11                                |                                                | 22.18                            | 340.93                                  |                                                           |                                     |
| MW-74S                                                                                                                                                                                                                                                                                                                                                                                                               | 359.85                          | 175-201                 | 188.00                                      | 171.85                                | -47.06                                         | 19.85                            | 340.00                                  | 0.06                                                      | -0.001                              |
| MW-74D                                                                                                                                                                                                                                                                                                                                                                                                               | 359.79                          | 220-250                 | 235.00                                      | 124.79                                |                                                | 19.85                            | 339.94                                  |                                                           |                                     |
| MW-96S                                                                                                                                                                                                                                                                                                                                                                                                               | 361.21                          | 27-39                   | 33.00                                       | 328.21                                | -48.46                                         | 21.26                            | 339.95                                  | 0.02                                                      | 0.000                               |
| MW-96D                                                                                                                                                                                                                                                                                                                                                                                                               | 361.00                          | 75-87.5                 | 81.25                                       | 279.75                                |                                                | 21.07                            | 339.93                                  |                                                           |                                     |
| Southern - West Parking Lot (WPL)                                                                                                                                                                                                                                                                                                                                                                                    |                                 |                         |                                             |                                       |                                                |                                  |                                         |                                                           |                                     |
| MW-37S                                                                                                                                                                                                                                                                                                                                                                                                               | 359.13                          | 11-33                   | 22.00                                       | 337.13                                | -111.02                                        | 17.93                            | 341.20                                  | 0.04                                                      | 0.000                               |
| MW-37D                                                                                                                                                                                                                                                                                                                                                                                                               | 359.11                          | 125-141                 | 133.00                                      | 226.11                                |                                                | 17.95                            | 341.16                                  |                                                           |                                     |
| MW-75S                                                                                                                                                                                                                                                                                                                                                                                                               | 359.03                          | 151-190                 | 170.50                                      | 188.53                                | -37.18                                         | 17.93                            | 341.10                                  | -0.08                                                     | 0.002                               |
| MW-75D                                                                                                                                                                                                                                                                                                                                                                                                               | 359.85                          | 200-217                 | 208.50                                      | 151.35                                |                                                | 18.67                            | 341.18                                  |                                                           |                                     |
| MW-93S                                                                                                                                                                                                                                                                                                                                                                                                               | 360.76                          | 24-45                   | 34.50                                       | 326.26                                | -113.47                                        | 19.53                            | 341.23                                  | 0.17                                                      | -0.001                              |
| MW-93D                                                                                                                                                                                                                                                                                                                                                                                                               | 360.14                          | 134.7-160               | 147.35                                      | 212.79                                |                                                | 19.08                            | 341.06                                  |                                                           |                                     |
| Notes:<br><br>A calculated negative vertical gradient value indicates a downward vertical gradient.<br>A calculated positive vertical gradient value indicates an upward vertical gradient.<br>Depth to water data collected on September 24, 2024.<br>AMSL = Above mean sea level<br>btoc = Below top of well casing<br>DRY = No water in well<br>- = Groundwater elevation not calculated<br>N/A = Not applicable. |                                 |                         |                                             |                                       |                                                |                                  |                                         |                                                           |                                     |



| TABLE 2.2-1<br>Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs) - Wells Outside Technical Impracticability (TI) Boundary<br>Former York Naval Ordnance Plant - York, PA |                             |                              |                        |                        |                        |                        |                        |                        |                        |                        |                         |                         |                         |                         |                         |                         |                          |                          |                          |                          |                          |                          |                            |                            |                             |                            |                           |                           |                             |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|---------------------------|---------------------------|-----------------------------|------|
| Location/Identification<br>Depth (feet)<br>Sample Date                                                                                                                                         | PADEP<br>MSC UA R<br>(µg/L) | PADEP<br>MSC UA NR<br>(µg/L) | USEPA<br>MCL<br>(µg/L) | USEPA<br>RSL<br>(µg/L) | MW-2<br>9/25/19<br>(1) | MW-2<br>10/7/20<br>(1) | MW-2<br>10/1/21<br>(1) | MW-2<br>10/4/22<br>(1) | MW-2<br>10/3/23<br>(1) | MW-2<br>10/1/24<br>(1) | MW-14<br>9/27/19<br>(1) | MW-14<br>9/29/20<br>(1) | MW-14<br>9/28/21<br>(1) | MW-14<br>9/27/22<br>(1) | MW-14<br>9/29/23<br>(1) | MW-14<br>9/27/24<br>(1) | MW-65S<br>9/27/19<br>(1) | MW-65S<br>9/30/20<br>(1) | MW-65S<br>9/29/21<br>(1) | MW-65S<br>9/29/22<br>(1) | MW-65S<br>9/29/23<br>(1) | MW-65S<br>10/1/24<br>(1) | MW-101D<br>10/14/19<br>(1) | MW-101D<br>10/13/20<br>(1) | MW-101D<br>9/27/21<br>(1/2) | MW-101D<br>12/22/21<br>(2) | MW-101D<br>3/23/22<br>(2) | MW-101D<br>6/22/22<br>(2) | MW-101D<br>9/27/22<br>(1/2) |      |
| Parameter                                                                                                                                                                                      |                             |                              |                        |                        |                        |                        |                        |                        |                        |                        |                         |                         |                         |                         |                         |                         |                          |                          |                          |                          |                          |                          |                            |                            |                             |                            |                           |                           |                             |      |
| Volatile Organic Compound                                                                                                                                                                      |                             |                              |                        |                        |                        |                        |                        |                        |                        |                        |                         |                         |                         |                         |                         |                         |                          |                          |                          |                          |                          |                          |                            |                            |                             |                            |                           |                           |                             |      |
| 1,1,1,2-Tetrachloroethane                                                                                                                                                                      | 70                          | 70                           |                        | 0.57                   | 5 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U  |
| 1,1,1-Trichloroethane                                                                                                                                                                          | 200                         | 200                          | 200                    | 8000                   | 5 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U  |
| 1,1,2,2-Tetrachloroethane                                                                                                                                                                      | 0.84                        | 4.3                          |                        | 0.076                  | 5 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U  |
| 1,1,2-Trichloroethane                                                                                                                                                                          | 5                           | 5                            | 5                      | 0.28                   | 5 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U  |
| 1,1-Dichloroethane                                                                                                                                                                             | 31                          | 160                          |                        | 2.8                    | 5 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U  |
| 1,1-Dichloroethene                                                                                                                                                                             | 7                           | 7                            | 7                      | 8.2                    | 5 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U  |
| 1,2-Dibromoethane                                                                                                                                                                              | 0.05                        | 0.05                         | 0.05                   | 0.0075                 | 5 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U  |
| 1,2-Dichloroethane                                                                                                                                                                             | 5                           | 5                            | 5                      | 0.17                   | 5 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U  |
| 1,2-Dichloropropane                                                                                                                                                                            | 5                           | 5                            | 5                      | 0.85                   | 5 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U  |
| 2-Butanone                                                                                                                                                                                     | 4000                        | 4000                         |                        | 5600                   | 25 U                   | 10 U                   | 10 U                   | 10 U                   | 10 U                   | 10 U                   | 5 U                     | 10 U                    | 10 U                    | 10 U                    | 10 U                    | 10 U                    | 5 U                      | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                       | 5 U                        | 10 U                        | 10 U                       | 10 U                      | 10 U                      | 10 U                        | 10 U |
| 2-Hexanone                                                                                                                                                                                     | 63                          | 260                          |                        | 38                     | 25 U                   | 10 U                   | 10 U                   | 10 U                   | 10 U                   | 10 U                   | 5 U                     | 10 U                    | 10 U                    | 10 U                    | 10 U                    | 10 U                    | 5 U                      | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                       | 5 U                        | 10 U                        | 10 U                       | 10 U                      | 10 U                      | 10 U                        | 10 U |
| 4-Methyl-2-Pentanone                                                                                                                                                                           | 2800                        | 7800                         |                        | 6300                   | 25 U                   | 10 U                   | 10 U                   | 10 U                   | 10 U                   | 10 U                   | 5 U                     | 10 U                    | 10 U                    | 10 U                    | 10 U                    | 10 U                    | 5 U                      | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                       | 5 U                        | 10 U                        | 10 U                       | 10 U                      | 10 U                      | 10 U                        | 10 U |
| Acetone                                                                                                                                                                                        | 31000                       | 88000                        |                        | 18000                  | 25 U                   | 20 U                   | 20 U                   | 20 U                   | 20 U                   | 20 U                   | 5 U                     | 20 U                    | 20 U                    | 20 U                    | 20 U                    | 20 U                    | 5 U                      | 20 U                     | 20 U                     | 20 U                     | 20 U                     | 20 U                     | 20 U                       | 5 U                        | 20 U                        | 20 U                       | 20 U                      | 20 U                      | 20 U                        | 20 U |
| Benzene                                                                                                                                                                                        | 5                           | 5                            | 5                      | 0.46                   | 5 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                        | 1 U                         | 0.33 J                     | 1 U                       | 1 U                       | 1 U                         | 1 U  |
| Bromochloromethane                                                                                                                                                                             | 90                          | 90                           |                        | 83                     | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 1 U                     | 5 U                     | 5 U                     | 5 U                     | 5 U                     | 5 U                     | 1 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 1 U                        | 5 U                        | 5 U                         | 5 U                        | 5 U                       | 5 U                       | 5 U                         | 5 U  |
| Bromodichloromethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.13                   | 5 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U  |
| Bromoform                                                                                                                                                                                      | 80                          | 80                           |                        | 3.3                    | 5 U                    | 4 U                    | 4 U                    | 4 U                    | 4 U                    | 4 U                    | 1 U                     | 4 U                     | 4 U                     | 4 U                     | 4 U                     | 4 U                     | 4 U                      | 1 U                      | 4 U                      | 4 U                      | 4 U                      | 4 U                      | 4 U                        | 1 U                        | 4 U                         | 4 U                        | 4 U                       | 4 U                       | 4 U                         | 4 U  |
| Bromomethane                                                                                                                                                                                   | 10                          | 10                           |                        | 7.5                    | 5 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U  |
| Carbon Disulfide                                                                                                                                                                               | 1500                        | 6200                         |                        | 810                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 1 U                     | 5 U                     | 5 U                     | 5 U                     | 5 U                     | 5 U                     | 1 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                        | 1 U                        | 5 U                         | 5 U                        | 5 U                       | 5 U                       | 5 U                         | 5 U  |
| Carbon Tetrachloride                                                                                                                                                                           | 5                           | 5                            | 5                      | 0.46                   | 5 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U  |
| Chlorobenzene                                                                                                                                                                                  | 100                         | 100                          | 100                    | 78                     | 5 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U  |
| Chlorodibromomethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.87                   | 5 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U  |
| Chloroethane                                                                                                                                                                                   | 21000                       | 88000                        |                        | 8300                   | 5 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U  |
| Chloroform                                                                                                                                                                                     | 80                          | 80                           |                        | 0.22                   | 5 U                    | 1 U                    | 1 U                    | 1 U                    | 0.33 J                 | 1 U                    | 1 U                     | 0.29 J                  | 0.45 J                  | 0.92 J                  | 0.87 J                  | 0.33 J                  | 0.9 J                    | 1.4                      | 1.5                      | 1.2                      | 1.5                      | 1.1                      | 1 U                        | 0.52 J                     | 0.43 J                      | 0.48 J                     | 0.35 J                    | 0.39 J                    | 0.42 J                      |      |
| Chloromethane                                                                                                                                                                                  | 30                          | 30                           |                        | 190                    | 5 U                    | 1 U                    | 1 U                    | 2 U                    | 2 U                    | 2 U                    | 1 U                     | 1 U                     | 1 U                     | 2 U                     | 2 U                     | 2 U                     | 1 U                      | 1 U                      | 1 U                      | 2 U                      | 2 U                      | 2 U                      | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 2 U  |
| cis-1,2-Dichloroethene                                                                                                                                                                         | 70                          | 70                           | 70                     | 25                     | 5 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 0.24 J                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 12                         | 11                         | 13                          | 9.9                        | 8.0                       | 9.1                       | 8.9                         |      |
| cis-1,3-Dichloropropene                                                                                                                                                                        | 6.5                         | 27                           |                        | 0.47                   | 5 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U  |
| Ethylbenzene                                                                                                                                                                                   | 700                         | 700                          | 700                    | 1.5                    | 5 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U  |
| Methyl tert-butyl ether                                                                                                                                                                        | 20                          | 20                           |                        | 14                     | 5 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U  |
| Methylene chloride                                                                                                                                                                             | 5                           | 5                            |                        | 11                     | 5 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U  |
| Styrene                                                                                                                                                                                        | 100                         | 100                          | 100                    | 1200                   | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 1 U                     | 5 U                     | 5 U                     | 5 U                     | 5 U                     | 5 U                     | 1 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                        | 1 U                        | 5 U                         | 5 U                        | 5 U                       | 5 U                       | 5 U                         | 5 U  |
| Tetrachloroethene                                                                                                                                                                              | 5                           | 5                            | 5                      | 11                     | 61                     | 110                    | 81                     | 68                     | 110                    | 69                     | 4.1                     | 3.8                     | 1.8                     | 5.6                     | 2.0                     | 2.9                     | 1.9                      | 2.2                      | 2.4                      | 2.1                      | 1.7                      | 2.0                      | 4.4                        | 6                          | 3.9                         | 4.6                        | 4.1                       | 4.1                       | 3.9                         |      |
| Toluene                                                                                                                                                                                        | 1000                        | 1000                         | 1000                   | 1100                   | 5 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U  |
| trans-1,2-Dichloroethene                                                                                                                                                                       | 100                         | 100                          | 100                    | 68                     | 5 U                    | 5 U                    | 1 U                    | 2 U                    | 2 U                    | 2 U                    | 1 U                     | 1 U                     | 1 U                     | 2 U                     | 2 U                     | 2 U                     | 1 U                      | 1 U                      | 1 U                      | 2 U                      | 2 U                      | 2 U                      | 1 U                        | 5 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 2 U  |
| trans-1,3-Dichloropropene                                                                                                                                                                      | 6.5                         | 27                           |                        | 0.47                   | 5 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U  |
| Trichloroethene                                                                                                                                                                                | 5                           | 5                            | 5                      | 0.49                   | 5 U                    | 1 U                    | 0.62 J                 | 0.7 J                  | 1.1                    | 0.6 J                  | 1 U                     | 0.43 J                  | 0.6 J                   | 0.47 J                  | 0.53 J                  | 1 U                     | 17                       | 12                       | 12                       | 6.4                      | 4.3                      | 1 U                      | 7.9                        | 7.7                        | 5.9                         | 6.5                        | 5.3                       | 6.1                       | 4.5                         |      |
| Vinyl Chloride                                                                                                                                                                                 | 2                           | 2                            | 2                      | 0.019                  | 5 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U  |
| Xylenes (Total)                                                                                                                                                                                | 10000                       | 10000                        | 10000                  | 190                    | 10 U                   | 6 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 2 U                     | 6 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 2 U                      | 6 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 2 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U  |

Notes:  
µg/L - Micrograms per liter

U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".

J - Estimated. Detected concentration between the laboratory RL and the Method Detection Limit (MDL) shown as the approximate concentration reported by the laboratory followed by "J".  
These "J" concentrations were positively identified in the sample and are qualitatively acceptable.

PADEP MSC - Pennsylvania Department of Environmental Protection Statewide health standard  
Medium-Specific Concentration (November 2021)  
UA R - Used Aquifer Residential  
UA NR - Used Aquifer Non-Residential  
USEPA MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)  
USEPA RSL - United States Environmental Protection Agency Regional Screening Level for Residential Tap Water (TR = 1x10-6 and THQ=1.0) (November 2024)  
Color shaded cell denotes reported concentration greater than regulatory level  
(1) - Annual monitored natural attenuation (MNA) well sample  
(2) - Quarterly Technical Impracticability (TI) Area 1 sample  
(3) - Quarterly Southern Property Boundary Area (SPBA) extraction system performance monitoring sample  
(4) - Monthly SPBA extraction system performance monitoring  
(5) - Annual Northern Property Boundary Area (NPBA) plume assessment well sample

| TABLE 2.2-1<br>Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs) - Wells Outside Technical Impracticability (TI) Boundary<br>Former York Naval Ordnance Plant - York, PA |                             |                              |                        |                        |                            |                           |                           |                             |                            |                           |                           |                             |                            |                            |                            |                             |                            |                           |                           |                             |                            |                           |                           |                             |                            |                           |                           |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|------------------------|------------------------|----------------------------|---------------------------|---------------------------|-----------------------------|----------------------------|---------------------------|---------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|---------------------------|---------------------------|-----------------------------|----------------------------|---------------------------|---------------------------|-----------------------------|----------------------------|---------------------------|---------------------------|------|
| Location/Identification<br>Depth (feet)<br>Sample Date                                                                                                                                         | PADEP<br>MSC UA R<br>(µg/L) | PADEP<br>MSC UA NR<br>(µg/L) | USEPA<br>MCL<br>(µg/L) | USEPA<br>RSL<br>(µg/L) | MW-101D<br>12/20/22<br>(2) | MW-101D<br>3/21/23<br>(2) | MW-101D<br>6/20/23<br>(2) | MW-101D<br>9/27/23<br>(1/2) | MW-101D<br>12/19/23<br>(2) | MW-101D<br>3/19/24<br>(2) | MW-101D<br>6/25/24<br>(2) | MW-101D<br>9/26/24<br>(1/2) | MW-101D<br>12/17/24<br>(2) | MW-101S<br>10/14/19<br>(1) | MW-101S<br>10/13/20<br>(1) | MW-101S<br>9/27/21<br>(1/2) | MW-101S<br>12/22/21<br>(2) | MW-101S<br>3/23/22<br>(2) | MW-101S<br>6/22/22<br>(2) | MW-101S<br>9/27/22<br>(1/2) | MW-101S<br>12/20/22<br>(2) | MW-101S<br>3/21/23<br>(2) | MW-101S<br>6/20/23<br>(2) | MW-101S<br>9/27/23<br>(1/2) | MW-101S<br>12/19/23<br>(2) | MW-101S<br>3/19/24<br>(2) | MW-101S<br>6/25/24<br>(2) |      |
| Parameter                                                                                                                                                                                      |                             |                              |                        |                        |                            |                           |                           |                             |                            |                           |                           |                             |                            |                            |                            |                             |                            |                           |                           |                             |                            |                           |                           |                             |                            |                           |                           |      |
| Volatile Organic Compound                                                                                                                                                                      |                             |                              |                        |                        |                            |                           |                           |                             |                            |                           |                           |                             |                            |                            |                            |                             |                            |                           |                           |                             |                            |                           |                           |                             |                            |                           |                           |      |
| 1,1,1,2-Tetrachloroethane                                                                                                                                                                      | 70                          | 70                           |                        | 0.57                   | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 0.5 U                      | 1 U                       | 1 U                       | 1 U                         | 1 UJ                       | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 0.5 U                     | 1 U                       | 1 U  |
| 1,1,1-Trichloroethane                                                                                                                                                                          | 200                         | 200                          | 200                    | 8000                   | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 0.088 J                    | 1 U                       | 1 U                       | 1 U                         | 1 UJ                       | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 0.1 J                     | 1 U                       | 1 U  |
| 1,1,2,2-Tetrachloroethane                                                                                                                                                                      | 0.84                        | 4.3                          |                        | 0.076                  | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 0.5 U                      | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 0.5 U                     | 1 U                       | 1 U  |
| 1,1,2-Trichloroethane                                                                                                                                                                          | 5                           | 5                            | 5                      | 0.28                   | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 0.5 U                      | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 0.5 U                     | 1 U                       | 1 U  |
| 1,1-Dichloroethane                                                                                                                                                                             | 31                          | 160                          |                        | 2.8                    | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 0.23 J                     | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 0.5 U                     | 1 U                       | 1 U  |
| 1,1-Dichloroethene                                                                                                                                                                             | 7                           | 7                            | 7                      | 8.2                    | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 0.2 J                      | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 0.5 U                     | 1 U                       | 1 U  |
| 1,2-Dibromoethane                                                                                                                                                                              | 0.05                        | 0.05                         | 0.05                   | 0.0075                 | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 0.5 U                      | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 0.5 U                     | 1 U                       | 1 U  |
| 1,2-Dichloroethane                                                                                                                                                                             | 5                           | 5                            | 5                      | 0.17                   | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 0.5 U                      | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 0.5 U                     | 1 U                       | 1 U  |
| 1,2-Dichloropropane                                                                                                                                                                            | 5                           | 5                            | 5                      | 0.85                   | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 0.5 U                      | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 0.5 U                     | 1 U                       | 1 U  |
| 2-Butanone                                                                                                                                                                                     | 4000                        | 4000                         |                        | 5600                   | 10 U                       | 10 U                      | 10 U                      | 10 U                        | 5 U                        | 10 U                      | 10 U                      | 10 U                        | 10 U                       | 5 U                        | 10 U                       | 10 U                        | 10 U                       | 10 U                      | 10 U                      | 10 U                        | 10 U                       | 10 U                      | 10 U                      | 10 U                        | 10 U                       | 5 U                       | 10 U                      | 10 U |
| 2-Hexanone                                                                                                                                                                                     | 63                          | 260                          |                        | 38                     | 10 U                       | 10 U                      | 10 U                      | 10 U                        | 5 U                        | 10 U                      | 10 U                      | 10 U                        | 10 U                       | 5 U                        | 10 U                       | 10 U                        | 10 U                       | 10 U                      | 10 U                      | 10 U                        | 10 U                       | 10 U                      | 10 U                      | 10 U                        | 10 U                       | 5 U                       | 10 U                      | 10 U |
| 4-Methyl-2-Pentanone                                                                                                                                                                           | 2800                        | 7800                         |                        | 6300                   | 10 U                       | 10 U                      | 10 U                      | 10 U                        | 5 U                        | 10 U                      | 10 U                      | 10 U                        | 10 U                       | 5 U                        | 3 J                        | 10 U                        | 10 U                       | 10 U                      | 10 U                      | 10 U                        | 10 U                       | 10 U                      | 10 U                      | 10 U                        | 10 U                       | 5 U                       | 10 U                      | 10 U |
| Acetone                                                                                                                                                                                        | 31000                       | 88000                        |                        | 18000                  | 20 U                       | 20 UJ                     | 20 U                      | 20 U                        | 5 U                        | 20 U                      | 20 U                      | 20 U                        | 20 U                       | 5 U                        | 20 U                       | 20 U                        | 20 U                       | 20 U                      | 20 U                      | 20 U                        | 20 U                       | 20 U                      | 20 UJ                     | 20 U                        | 20 U                       | 5 U                       | 20 U                      | 20 U |
| Benzene                                                                                                                                                                                        | 5                           | 5                            | 5                      | 0.46                   | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 0.5 U                      | 1 U                       | 1 U                       | 1.6                         | 0.65 J                     | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 0.5 U                     | 1 U                       | 1 U  |
| Bromochloromethane                                                                                                                                                                             | 90                          | 90                           |                        | 83                     | 5 U                        | 5 U                       | 5 U                       | 5 U                         | 0.5 U                      | 5 U                       | 5 U                       | 5 U                         | 5 U                        | 1 U                        | 5 U                        | 5 U                         | 5 U                        | 5 U                       | 5 U                       | 5 U                         | 5 U                        | 5 U                       | 5 U                       | 5 U                         | 5 U                        | 0.5 U                     | 5 U                       | 5 U  |
| Bromodichloromethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.13                   | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 0.5 U                      | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 0.5 U                     | 1 U                       | 1 U  |
| Bromoform                                                                                                                                                                                      | 80                          | 80                           |                        | 3.3                    | 4 U                        | 4 U                       | 4 U                       | 4 U                         | 1 U                        | 4 U                       | 4 U                       | 4 UJ                        | 4 UJ                       | 1 U                        | 4 U                        | 4 U                         | 4 U                        | 4 U                       | 4 U                       | 4 U                         | 4 U                        | 4 U                       | 4 U                       | 4 U                         | 4 U                        | 1 U                       | 4 U                       | 4 U  |
| Bromomethane                                                                                                                                                                                   | 10                          | 10                           |                        | 7.5                    | 1 UJ                       | 1 U                       | 1 U                       | 1 U                         | 0.5 U                      | 1 U                       | 1 UJ                      | 1 U                         | 1 U                        | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 UJ                       | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 0.5 U                     | 1 U                       | 1 UJ |
| Carbon Disulfide                                                                                                                                                                               | 1500                        | 6200                         |                        | 810                    | 5 U                        | 5 U                       | 5 U                       | 5 U                         | 1 U                        | 5 U                       | 5 U                       | 5 U                         | 5 U                        | 1 U                        | 5 U                        | 5 U                         | 5 U                        | 5 U                       | 5 U                       | 5 U                         | 5 U                        | 5 U                       | 5 U                       | 5 U                         | 5 U                        | 1 U                       | 5 U                       | 5 U  |
| Carbon Tetrachloride                                                                                                                                                                           | 5                           | 5                            | 5                      | 0.46                   | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 0.5 U                      | 1 U                       | 1 U                       | 1 U                         | 1 UJ                       | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 0.5 U                     | 1 U                       | 1 U  |
| Chlorobenzene                                                                                                                                                                                  | 100                         | 100                          | 100                    | 78                     | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 0.5 U                      | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 0.5 U                     | 1 U                       | 1 U  |
| Chlorodibromomethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.87                   | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 0.5 U                      | 1 U                       | 1 U                       | 1 U                         | 1 UJ                       | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 0.5 U                     | 1 U                       | 1 U  |
| Chloroethane                                                                                                                                                                                   | 21000                       | 88000                        |                        | 8300                   | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 0.5 U                      | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 0.5 U                     | 1 U                       | 1 U  |
| Chloroform                                                                                                                                                                                     | 80                          | 80                           |                        | 0.22                   | 0.47 J                     | 1 U                       | 1 U                       | 1 U                         | 0.34 J                     | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 0.5 U                     | 1 U                       | 1 U  |
| Chloromethane                                                                                                                                                                                  | 30                          | 30                           |                        | 190                    | 2 U                        | 2 U                       | 2 U                       | 2 U                         | 0.5 U                      | 2 U                       | 2 UJ                      | 1 U                         | 2 U                        | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 2 U                        | 2 U                       | 2 U                       | 2 U                         | 2 U                        | 0.5 U                     | 2 U                       | 2 UJ |
| cis-1,2-Dichloroethene                                                                                                                                                                         | 70                          | 70                           | 70                     | 25                     | 8.8                        | 9.0                       | 6.5                       | 8.4                         | 8.6                        | 8.0                       | 8.1                       | 6.8                         | 6.8                        | 1.2                        | 0.93 J                     | 1 U                         | 0.7 J                      | 0.34 J                    | 0.3 J                     | 0.65 J                      | 0.48 J                     | 0.31 J                    | 1 U                       | 0.52 J                      | 0.18 J                     | 1 U                       | 0.46 J                    | 1 U  |
| cis-1,3-Dichloropropene                                                                                                                                                                        | 6.5                         | 27                           |                        | 0.47                   | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 0.5 U                      | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 0.5 U                     | 1 U                       | 1 U  |
| Ethylbenzene                                                                                                                                                                                   | 700                         | 700                          | 700                    | 1.5                    | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 0.5 U                      | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 0.5 U                     | 1 U                       | 1 U  |
| Methyl tert-butyl ether                                                                                                                                                                        | 20                          | 20                           |                        | 14                     | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 0.5 U                      | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 0.5 U                     | 1 U                       | 1 U  |
| Methylene chloride                                                                                                                                                                             | 5                           | 5                            |                        | 11                     | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 0.5 U                      | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1.6                        | 1.6                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 0.5 U                     | 1 U                       | 1 U  |
| Styrene                                                                                                                                                                                        | 100                         | 100                          | 100                    | 1200                   | 5 U                        | 5 U                       | 5 U                       | 5 U                         | 0.5 U                      | 5 U                       | 5 U                       | 5 U                         | 5 U                        | 1 U                        | 5 U                        | 5 U                         | 5 U                        | 5 U                       | 5 U                       | 5 U                         | 5 U                        | 5 U                       | 5 U                       | 5 U                         | 5 U                        | 0.5 U                     | 5 U                       | 5 U  |
| Tetrachloroethene                                                                                                                                                                              | 5                           | 5                            | 5                      | 11                     | 5.6                        | 3.1                       | 3.2                       | 3.6                         | 4.4                        | 3.2                       | 4.1                       | 3.9                         | 3.8                        | 4.5 J                      | 5                          | 1.1                         | 3.0                        | 2.0                       | 1.9                       | 3.8                         | 4.2                        | 2.7                       | 2.4                       | 3.3                         | 1.9                        | 1.7                       | 2.7                       | 2.7  |
| Toluene                                                                                                                                                                                        | 1000                        | 1000                         | 1000                   | 1100                   | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 0.5 U                      | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 0.5 U                     | 1 U                       | 1 U  |
| trans-1,2-Dichloroethene                                                                                                                                                                       | 100                         | 100                          | 100                    | 68                     | 2 U                        | 2 U                       | 2 U                       | 2 U                         | 0.5 U                      | 2 U                       | 2 U                       | 1 U                         | 1 U                        | 1 U                        | 5 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 2 U                         | 2 U                        | 2 U                       | 2 U                       | 2 U                         | 2 U                        | 0.5 U                     | 2 U                       | 2 U  |
| trans-1,3-Dichloropropene                                                                                                                                                                      | 6.5                         | 27                           |                        | 0.47                   | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 0.5 U                      | 1 U                       | 1 U                       | 1 U                         | 1 UJ                       | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 0.5 U                     | 1 U                       | 1 U  |
| Trichloroethene                                                                                                                                                                                | 5                           | 5                            | 5                      | 0.49                   | 5.3                        | 3.9                       | 3.7                       | 4.1                         | 4.9                        | 3.8                       | 3.9                       | 4.2                         | 4.1                        | 1.2                        | 1.2                        | 1 U                         | 0.74 J                     | 0.42 J                    | 0.38 J                    | 0.76 J                      | 0.64 J                     | 0.46 J                    | 1 U                       | 0.62 J                      | 0.32 J                     | 0.34 J                    | 0.52 J                    | 1 U  |
| Vinyl Chloride                                                                                                                                                                                 | 2                           | 2                            | 2                      | 0.019                  | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 0.5 U                      | 1 U                       | 1 UJ                      | 1 U                         | 1 U                        | 1 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 0.5 U                     | 1 U                       | 1 UJ |
| Xylenes (Total)                                                                                                                                                                                | 10000                       | 10000                        | 10000                  | 190                    | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 2 U                        | 1 U                        | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U                         | 1 U                        | 1 U                       | 1 U                       | 1 U  |

Notes:  
µg/L - Micrograms per liter

U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".

J - Estimated. Detected concentration between the laboratory RL and the Method Detection Limit (MDL) shown as the approximate concentration reported by the laboratory followed by "J". These "J" concentrations were positively identified in the sample and are qualitatively acceptable.

PADEP MSC - Pennsylvania Department of Environmental Protection Statewide health standard  
Medium-Specific Concentration (November 2021)  
UA R - Used Aquifer Residential  
UA NR - Used Aquifer Non-Residential  
USEPA MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)  
USEPA RSL - United States Environmental Protection Agency Regional Screening Level for Residential Tap Water (TR = 1x10-6 and THQ=1.0) (November 2024)  
Color shaded cell denotes reported concentration greater than regulatory level  
(1) - Annual monitored natural attenuation (MNA) well sample  
(2) - Quarterly Technical Impracticability (TI) Area 1 sample  
(3) - Quarterly Southern Property Boundary Area (SPBA) extraction system performance monitoring sample  
(4) - Monthly SPBA extraction system performance monitoring  
(5) - Annual Northern Property Boundary Area (NPBA) plume assessment well sample

| TABLE 2.2-1<br>Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs) - Wells Outside Technical Impracticability (TI) Boundary<br>Former York Naval Ordnance Plant - York, PA |                             |                              |                        |                        |                             |                            |                        |                        |                          |                         |                        |                        |                          |                         |                        |                        |                          |                         |                        |                        |                          |                         |                        |                        |                          |                         |                        |                        |                          |                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|------------------------|------------------------|-----------------------------|----------------------------|------------------------|------------------------|--------------------------|-------------------------|------------------------|------------------------|--------------------------|-------------------------|------------------------|------------------------|--------------------------|-------------------------|------------------------|------------------------|--------------------------|-------------------------|------------------------|------------------------|--------------------------|-------------------------|------------------------|------------------------|--------------------------|-------------------------|
| Location/Identification<br>Depth (feet)<br>Sample Date                                                                                                                                         | PADEP<br>MSC UA R<br>(µg/L) | PADEP<br>MSC UA NR<br>(µg/L) | USEPA<br>MCL<br>(µg/L) | USEPA<br>RSL<br>(µg/L) | MW-101S<br>9/26/24<br>(1/2) | MW-101S<br>12/17/24<br>(2) | MW-5<br>10/9/19<br>(1) | MW-5<br>10/8/20<br>(1) | MW-5<br>9/27/21<br>(1/2) | MW-5<br>12/22/21<br>(2) | MW-5<br>3/23/22<br>(2) | MW-5<br>6/22/22<br>(2) | MW-5<br>9/27/22<br>(1/2) | MW-5<br>12/20/22<br>(2) | MW-5<br>3/21/23<br>(2) | MW-5<br>6/20/23<br>(2) | MW-5<br>9/27/23<br>(1/2) | MW-5<br>12/19/23<br>(2) | MW-5<br>3/19/24<br>(2) | MW-5<br>6/25/24<br>(2) | MW-5<br>9/25/24<br>(1/2) | MW-5<br>12/17/24<br>(2) | MW-6<br>10/9/19<br>(1) | MW-6<br>10/9/20<br>(1) | MW-6<br>9/27/21<br>(1/2) | MW-6<br>12/21/21<br>(2) | MW-6<br>3/23/22<br>(2) | MW-6<br>6/22/22<br>(2) | MW-6<br>9/26/22<br>(1/2) | MW-6<br>12/20/22<br>(2) |
| Volatile Organic Compound                                                                                                                                                                      |                             |                              |                        |                        |                             |                            |                        |                        |                          |                         |                        |                        |                          |                         |                        |                        |                          |                         |                        |                        |                          |                         |                        |                        |                          |                         |                        |                        |                          |                         |
| 1,1,1,2-Tetrachloroethane                                                                                                                                                                      | 70                          | 70                           |                        | 0.57                   | 1 U                         | 1 UJ                       | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 UJ                    | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     |
| 1,1,1-Trichloroethane                                                                                                                                                                          | 200                         | 200                          | 200                    | 8000                   | 1 U                         | 1 UJ                       | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 UJ                    | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     |
| 1,1,2,2-Tetrachloroethane                                                                                                                                                                      | 0.84                        | 4.3                          |                        | 0.076                  | 1 U                         | 1 U                        | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     |
| 1,1,2-Trichloroethane                                                                                                                                                                          | 5                           | 5                            | 5                      | 0.28                   | 1 U                         | 1 U                        | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     |
| 1,1-Dichloroethane                                                                                                                                                                             | 31                          | 160                          |                        | 2.8                    | 1 U                         | 1 U                        | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 0.19 J                  | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     |
| 1,1-Dichloroethene                                                                                                                                                                             | 7                           | 7                            | 7                      | 8.2                    | 1 U                         | 1 U                        | 1 U                    | 0.2 J                  | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 0.21 J                  | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     |
| 1,2-Dibromoethane                                                                                                                                                                              | 0.05                        | 0.05                         | 0.05                   | 0.0075                 | 1 U                         | 1 U                        | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     |
| 1,2-Dichloroethane                                                                                                                                                                             | 5                           | 5                            | 5                      | 0.17                   | 1 U                         | 1 U                        | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     |
| 1,2-Dichloropropane                                                                                                                                                                            | 5                           | 5                            | 5                      | 0.85                   | 1 U                         | 1 U                        | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     |
| 2-Butanone                                                                                                                                                                                     | 4000                        | 4000                         |                        | 5600                   | 10 U                        | 10 U                       | 5 U                    | 10 U                   | 10 U                     | 10 U                    | 10 U                   | 10 U                   | 10 U                     | 10 U                    | 10 U                   | 10 U                   | 10 U                     | 5 U                     | 10 U                   | 10 U                   | 10 U                     | 10 U                    | 5 U                    | 10 U                   | 10 U                     | 10 U                    | 10 U                   | 10 U                   | 10 U                     | 10 U                    |
| 2-Hexanone                                                                                                                                                                                     | 63                          | 260                          |                        | 38                     | 10 U                        | 10 U                       | 5 U                    | 10 U                   | 10 U                     | 10 U                    | 10 U                   | 10 U                   | 10 U                     | 10 U                    | 10 U                   | 10 U                   | 10 U                     | 5 U                     | 10 U                   | 10 U                   | 10 U                     | 10 U                    | 5 U                    | 10 U                   | 10 U                     | 10 U                    | 10 U                   | 10 U                   | 10 U                     | 10 U                    |
| 4-Methyl-2-Pentanone                                                                                                                                                                           | 2800                        | 7800                         |                        | 6300                   | 10 U                        | 10 U                       | 5 U                    | 10 U                   | 10 U                     | 10 U                    | 10 U                   | 10 U                   | 10 U                     | 10 U                    | 10 U                   | 10 U                   | 10 U                     | 5 U                     | 10 U                   | 10 U                   | 10 U                     | 10 U                    | 5 U                    | 10 U                   | 10 U                     | 10 U                    | 10 U                   | 10 U                   | 10 U                     | 10 U                    |
| Acetone                                                                                                                                                                                        | 31000                       | 88000                        |                        | 18000                  | 20 U                        | 20 U                       | 5 U                    | 20 U                   | 20 U                     | 20 U                    | 20 U                   | 20 U                   | 20 U                     | 20 U                    | 20 UJ                  | 20 U                   | 20 U                     | 5 U                     | 20 U                   | 20 U                   | 20 U                     | 20 U                    | 5 U                    | 20 U                   | 20 U                     | 20 U                    | 20 U                   | 20 U                   | 20 U                     | 20 U                    |
| Benzene                                                                                                                                                                                        | 5                           | 5                            | 5                      | 0.46                   | 1 U                         | 1 U                        | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     |
| Bromochloromethane                                                                                                                                                                             | 90                          | 90                           |                        | 83                     | 5 U                         | 5 U                        | 1 U                    | 5 U                    | 5 U                      | 5 U                     | 5 U                    | 5 U                    | 5 U                      | 5 U                     | 5 U                    | 5 U                    | 5 U                      | 0.5 U                   | 5 U                    | 5 U                    | 5 U                      | 5 U                     | 1 U                    | 5 U                    | 5 U                      | 5 U                     | 5 U                    | 5 U                    | 5 U                      | 5 U                     |
| Bromodichloromethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.13                   | 1 U                         | 1 U                        | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     |
| Bromoform                                                                                                                                                                                      | 80                          | 80                           |                        | 3.3                    | 4 UJ                        | 4 UJ                       | 1 U                    | 4 U                    | 4 U                      | 4 U                     | 4 U                    | 4 U                    | 4 U                      | 4 U                     | 4 U                    | 4 U                    | 4 U                      | 1 U                     | 4 U                    | 4 U                    | 4 UJ                     | 4 UJ                    | 1 U                    | 4 U                    | 4 U                      | 4 U                     | 4 U                    | 4 U                    | 4 U                      | 4 U                     |
| Bromomethane                                                                                                                                                                                   | 10                          | 10                           |                        | 7.5                    | 1 U                         | 1 U                        | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 UJ                    | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 UJ                   | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 UJ                    |
| Carbon Disulfide                                                                                                                                                                               | 1500                        | 6200                         |                        | 810                    | 5 U                         | 5 U                        | 1 U                    | 5 U                    | 5 U                      | 5 U                     | 5 U                    | 5 U                    | 5 U                      | 5 U                     | 5 U                    | 5 U                    | 5 U                      | 1 U                     | 5 U                    | 5 U                    | 5 U                      | 5 U                     | 1 U                    | 5 U                    | 5 U                      | 5 U                     | 5 U                    | 5 U                    | 5 U                      | 5 U                     |
| Carbon Tetrachloride                                                                                                                                                                           | 5                           | 5                            | 5                      | 0.46                   | 1 U                         | 1 UJ                       | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 UJ                    | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     |
| Chlorobenzene                                                                                                                                                                                  | 100                         | 100                          | 100                    | 78                     | 1 U                         | 1 U                        | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     |
| Chlorodibromomethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.87                   | 1 U                         | 1 UJ                       | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 UJ                    | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     |
| Chloroethane                                                                                                                                                                                   | 21000                       | 88000                        |                        | 8300                   | 1 U                         | 1 U                        | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     |
| Chloroform                                                                                                                                                                                     | 80                          | 80                           |                        | 0.22                   | 1 U                         | 1 U                        | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     |
| Chloromethane                                                                                                                                                                                  | 30                          | 30                           |                        | 190                    | 2 U                         | 2 U                        | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 2 U                      | 2 U                     | 2 U                    | 2 U                    | 2 U                      | 0.5 U                   | 2 U                    | 2 UJ                   | 2 U                      | 2 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 2 U                      | 2 U                     |
| cis-1,2-Dichloroethene                                                                                                                                                                         | 70                          | 70                           | 70                     | 25                     | 0.42 J                      | 0.50 J                     | 3.4                    | 4.6                    | 4.7                      | 4.6                     | 3.4                    | 2.3                    | 3.9                      | 6.0                     | 4.4                    | 3.1                    | 4.0                      | 4.8                     | 1.8                    | 2.5                    | 3.7                      | 3.9                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     |
| cis-1,3-Dichloropropene                                                                                                                                                                        | 6.5                         | 27                           |                        | 0.47                   | 1 U                         | 1 U                        | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     |
| Ethylbenzene                                                                                                                                                                                   | 700                         | 700                          | 700                    | 1.5                    | 1 U                         | 1 U                        | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     |
| Methyl tert-butyl ether                                                                                                                                                                        | 20                          | 20                           |                        | 14                     | 1 U                         | 1 U                        | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     |
| Methylene chloride                                                                                                                                                                             | 5                           | 5                            |                        | 11                     | 1 U                         | 1 U                        | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     |
| Styrene                                                                                                                                                                                        | 100                         | 100                          | 100                    | 1200                   | 5 U                         | 5 U                        | 1 U                    | 5 U                    | 5 U                      | 5 U                     | 5 U                    | 5 U                    | 5 U                      | 5 U                     | 5 U                    | 5 U                    | 5 U                      | 0.5 U                   | 5 U                    | 5 U                    | 5 U                      | 5 U                     | 1 U                    | 5 U                    | 5 U                      | 5 U                     | 5 U                    | 5 U                    | 5 U                      | 5 U                     |
| Tetrachloroethene                                                                                                                                                                              | 5                           | 5                            | 5                      | 11                     | 3.7                         | 3.7                        | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     |
| Toluene                                                                                                                                                                                        | 1000                        | 1000                         | 1000                   | 1100                   | 1 U                         | 1 U                        | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     |
| trans-1,2-Dichloroethene                                                                                                                                                                       | 100                         | 100                          | 100                    | 68                     | 2 U                         | 2 U                        | 1 U                    | 0.31 J                 | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 2 U                      | 2 U                     | 2 U                    | 2 U                    | 2 U                      | 0.26 J                  | 2 U                    | 2 U                    | 2 U                      | 2 U                     | 1 U                    | 5 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 2 U                      | 2 U                     |
| trans-1,3-Dichloropropene                                                                                                                                                                      | 6.5                         | 27                           |                        | 0.47                   | 1 U                         | 1 U                        | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 UJ                    | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     |
| Trichloroethene                                                                                                                                                                                | 5                           | 5                            | 5                      | 0.49                   | 0.63 J                      | 0.62 J                     | 1 U                    | 0.42 J                 | 0.36 J                   | 0.38 J                  | 1 U                    | 1 U                    | 0.32 J                   | 0.43 J                  | 1 U                    | 1 U                    | 0.46 J                   | 0.47 J                  | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 0.21 J                 | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     |
| Vinyl Chloride                                                                                                                                                                                 | 2                           | 2                            | 2                      | 0.019                  | 1 U                         | 1 U                        | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 0.1 J                   | 1 U                    | 1 UJ                   | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     |
| Xylenes (Total)                                                                                                                                                                                | 10000                       | 10000                        | 10000                  | 190                    | 1 U                         | 1 U                        | 2 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 2 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     |

Notes:  
µg/L - Micrograms per liter

U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".

J - Estimated. Detected concentration between the laboratory RL and the Method Detection Limit (MDL) shown as the approximate concentration reported by the laboratory followed by "J".  
These "J" concentrations were positively identified in the sample and are qualitatively acceptable.

PADEP MSC - Pennsylvania Department of Environmental Protection Statewide health standard  
Medium-Specific Concentration (November 2021)  
UA R - Used Aquifer Residential  
UA NR - Used Aquifer Non-Residential  
USEPA MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)  
USEPA RSL - United States Environmental Protection Agency Regional Screening Level for Residential Tap Water (TR = 1x10-6 and THQ=1.0) (November 2024)  
Color shaded cell denotes reported concentration greater than regulatory level  
(1) - Annual monitored natural attenuation (MNA) well sample  
(2) - Quarterly Technical Impracticability (TI) Area 1 sample  
(3) - Quarterly Southern Property Boundary Area (SPBA) extraction system performance monitoring sample  
(4) - Monthly SPBA extraction system performance monitoring  
(5) - Annual Northern Property Boundary Area (NPBA) plume assessment well sample

| TABLE 2.2-1<br>Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs) - Wells Outside Technical Impracticability (TI) Boundary<br>Former York Naval Ordnance Plant - York, PA |                             |                              |                        |                        |                        |                        |                          |                         |                        |                        |                          |                         |                         |                         |                         |                         |                          |                         |                          |                          |                           |                           |                          |                        |                         |                        |                        |                         |                        |                        |       |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|------------------------|------------------------|------------------------|------------------------|--------------------------|-------------------------|------------------------|------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------|-------------------------|--------------------------|--------------------------|---------------------------|---------------------------|--------------------------|------------------------|-------------------------|------------------------|------------------------|-------------------------|------------------------|------------------------|-------|-----|
| Location/Identification<br>Depth (feet)<br>Sample Date                                                                                                                                         | PADEP<br>MSC UA R<br>(µg/L) | PADEP<br>MSC UA NR<br>(µg/L) | USEPA<br>MCL<br>(µg/L) | USEPA<br>RSL<br>(µg/L) | MW-6<br>3/21/23<br>(2) | MW-6<br>6/20/23<br>(2) | MW-6<br>9/27/23<br>(1/2) | MW-6<br>12/19/23<br>(2) | MW-6<br>3/19/24<br>(2) | MW-6<br>6/25/24<br>(2) | MW-6<br>9/26/24<br>(1/2) | MW-6<br>12/17/24<br>(2) | MW-82<br>10/8/19<br>(1) | MW-82<br>10/8/20<br>(1) | MW-82<br>10/8/21<br>(1) | MW-82<br>10/7/22<br>(1) | MW-82<br>10/10/23<br>(1) | MW-82<br>10/4/24<br>(1) | MW-186<br>10/8/20<br>(1) | MW-186<br>10/7/21<br>(1) | MW-186<br>10/13/22<br>(1) | MW-186<br>10/13/23<br>(1) | MW-186<br>10/9/24<br>(1) | MW-3<br>9/11/13<br>(1) | MW-3<br>10/14/14<br>(1) | MW-3<br>9/21/15<br>(1) | MW-3<br>10/7/16<br>(1) | MW-3<br>10/24/17<br>(1) | MW-3<br>10/1/18<br>(1) | MW-3<br>9/30/19<br>(1) |       |     |
| Volatile Organic Compound                                                                                                                                                                      |                             |                              |                        |                        |                        |                        |                          |                         |                        |                        |                          |                         |                         |                         |                         |                         |                          |                         |                          |                          |                           |                           |                          |                        |                         |                        |                        |                         |                        |                        |       |     |
| 1,1,1,2-Tetrachloroethane                                                                                                                                                                      | 70                          | 70                           |                        | 0.57                   | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 UJ                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 U                    | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 U                    | 1 U                    | 1.0 U |     |
| 1,1,1-Trichloroethane                                                                                                                                                                          | 200                         | 200                          | 200                    | 8000                   | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 UJ                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 U                    | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 U                    | 1 U                    | 1.0 U |     |
| 1,1,2,2-Tetrachloroethane                                                                                                                                                                      | 0.84                        | 4.3                          |                        | 0.076                  | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 U                    | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 UJ                   | 1 U                    | 1.0 U |     |
| 1,1,2-Trichloroethane                                                                                                                                                                          | 5                           | 5                            | 5                      | 0.28                   | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 U                    | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 U                    | 1 U                    | 1.0 U |     |
| 1,1-Dichloroethane                                                                                                                                                                             | 31                          | 160                          |                        | 2.8                    | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                     | 0.22 J                  | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 U                    | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 U                    | 1 U                    | 1.0 U |     |
| 1,1-Dichloroethene                                                                                                                                                                             | 7                           | 7                            | 7                      | 8.2                    | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 U                    | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 U                    | 1 U                    | 1.0 U |     |
| 1,2-Dibromoethane                                                                                                                                                                              | 0.05                        | 0.05                         | 0.05                   | 0.0075                 | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 U                    | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 U                    | 1 U                    | 1.0 U |     |
| 1,2-Dichloroethane                                                                                                                                                                             | 5                           | 5                            | 5                      | 0.17                   | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 U                    | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 U                    | 1 U                    | 1.0 U |     |
| 1,2-Dichloropropane                                                                                                                                                                            | 5                           | 5                            | 5                      | 0.85                   | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 U                    | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 U                    | 1 U                    | 1.0 U |     |
| 2-Butanone                                                                                                                                                                                     | 4000                        | 4000                         |                        | 5600                   | 10 U                   | 10 U                   | 10 U                     | 5 U                     | 10 U                   | 10 U                   | 10 U                     | 10 U                    | 5 U                     | 10 U                    | 10 U                    | 10 U                    | 10 U                     | 10 U                    | 10 U                     | 10 U                     | 10 U                      | 10 U                      | 10 U                     | 10 U                   | 5 U                     | 5.0 U                  | 5 U                    | 5.0 U                   | 5 U                    | 5 U                    | 5.0 U |     |
| 2-Hexanone                                                                                                                                                                                     | 63                          | 260                          |                        | 38                     | 10 U                   | 10 U                   | 10 U                     | 5 U                     | 10 U                   | 10 U                   | 10 U                     | 10 U                    | 5 U                     | 10 U                    | 10 U                    | 10 U                    | 10 U                     | 10 U                    | 10 U                     | 10 U                     | 10 U                      | 10 U                      | 10 U                     | 10 U                   | 5 U                     | 5.0 U                  | 5 UJ                   | 5.0 U                   | 5 U                    | 5 U                    | 5.0 U |     |
| 4-Methyl-2-Pentanone                                                                                                                                                                           | 2800                        | 7800                         |                        | 6300                   | 10 U                   | 10 U                   | 10 U                     | 5 U                     | 10 U                   | 10 U                   | 10 U                     | 10 U                    | 5 U                     | 10 U                    | 10 U                    | 10 U                    | 10 U                     | 10 U                    | 10 U                     | 10 U                     | 10 U                      | 10 U                      | 10 U                     | 10 U                   | 5 U                     | 5.0 U                  | 5 U                    | 5.0 U                   | 5 U                    | 5 U                    | 5.0 U |     |
| Acetone                                                                                                                                                                                        | 31000                       | 88000                        |                        | 18000                  | 20 UJ                  | 20 U                   | 20 U                     | 5 U                     | 20 U                   | 20 U                   | 20 U                     | 20 U                    | 5 U                     | 20 U                    | 20 U                    | 20 U                    | 20 U                     | 20 U                    | 20 U                     | 20 U                     | 20 U                      | 20 U                      | 20 U                     | 20 U                   | 5 U                     | 5.0 U                  | 5 U                    | 5.0 U                   | 5 U                    | 5 U                    | 5.0 U |     |
| Benzene                                                                                                                                                                                        | 5                           | 5                            | 5                      | 0.46                   | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 U                    | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 U                    | 1 U                    | 1.0 U |     |
| Bromochloromethane                                                                                                                                                                             | 90                          | 90                           |                        | 83                     | 5 U                    | 5 U                    | 5 U                      | 0.5 U                   | 5 U                    | 5 U                    | 5 U                      | 5 U                     | 1 U                     | 5 U                     | 5 U                     | 5 U                     | 5 U                      | 5 U                     | 5 U                      | 5 U                      | 5 U                       | 5 U                       | 5 U                      | 5 U                    | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 U                    | 1 U                    | 1.0 U |     |
| Bromodichloromethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.13                   | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 U                    | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 U                    | 1 U                    | 1.0 U |     |
| Bromoform                                                                                                                                                                                      | 80                          | 80                           |                        | 3.3                    | 4 U                    | 4 U                    | 4 U                      | 1 U                     | 4 U                    | 4 U                    | 4 UJ                     | 4 UJ                    | 1 U                     | 4 U                     | 4 U                     | 4 U                     | 4 U                      | 4 U                     | 4 U                      | 4 U                      | 4 U                       | 4 U                       | 4 U                      | 4 U                    | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 U                    | 1 U                    | 1.0 U |     |
| Bromomethane                                                                                                                                                                                   | 10                          | 10                           |                        | 7.5                    | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 UJ                   | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 UJ                   | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 UJ                   | 1 U                    | 1.0 U |     |
| Carbon Disulfide                                                                                                                                                                               | 1500                        | 6200                         |                        | 810                    | 5 U                    | 5 U                    | 5 U                      | 1 U                     | 5 U                    | 5 U                    | 5 U                      | 5 U                     | 1 U                     | 5 U                     | 5 U                     | 5 U                     | 5 U                      | 5 U                     | 5 U                      | 5 U                      | 5 U                       | 5 U                       | 5 U                      | 5 U                    | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 U                    | 1 U                    | 1.0 U |     |
| Carbon Tetrachloride                                                                                                                                                                           | 5                           | 5                            | 5                      | 0.46                   | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 UJ                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 U                    | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 U                    | 1 U                    | 1.0 U |     |
| Chlorobenzene                                                                                                                                                                                  | 100                         | 100                          | 100                    | 78                     | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 U                    | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 U                    | 1 U                    | 1.0 U |     |
| Chlorodibromomethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.87                   | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 UJ                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 U                    | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 U                    | 1 U                    | 1.0 U |     |
| Chloroethane                                                                                                                                                                                   | 21000                       | 88000                        |                        | 8300                   | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 UJ                   | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 U                    | 1 U                    | 1.0 U |     |
| Chloroform                                                                                                                                                                                     | 80                          | 80                           |                        | 0.22                   | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 U                    | 1 U                     | 2.9                    | 2.6                    | 2.2                     | 2.4                    | 2.2                    | 2.2   | 1.2 |
| Chloromethane                                                                                                                                                                                  | 30                          | 30                           |                        | 190                    | 2 U                    | 2 U                    | 2 U                      | 0.5 U                   | 2 U                    | 2 UJ                   | 2 U                      | 2 U                     | 1 U                     | 1 U                     | 1 U                     | 2 U                     | 2 U                      | 2 U                     | 1 U                      | 1 U                      | 2 U                       | 2 U                       | 2 U                      | 2 U                    | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 U                    | 1 U                    | 1.0 U |     |
| cis-1,2-Dichloroethene                                                                                                                                                                         | 70                          | 70                           | 70                     | 25                     | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 2.4                     | 1.6                     | 1.3                     | 1.3                     | 1.3                      | 1.0                     | 1 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 U                    | 0.66 J                  | 0.75 J                 | 0.63 J                 | 0.73 J                  | 0.82 J                 | 0.82 J                 | 1.0 U |     |
| cis-1,3-Dichloropropene                                                                                                                                                                        | 6.5                         | 27                           |                        | 0.47                   | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 UJ                   | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 U                    | 1 U                    | 1.0 U |     |
| Ethylbenzene                                                                                                                                                                                   | 700                         | 700                          | 700                    | 1.5                    | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 U                    | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 U                    | 1 U                    | 1.0 U |     |
| Methyl tert-butyl ether                                                                                                                                                                        | 20                          | 20                           |                        | 14                     | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 U                    | 0.26 J                  | 0.23 J                 | 0.19 J                 | 1.0 U                   | 1 U                    | 1 U                    | 1.0 U |     |
| Methylene chloride                                                                                                                                                                             | 5                           | 5                            |                        | 11                     | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 U                    | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 U                    | 1 U                    | 1.0 U |     |
| Styrene                                                                                                                                                                                        | 100                         | 100                          | 100                    | 1200                   | 5 U                    | 5 U                    | 5 U                      | 0.5 U                   | 5 U                    | 5 U                    | 5 U                      | 5 U                     | 1 U                     | 5 U                     | 5 U                     | 5 U                     | 5 U                      | 5 U                     | 5 U                      | 5 U                      | 5 U                       | 5 U                       | 5 U                      | 5 U                    | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 U                    | 1 U                    | 1.0 U |     |
| Tetrachloroethene                                                                                                                                                                              | 5                           | 5                            | 5                      | 11                     | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1.1                     | 1.4                     | 1.5                     | 1.8                     | 1.4                      | 1.3                     | 1 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 U                    | 0.47 J                  | 0.33 J                 | 0.39 J                 | 0.54 J                  | 1 U                    | 1 U                    | 1.0 U |     |
| Toluene                                                                                                                                                                                        | 1000                        | 1000                         | 1000                   | 1100                   | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 U                    | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 U                    | 1 U                    | 1.0 U |     |
| trans-1,2-Dichloroethene                                                                                                                                                                       | 100                         | 100                          | 100                    | 68                     | 2 U                    | 2 U                    | 2 U                      | 0.5 U                   | 2 U                    | 2 U                    | 2 U                      | 2 U                     | 1 U                     | 5 U                     | 1 U                     | 2 U                     | 2 U                      | 2 U                     | 5 U                      | 1 U                      | 2 U                       | 2 U                       | 2 U                      | 2 U                    | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 U                    | 1 U                    | 1.0 U |     |
| trans-1,3-Dichloropropene                                                                                                                                                                      | 6.5                         | 27                           |                        | 0.47                   | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 UJ                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 U                    | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 U                    | 1 U                    | 1.0 U |     |
| Trichloroethene                                                                                                                                                                                | 5                           | 5                            | 5                      | 0.49                   | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1.9                     | 1.3                     | 1.3                     | 1.2                     | 1.2                      | 0.94 J                  | 1 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 U                    | 32                      | 31                     | 31                     | 28                      | 32                     | 18                     | 4.2   |     |
| Vinyl Chloride                                                                                                                                                                                 | 2                           | 2                            | 2                      | 0.019                  | 1 U                    | 1 U                    | 1 U                      | 0.5 U                   | 1 U                    | 1 UJ                   | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 UJ                   | 1 U                     | 1.0 U                  | 1 U                    | 1.0 U                   | 1 U                    | 1 U                    | 1.0 U |     |
| Xylenes (Total)                                                                                                                                                                                | 10000                       | 10000                        | 10000                  | 190                    | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 1 U                    | 1 U                    | 1 U                      | 1 U                     | 2 U                     | 6 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 6 U                      | 1 U                      | 1 U                       | 1 U                       | 1 U                      | 1 U                    | 3 U                     | 3.0 U                  | 3 U                    | 2.0 U                   | 2 U                    | 2 U                    | 2.0 U |     |

Notes:  
µg/L - Micrograms per liter

U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".

J - Estimated. Detected concentration between the laboratory RL and the Method Detection Limit (MDL) shown as the approximate concentration reported by the laboratory followed by "J". These "J" concentrations were positively identified in the sample and are qualitatively acceptable.

PADEP MSC - Pennsylvania Department of Environmental Protection Statewide health standard Medium-Specific Concentration (November 2021)  
UA R - Used Aquifer Residential  
UA NR - Used Aquifer Non-Residential  
USEPA MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)  
USEPA RSL - United States Environmental Protection Agency Regional Screening Level for Residential Tap Water (TR = 1x10-6 and THQ=1.0) (November 2024)  
Color shaded cell denotes reported concentration greater than regulatory level  
(1) - Annual monitored natural attenuation (MNA) well sample  
(2) - Quarterly Technical Impracticability (TI) Area 1 sample  
(3) - Quarterly Southern Property Boundary Area (SPBA) extraction system performance monitoring sample  
(4) - Monthly SPBA extraction system performance monitoring  
(5) - Annual Northern Property Boundary Area (NPBA) plume assessment well sample

| TABLE 2.2-1<br>Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs) - Wells Outside Technical Impracticability (TI) Boundary<br>Former York Naval Ordnance Plant - York, PA |                             |                              |                        |                        |                        |                        |                        |                        |                        |                        |                         |                        |                         |                         |                        |                        |                        |                        |                        |                        |                        |                         |                          |                         |                          |                          |                         |                         |                         |                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|--------------------------|-------------------------|--------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Location/Identification<br>Depth (feet)<br>Sample Date                                                                                                                                         | PADEP<br>MSC UA R<br>(µg/L) | PADEP<br>MSC UA NR<br>(µg/L) | USEPA<br>MCL<br>(µg/L) | USEPA<br>RSL<br>(µg/L) | MW-3<br>9/29/20<br>(1) | MW-3<br>9/28/21<br>(1) | MW-3<br>9/29/22<br>(1) | MW-3<br>9/29/23<br>(1) | MW-3<br>9/30/24<br>(1) | MW-9<br>9/12/13<br>(1) | MW-9<br>10/16/14<br>(1) | MW-9<br>9/22/15<br>(1) | MW-9<br>10/10/16<br>(1) | MW-9<br>10/20/17<br>(1) | MW-9<br>10/3/18<br>(1) | MW-9<br>10/3/19<br>(1) | MW-9<br>9/29/20<br>(1) | MW-9<br>9/30/21<br>(1) | MW-9<br>9/29/22<br>(1) | MW-9<br>10/2/23<br>(1) | MW-9<br>9/27/24<br>(1) | MW-12<br>9/12/13<br>(1) | MW-12<br>10/17/14<br>(1) | MW-12<br>9/22/15<br>(1) | MW-12<br>10/12/16<br>(1) | MW-12<br>10/25/17<br>(1) | MW-12<br>10/3/18<br>(1) | MW-12<br>10/1/19<br>(1) | MW-12<br>10/2/20<br>(1) | MW-12<br>10/5/21<br>(1) |
| Volatile Organic Compound                                                                                                                                                                      |                             |                              |                        |                        |                        |                        |                        |                        |                        |                        |                         |                        |                         |                         |                        |                        |                        |                        |                        |                        |                        |                         |                          |                         |                          |                          |                         |                         |                         |                         |
| 1,1,1,2-Tetrachloroethane                                                                                                                                                                      | 70                          | 70                           |                        | 0.57                   | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 U                   | 1 U                     | 1 U                     |
| 1,1,1-Trichloroethane                                                                                                                                                                          | 200                         | 200                          | 200                    | 8000                   | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 U                   | 1 U                     | 1 U                     |
| 1,1,2,2-Tetrachloroethane                                                                                                                                                                      | 0.84                        | 4.3                          |                        | 0.076                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 U                   | 1 U                     | 1 U                     |
| 1,1,2-Trichloroethane                                                                                                                                                                          | 5                           | 5                            | 5                      | 0.28                   | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 U                   | 1 U                     | 1 U                     |
| 1,1-Dichloroethane                                                                                                                                                                             | 31                          | 160                          |                        | 2.8                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 U                   | 1 U                     | 1 U                     |
| 1,1-Dichloroethene                                                                                                                                                                             | 7                           | 7                            | 7                      | 8.2                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 U                   | 1 U                     | 1 U                     |
| 1,2-Dibromoethane                                                                                                                                                                              | 0.05                        | 0.05                         | 0.05                   | 0.0075                 | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 U                   | 1 U                     | 1 U                     |
| 1,2-Dichloroethane                                                                                                                                                                             | 5                           | 5                            | 5                      | 0.17                   | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 U                   | 1 U                     | 1 U                     |
| 1,2-Dichloropropane                                                                                                                                                                            | 5                           | 5                            | 5                      | 0.85                   | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 U                   | 1 U                     | 1 U                     |
| 2-Butanone                                                                                                                                                                                     | 4000                        | 4000                         |                        | 5600                   | 10 U                   | 10 U                   | 10 U                   | 10 U                   | 10 U                   | 25 U                   | 5.0 UJ                  | 5.0 U                  | 5 U                     | 5.0 U                   | 5 U                    | 5.0 U                  | 10 U                   | 10 U                   | 10 U                   | 10 U                   | 10 U                   | 25 U                    | 5.0 UJ                   | 5 UJ                    | 15 U                     | 10 U                     | 5 U                     | 25 U                    | 10 U                    | 10 U                    |
| 2-Hexanone                                                                                                                                                                                     | 63                          | 260                          |                        | 38                     | 10 U                   | 10 U                   | 10 U                   | 10 U                   | 10 U                   | 25 U                   | 5.0 UJ                  | 5 UJ                   | 5 U                     | 5.0 U                   | 5 U                    | 5.0 U                  | 10 U                   | 10 U                   | 10 U                   | 10 U                   | 10 U                   | 25 U                    | 5.0 UJ                   | 5 UJ                    | 15 U                     | 10 U                     | 5 U                     | 25 U                    | 10 U                    | 10 U                    |
| 4-Methyl-2-Pentanone                                                                                                                                                                           | 2800                        | 7800                         |                        | 6300                   | 10 U                   | 10 U                   | 10 U                   | 10 U                   | 10 U                   | 25 U                   | 5.0 UJ                  | 5 UJ                   | 5 U                     | 5.0 U                   | 5 U                    | 5.0 U                  | 10 U                   | 10 U                   | 10 U                   | 10 U                   | 10 U                   | 25 U                    | 5.0 UJ                   | 5 UJ                    | 15 U                     | 10 U                     | 5 U                     | 25 U                    | 10 U                    | 10 U                    |
| Acetone                                                                                                                                                                                        | 31000                       | 88000                        |                        | 18000                  | 20 U                   | 20 U                   | 20 U                   | 20 U                   | 20 U                   | 25 U                   | 5.0 UJ                  | 5.0 U                  | 5 U                     | 5.0 U                   | 5 U                    | 5.0 U                  | 20 U                   | 20 U                   | 20 U                   | 20 U                   | 20 U                   | 25 U                    | 5.0 UJ                   | 5.0 U                   | 15 U                     | 10 U                     | 5 U                     | 25 U                    | 0.73 J                  | 20 U                    |
| Benzene                                                                                                                                                                                        | 5                           | 5                            | 5                      | 0.46                   | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 U                   | 1 U                     | 1 U                     |
| Bromochloromethane                                                                                                                                                                             | 90                          | 90                           |                        | 83                     | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 UJ                  | 5 U                     | 5 U                     |
| Bromodichloromethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.13                   | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 UJ                  | 1 U                     | 1 U                     |
| Bromoform                                                                                                                                                                                      | 80                          | 80                           |                        | 3.3                    | 4 U                    | 4 U                    | 4 U                    | 4 U                    | 4 U                    | 5 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 4 U                    | 4 U                    | 4 U                    | 4 U                    | 4 UJ                   | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 U                   | 4 U                     | 4 U                     |
| Bromomethane                                                                                                                                                                                   | 10                          | 10                           |                        | 7.5                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 UJ                   | 5 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 UJ                  | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 UJ                  | 1 U                     | 1 U                     |
| Carbon Disulfide                                                                                                                                                                               | 1500                        | 6200                         |                        | 810                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 UJ                   | 5 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 U                   | 5 U                     | 5 U                     |
| Carbon Tetrachloride                                                                                                                                                                           | 5                           | 5                            | 5                      | 0.46                   | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 U                   | 1 U                     | 1 U                     |
| Chlorobenzene                                                                                                                                                                                  | 100                         | 100                          | 100                    | 78                     | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 U                   | 1 U                     | 1 U                     |
| Chlorodibromomethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.87                   | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 U                   | 1 U                     | 1 U                     |
| Chloroethane                                                                                                                                                                                   | 21000                       | 88000                        |                        | 8300                   | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 U                   | 1 U                     | 1 U                     |
| Chloroform                                                                                                                                                                                     | 80                          | 80                           |                        | 0.22                   | 1.5                    | 1.5                    | 1.1                    | 1.3                    | 1.2                    | 5 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 U                   | 1 U                     | 1 U                     |
| Chloromethane                                                                                                                                                                                  | 30                          | 30                           |                        | 190                    | 1 U                    | 1 U                    | 2 U                    | 2 U                    | 2 U                    | 5 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 2 U                    | 2 U                    | 2 U                    | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 UJ                     | 1 U                     | 5.0 U                   | 1 U                     | 1 U                     |
| cis-1,2-Dichloroethene                                                                                                                                                                         | 70                          | 70                           | 70                     | 25                     | 0.66 J                 | 0.61 J                 | 0.52 J                 | 0.53 J                 | 0.57 J                 | 32                     | 30 J                    | 36                     | 34                      | 27                      | 33                     | 20                     | 19                     | 15                     | 34                     | 18                     | 15                     | 42                      | 47 J                     | 52                      | 58                       | 46                       | 56                      | 47 J                    | 64                      | 65                      |
| cis-1,3-Dichloropropene                                                                                                                                                                        | 6.5                         | 27                           |                        | 0.47                   | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                    | 1.0 UJ                  | 1 UJ                   | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 UJ                  | 1 U                     | 1 U                     |
| Ethylbenzene                                                                                                                                                                                   | 700                         | 700                          | 700                    | 1.5                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 U                   | 1 U                     | 1 U                     |
| Methyl tert-butyl ether                                                                                                                                                                        | 20                          | 20                           |                        | 14                     | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 U                   | 1 U                     | 1 U                     |
| Methylene chloride                                                                                                                                                                             | 5                           | 5                            |                        | 11                     | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 UJ                  | 1 U                     | 1 U                     |
| Styrene                                                                                                                                                                                        | 100                         | 100                          | 100                    | 1200                   | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 U                   | 5 U                     | 5 U                     |
| Tetrachloroethene                                                                                                                                                                              | 5                           | 5                            | 5                      | 11                     | 0.31 J                 | 0.3 J                  | 1 U                    | 1 U                    | 1 U                    | 5 U                    | 0.22 J                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 4.7 J                   | 5.4 J                    | 6.4                     | 4.3                      | 2.7                      | 4.1                     | 3.0 J                   | 3.6                     | 3.9                     |
| Toluene                                                                                                                                                                                        | 1000                        | 1000                         | 1000                   | 1100                   | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 U                   | 1 U                     | 1 U                     |
| trans-1,2-Dichloroethene                                                                                                                                                                       | 100                         | 100                          | 100                    | 68                     | 1 U                    | 1 U                    | 2 U                    | 2 U                    | 2 U                    | 5 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 2 U                    | 2 U                    | 2 U                    | 2.3 J                   | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 U                   | 5 U                     | 1 U                     |
| trans-1,3-Dichloropropene                                                                                                                                                                      | 6.5                         | 27                           |                        | 0.47                   | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                    | 1.0 UJ                  | 1.0 U                  | 1 U                     | 1.0 U                   | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 U                   | 1 U                     | 1 U                     |
| Trichloroethene                                                                                                                                                                                | 5                           | 5                            | 5                      | 0.49                   | 2.8                    | 3.1                    | 2.0                    | 2.2                    | 1.7                    | 44                     | 41 J                    | 29                     | 19                      | 20                      | 27                     | 5.6 J                  | 5.4                    | 4.2                    | 10                     | 5.0                    | 4.0                    | 130                     | 90 J                     | 120                     | 93                       | 61                       | 67                      | 57                      | 80                      | 75                      |
| Vinyl Chloride                                                                                                                                                                                 | 2                           | 2                            | 2                      | 0.019                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 UJ                   | 5 U                    | 1.0 UJ                  | 5.0                    | 5.6                     | 3.7                     | 1.7                    | 2.9 J                  | 1.6                    | 2.4                    | 0.37 J                 | 1 U                    | 0.45 J                 | 5 U                     | 1.0 UJ                   | 1.0 U                   | 3.0 U                    | 2 U                      | 1 U                     | 5.0 U                   | 1 U                     | 1 U                     |
| Xylenes (Total)                                                                                                                                                                                | 10000                       | 10000                        | 10000                  | 190                    | 6 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 15 U                   | 3.0 UJ                  | 3.0 U                  | 2 U                     | 2.0 U                   | 2 U                    | 2.0 U                  | 6 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 15 U                    | 3.0 UJ                   | 3.0 U                   | 6.0 U                    | 4 U                      | 2 U                     | 10 U                    | 6 U                     | 1 U                     |

Notes:  
µg/L - Micrograms per liter

U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".

J - Estimated. Detected concentration between the laboratory RL and the Method Detection Limit (MDL) shown as the approximate concentration reported by the laboratory followed by "J". These "J" concentrations were positively identified in the sample and are qualitatively acceptable.

PADEP MSC - Pennsylvania Department of Environmental Protection Statewide health standard Medium-Specific Concentration (November 2021)  
UA R - Used Aquifer Residential  
UA NR - Used Aquifer Non-Residential  
USEPA MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)  
USEPA RSL - United States Environmental Protection Agency Regional Screening Level for Residential Tap Water (TR = 1x10-6 and THQ=1.0) (November 2024)  
Color shaded cell denotes reported concentration greater than regulatory level  
(1) - Annual monitored natural attenuation (MNA) well sample  
(2) - Quarterly Technical Impracticability (TI) Area 1 sample  
(3) - Quarterly Southern Property Boundary Area (SPBA) extraction system performance monitoring sample  
(4) - Monthly SPBA extraction system performance monitoring  
(5) - Annual Northern Property Boundary Area (NPBA) plume assessment well sample

| TABLE 2.2-1<br>Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs) - Wells Outside Technical Impracticability (TI) Boundary<br>Former York Naval Ordnance Plant - York, PA |                             |                              |                        |                        |                         |                         |                         |                          |                           |                          |                           |                           |                          |                          |                          |                          |                          |                          |                          |                          |                           |                          |                          |                           |                          |                          |                          |                          |                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|--------------------------|---------------------------|--------------------------|---------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------------------------|--------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Location/Identification<br>Depth (feet)<br>Sample Date                                                                                                                                         | PADEP<br>MSC UA R<br>(µg/L) | PADEP<br>MSC UA NR<br>(µg/L) | USEPA<br>MCL<br>(µg/L) | USEPA<br>RSL<br>(µg/L) | MW-12<br>9/29/22<br>(1) | MW-12<br>10/4/23<br>(1) | MW-12<br>10/1/24<br>(1) | MW-16S<br>9/10/13<br>(1) | MW-16S<br>10/22/14<br>(1) | MW-16S<br>9/23/15<br>(1) | MW-16S<br>10/11/16<br>(1) | MW-16S<br>10/25/17<br>(1) | MW-16S<br>10/2/18<br>(1) | MW-16S<br>10/3/19<br>(1) | MW-16S<br>10/5/20<br>(1) | MW-16S<br>9/30/21<br>(1) | MW-16S<br>9/29/22<br>(1) | MW-16S<br>10/2/23<br>(1) | MW-16S<br>10/4/24<br>(1) | MW-18D<br>9/10/13<br>(1) | MW-18D<br>10/23/14<br>(1) | MW-18D<br>9/24/15<br>(1) | MW-18D<br>10/7/16<br>(1) | MW-18D<br>10/26/17<br>(1) | MW-18D<br>10/3/18<br>(1) | MW-18D<br>10/1/19<br>(1) | MW-18D<br>10/5/20<br>(1) | MW-18D<br>10/4/21<br>(1) | MW-18D<br>9/30/22<br>(1) |
| Volatile Organic Compound                                                                                                                                                                      |                             |                              |                        |                        |                         |                         |                         |                          |                           |                          |                           |                           |                          |                          |                          |                          |                          |                          |                          |                          |                           |                          |                          |                           |                          |                          |                          |                          |                          |
| 1,1,1,2-Tetrachloroethane                                                                                                                                                                      | 70                          | 70                           |                        | 0.57                   | 1 U                     | 1 U                     | 1 U                     | 25 U                     | 1.0 U                     | 1.0 U                    | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 5 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                    | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      |
| 1,1,1-Trichloroethane                                                                                                                                                                          | 200                         | 200                          | 200                    | 8000                   | 1 U                     | 1 U                     | 1 U                     | 25 U                     | 1.0 U                     | 1.0 U                    | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 5 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                    | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      |
| 1,1,2,2-Tetrachloroethane                                                                                                                                                                      | 0.84                        | 4.3                          |                        | 0.076                  | 1 U                     | 1 U                     | 1 U                     | 25 U                     | 1.0 U                     | 1.0 U                    | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 5 U                      | 1.0 U                    | 1.0 U                     | 1.0 U                    | 1 U                      | 1 U                       | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      |
| 1,1,2-Trichloroethane                                                                                                                                                                          | 5                           | 5                            | 5                      | 0.28                   | 1 U                     | 1 U                     | 1 U                     | 25 U                     | 1.0 U                     | 1.0 U                    | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 5 U                      | 1.0 U                    | 1.0 U                     | 1.0 U                    | 1 U                      | 1 U                       | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      |
| 1,1-Dichloroethane                                                                                                                                                                             | 31                          | 160                          |                        | 2.8                    | 1 U                     | 1 U                     | 1 U                     | 25 U                     | 1.0 U                     | 1.0 U                    | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 5 U                      | 1.0 U                    | 1.0 U                     | 1.0 U                    | 1 U                      | 1 U                       | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      |
| 1,1-Dichloroethene                                                                                                                                                                             | 7                           | 7                            | 7                      | 8.2                    | 1 U                     | 1 U                     | 1 U                     | 25 U                     | 1.0 U                     | 1.0 U                    | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 5 U                      | 1.0 U                    | 1.0 U                     | 1.0 U                    | 1 U                      | 1 U                       | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      |
| 1,2-Dibromoethane                                                                                                                                                                              | 0.05                        | 0.05                         | 0.05                   | 0.0075                 | 1 U                     | 1 U                     | 1 U                     | 25 U                     | 1.0 U                     | 1.0 U                    | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 5 U                      | 1.0 U                    | 1.0 U                     | 1.0 U                    | 1 U                      | 1 U                       | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      |
| 1,2-Dichloroethane                                                                                                                                                                             | 5                           | 5                            | 5                      | 0.17                   | 1 U                     | 1 U                     | 1 U                     | 25 U                     | 1.0 U                     | 1.0 U                    | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 5 U                      | 1.0 U                    | 1.0 U                     | 1.0 U                    | 1 U                      | 1 U                       | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      |
| 1,2-Dichloropropane                                                                                                                                                                            | 5                           | 5                            | 5                      | 0.85                   | 1 U                     | 1 U                     | 1 U                     | 25 U                     | 1.0 U                     | 1.0 U                    | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 5 U                      | 1.0 U                    | 1.0 U                     | 1.0 U                    | 1 U                      | 1 U                       | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      |
| 2-Butanone                                                                                                                                                                                     | 4000                        | 4000                         |                        | 5600                   | 10 U                    | 10 U                    | 10 U                    | 130 U                    | 5.0 U                     | 5.0 U                    | 5 U                       | 10 U                      | 5 U                      | 5.0 U                    | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 25 U                     | 5.0 U                     | 5.0 U                    | 5.0 U                    | 5 U                       | 5 U                      | 5.0 U                    | 10 U                     | 10 U                     | 10 U                     |
| 2-Hexanone                                                                                                                                                                                     | 63                          | 260                          |                        | 38                     | 10 U                    | 10 U                    | 10 U                    | 130 U                    | 5.0 U                     | 5.0 U                    | 5 U                       | 10 U                      | 5 U                      | 5.0 U                    | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 25 U                     | 5.0 U                     | 5.0 U                    | 5.0 U                    | 5 U                       | 5 U                      | 5.0 U                    | 10 U                     | 10 U                     | 10 U                     |
| 4-Methyl-2-Pentanone                                                                                                                                                                           | 2800                        | 7800                         |                        | 6300                   | 10 U                    | 10 U                    | 10 U                    | 130 U                    | 5.0 U                     | 5.0 U                    | 5 U                       | 10 U                      | 5 U                      | 5.0 U                    | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 25 U                     | 5.0 U                     | 5.0 U                    | 5.0 U                    | 5 U                       | 5 U                      | 5.0 U                    | 10 U                     | 10 U                     | 10 U                     |
| Acetone                                                                                                                                                                                        | 31000                       | 88000                        |                        | 18000                  | 20 U                    | 20 U                    | 20 U                    | 130 U                    | 5.0 U                     | 5.0 U                    | 5 U                       | 10 U                      | 5 U                      | 5.0 U                    | 20 U                     | 20 U                     | 20 U                     | 20 U                     | 20 U                     | 25 U                     | 5.0 U                     | 5.0 U                    | 5.0 U                    | 5 U                       | 5 U                      | 5.0 U                    | 20 U                     | 20 U                     | 20 U                     |
| Benzene                                                                                                                                                                                        | 5                           | 5                            | 5                      | 0.46                   | 1 U                     | 1 U                     | 1 U                     | 25 U                     | 1.0 U                     | 1.0 U                    | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 5 U                      | 1.0 U                    | 1.0 U                     | 1.0 U                    | 1 U                      | 1 U                       | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      |
| Bromochloromethane                                                                                                                                                                             | 90                          | 90                           |                        | 83                     | 5 U                     | 5 U                     | 5 U                     | 25 U                     | 1.0 U                     | 1.0 U                    | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                    | 1 U                       | 1 U                      | 1.0 U                    | 5 U                      | 5 U                      | 5 U                      |
| Bromodichloromethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.13                   | 1 U                     | 1 U                     | 1 U                     | 25 U                     | 1.0 U                     | 1.0 U                    | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 5 U                      | 1.0 U                    | 1.0 U                     | 1.0 U                    | 1 U                      | 1 U                       | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      |
| Bromoform                                                                                                                                                                                      | 80                          | 80                           |                        | 3.3                    | 4 U                     | 4 U                     | 4 U                     | 25 U                     | 1.0 U                     | 1 U                      | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 4 U                      | 4 U                      | 4 U                      | 4 U                      | 5 U                      | 1.0 U                    | 1.0 U                     | 1.0 U                    | 1 U                      | 1 U                       | 1.0 U                    | 4 U                      | 4 U                      | 4 U                      | 4 U                      |
| Bromomethane                                                                                                                                                                                   | 10                          | 10                           |                        | 7.5                    | 1 U                     | 1 U                     | 1 U                     | 25 U                     | 1.0 U                     | 1.0 U                    | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 5 U                      | 1.0 U                    | 1.0 U                     | 1.0 U                    | 1 U                      | 1 U                       | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      |
| Carbon Disulfide                                                                                                                                                                               | 1500                        | 6200                         |                        | 810                    | 5 U                     | 5 U                     | 5 U                     | 25 U                     | 1.0 U                     | 1.0 U                    | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                    | 1 U                       | 1 U                      | 1.0 U                    | 5 U                      | 5 U                      | 5 U                      |
| Carbon Tetrachloride                                                                                                                                                                           | 5                           | 5                            | 5                      | 0.46                   | 1 U                     | 1 U                     | 1 U                     | 25 U                     | 1.0 U                     | 1.0 U                    | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 5 U                      | 1.0 U                    | 1.0 U                     | 1.0 U                    | 1 U                      | 1 U                       | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      |
| Chlorobenzene                                                                                                                                                                                  | 100                         | 100                          | 100                    | 78                     | 1 U                     | 1 U                     | 1 U                     | 25 U                     | 1.0 U                     | 1.0 U                    | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 5 U                      | 1.0 U                    | 1.0 U                     | 1.0 U                    | 1 U                      | 1 U                       | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      |
| Chlorodibromomethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.87                   | 1 U                     | 1 U                     | 1 U                     | 25 U                     | 1.0 U                     | 1.0 U                    | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 5 U                      | 1.0 U                    | 1.0 U                     | 1.0 U                    | 1 U                      | 1 U                       | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      |
| Chloroethane                                                                                                                                                                                   | 21000                       | 88000                        |                        | 8300                   | 1 U                     | 1 U                     | 1 U                     | 25 U                     | 1.0 U                     | 1.0 U                    | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 5 U                      | 1.0 U                    | 1 U                       | 1.0 U                    | 1 U                      | 1 U                       | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      |
| Chloroform                                                                                                                                                                                     | 80                          | 80                           |                        | 0.22                   | 1 U                     | 1 U                     | 1 U                     | 6.2 J                    | 1.0 U                     | 1.0 U                    | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.2 J                    | 1.0 U                     | 1.0 U                    | 1.0 U                    | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      |
| Chloromethane                                                                                                                                                                                  | 30                          | 30                           |                        | 190                    | 2 U                     | 2 U                     | 2 U                     | 25 U                     | 1.0 U                     | 0.28 J                   | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 2 U                      | 2 U                      | 2 U                      | 5 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                    | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 2 U                      |
| cis-1,2-Dichloroethene                                                                                                                                                                         | 70                          | 70                           | 70                     | 25                     | 63                      | 66                      | 75                      | 40                       | 38                        | 42                       | 37                        | 12                        | 7.4                      | 4.1                      | 5.1                      | 5.0                      | 5.2                      | 6.1                      | 6.3                      | 66                       | 14                        | 20                       | 15                       | 14                        | 28                       | 14                       | 21                       | 19                       | 12                       |
| cis-1,3-Dichloropropene                                                                                                                                                                        | 6.5                         | 27                           |                        | 0.47                   | 1 U                     | 1 U                     | 1 U                     | 25 U                     | 1.0 U                     | 1 U                      | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 5 U                      | 1.0 U                    | 1.0 U                     | 1.0 U                    | 1 U                      | 1 U                       | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      |
| Ethylbenzene                                                                                                                                                                                   | 700                         | 700                          | 700                    | 1.5                    | 1 U                     | 1 U                     | 1 U                     | 25 U                     | 1.0 U                     | 1.0 U                    | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 5 U                      | 1.0 U                    | 1.0 U                     | 1.0 U                    | 1 U                      | 1 U                       | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      |
| Methyl tert-butyl ether                                                                                                                                                                        | 20                          | 20                           |                        | 14                     | 1 U                     | 1 U                     | 1 U                     | 25 U                     | 1.0 U                     | 1.0 U                    | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 5 U                      | 1.0 U                    | 1.0 U                     | 1.0 U                    | 1 U                      | 1 U                       | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      |
| Methylene chloride                                                                                                                                                                             | 5                           | 5                            |                        | 11                     | 1 U                     | 1 U                     | 1 U                     | 12 J                     | 1.0 U                     | 1.0 U                    | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 2.1 J                    | 1.0 U                    | 1.0 U                     | 1.0 U                    | 1 U                      | 1 U                       | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      |
| Styrene                                                                                                                                                                                        | 100                         | 100                          | 100                    | 1200                   | 5 U                     | 5 U                     | 5 U                     | 25 U                     | 1.0 U                     | 1.0 U                    | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                    | 1 U                       | 1 U                      | 1.0 U                    | 5 U                      | 5 U                      | 5 U                      |
| Tetrachloroethene                                                                                                                                                                              | 5                           | 5                            | 5                      | 11                     | 2.9                     | 3                       | 3.2                     | 450                      | 110                       | 6.7                      | 48                        | 1.7 J                     | 1.1                      | 1.0 U                    | 1.9                      | 1 U                      | 0.74 J                   | 0.91 J                   | 0.68 J                   | 5 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                    | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      |
| Toluene                                                                                                                                                                                        | 1000                        | 1000                         | 1000                   | 1100                   | 1 U                     | 1 U                     | 1 U                     | 25 U                     | 1.0 U                     | 1.0 U                    | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 5 U                      | 1.0 U                    | 1.0 U                     | 1.0 U                    | 1 U                      | 1 U                       | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      |
| trans-1,2-Dichloroethene                                                                                                                                                                       | 100                         | 100                          | 100                    | 68                     | 2 U                     | 2 U                     | 2 U                     | 25 U                     | 1.0 U                     | 1.0 U                    | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 5 U                      | 1 U                      | 2 U                      | 2 U                      | 2 U                      | 5 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                    | 1 U                       | 1 U                      | 1.0 U                    | 5 U                      | 1 U                      | 2 U                      |
| trans-1,3-Dichloropropene                                                                                                                                                                      | 6.5                         | 27                           |                        | 0.47                   | 1 U                     | 1 U                     | 1 U                     | 25 U                     | 1.0 U                     | 1.0 U                    | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 5 U                      | 1.0 U                    | 1.0 U                     | 1.0 U                    | 1 U                      | 1 U                       | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      |
| Trichloroethene                                                                                                                                                                                | 5                           | 5                            | 5                      | 0.49                   | 64                      | 63                      | 55                      | 19 J                     | 9.3                       | 5.6                      | 6.2                       | 7.7 J                     | 20                       | 15                       | 17                       | 18                       | 16                       | 16                       | 14                       | 42                       | 8.1                       | 9.5                      | 5.5                      | 3.8                       | 6.6                      | 3.0                      | 3.6                      | 2.9                      | 1.9                      |
| Vinyl Chloride                                                                                                                                                                                 | 2                           | 2                            | 2                      | 0.019                  | 1 U                     | 1 U                     | 1 U                     | 25 U                     | 1.0 U                     | 1.0 U                    | 1 U                       | 2 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.6 J                    | 0.58 J                   | 0.60 J                    | 0.53 J                   | 1 U                      | 1 U                       | 1.0 U                    | 0.37 J                   | 0.38 J                   | 1 U                      | 1 U                      |
| Xylenes (Total)                                                                                                                                                                                | 10000                       | 10000                        | 10000                  | 190                    | 1 U                     | 1 U                     | 1 U                     | 75 U                     | 3.0 U                     | 3.0 U                    | 2 U                       | 4 U                       | 2 U                      | 2.0 U                    | 6 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 15 U                     | 3.0 U                     | 3.0 U                    | 2.0 U                    | 2 U                       | 2 U                      | 2.0 U                    | 15 U                     | 1 U                      | 1 U                      |

Notes:  
µg/L - Micrograms per liter

U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".

J - Estimated. Detected concentration between the laboratory RL and the Method Detection Limit (MDL) shown as the approximate concentration reported by the laboratory followed by "J". These "J" concentrations were positively identified in the sample and are qualitatively acceptable.

PADEP MSC - Pennsylvania Department of Environmental Protection Statewide health standard Medium-Specific Concentration (November 2021)  
UA R - Used Aquifer Residential  
UA NR - Used Aquifer Non-Residential  
USEPA MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)  
USEPA RSL - United States Environmental Protection Agency Regional Screening Level for Residential Tap Water (TR = 1x10-6 and THQ=1.0) (November 2024)  
Color shaded cell denotes reported concentration greater than regulatory level  
(1) - Annual monitored natural attenuation (MNA) well sample  
(2) - Quarterly Technical Impracticability (TI) Area 1 sample  
(3) - Quarterly Southern Property Boundary Area (SPBA) extraction system performance monitoring sample  
(4) - Monthly SPBA extraction system performance monitoring  
(5) - Annual Northern Property Boundary Area (NPBA) plume assessment well sample



| TABLE 2.2-1<br>Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs) - Wells Outside Technical Impracticability (TI) Boundary<br>Former York Naval Ordnance Plant - York, PA |                             |                              |                        |                        |                          |                          |                         |                           |                          |                           |                           |                          |                          |                          |                          |                          |                          |                          |                          |                           |                          |                           |                           |                          |                          |                          |                          |                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|------------------------|------------------------|--------------------------|--------------------------|-------------------------|---------------------------|--------------------------|---------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------------------------|---------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Location/Identification<br>Depth (feet)<br>Sample Date                                                                                                                                         | PADEP<br>MSC UA R<br>(µg/L) | PADEP<br>MSC UA NR<br>(µg/L) | USEPA<br>MCL<br>(µg/L) | USEPA<br>RSL<br>(µg/L) | MW-18D<br>10/4/23<br>(1) | MW-18D<br>10/2/24<br>(1) | MW-18S<br>9/9/13<br>(1) | MW-18S<br>10/23/14<br>(1) | MW-18S<br>9/25/15<br>(1) | MW-18S<br>10/13/16<br>(1) | MW-18S<br>10/27/17<br>(1) | MW-18S<br>10/3/18<br>(1) | MW-18S<br>10/4/19<br>(1) | MW-18S<br>10/2/20<br>(1) | MW-18S<br>10/5/21<br>(1) | MW-18S<br>9/30/22<br>(1) | MW-18S<br>10/4/23<br>(1) | MW-18S<br>10/2/24<br>(1) | MW-18S<br>9/13/13<br>(1) | MW-20M<br>10/29/14<br>(1) | MW-20M<br>9/30/15<br>(1) | MW-20M<br>10/14/16<br>(1) | MW-20M<br>10/20/17<br>(1) | MW-20M<br>10/3/18<br>(1) | MW-20M<br>10/1/19<br>(1) | MW-20M<br>9/30/20<br>(1) | MW-20M<br>9/29/21<br>(1) | MW-20M<br>9/29/22<br>(1) |
| Volatile Organic Compound                                                                                                                                                                      |                             |                              |                        |                        |                          |                          |                         |                           |                          |                           |                           |                          |                          |                          |                          |                          |                          |                          |                          |                           |                          |                           |                           |                          |                          |                          |                          |                          |
| 1,1,1,2-Tetrachloroethane                                                                                                                                                                      | 70                          | 70                           |                        | 0.57                   | 1 U                      | 1 U                      | 5 U                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                     | 1 UJ                     | 1.0 U                     | 1.0 U                     | 1 U                      | 2.0 U                    | 1 U                      | 1 U                      | 1 U                      |
| 1,1,1-Trichloroethane                                                                                                                                                                          | 200                         | 200                          | 200                    | 8000                   | 1 U                      | 1 U                      | 5 U                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 2.0 U                    | 1 U                      | 1 U                      | 1 U                      |
| 1,1,2,2-Tetrachloroethane                                                                                                                                                                      | 0.84                        | 4.3                          |                        | 0.076                  | 1 U                      | 1 U                      | 5 U                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                     | 1.0 UJ                    | 1 U                      | 2.0 U                    | 1 U                      | 1 U                      | 1 U                      |
| 1,1,2-Trichloroethane                                                                                                                                                                          | 5                           | 5                            | 5                      | 0.28                   | 1 U                      | 1 U                      | 5 U                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                     | 1.0 UJ                    | 1 U                      | 2.0 U                    | 1 U                      | 1 U                      | 1 U                      |
| 1,1-Dichloroethane                                                                                                                                                                             | 31                          | 160                          |                        | 2.8                    | 1 U                      | 1 U                      | 5 U                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 2.0 U                    | 1 U                      | 1 U                      | 1 U                      |
| 1,1-Dichloroethene                                                                                                                                                                             | 7                           | 7                            | 7                      | 8.2                    | 1 U                      | 1 U                      | 5 U                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 2.0 UJ                   | 1 U                      | 1 U                      | 1 U                      |
| 1,2-Dibromoethane                                                                                                                                                                              | 0.05                        | 0.05                         | 0.05                   | 0.0075                 | 1 U                      | 1 U                      | 5 U                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                     | 1.0 UJ                    | 1 U                      | 2.0 U                    | 1 U                      | 1 U                      | 1 U                      |
| 1,2-Dichloroethane                                                                                                                                                                             | 5                           | 5                            | 5                      | 0.17                   | 1 U                      | 1 U                      | 5 U                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 2.0 U                    | 1 U                      | 1 U                      | 1 U                      |
| 1,2-Dichloropropane                                                                                                                                                                            | 5                           | 5                            | 5                      | 0.85                   | 1 U                      | 1 U                      | 5 U                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 2.0 U                    | 1 U                      | 1 U                      | 1 U                      |
| 2-Butanone                                                                                                                                                                                     | 4000                        | 4000                         |                        | 5600                   | 10 U                     | 10 U                     | 25 U                    | 5.0 U                     | 5 U                      | 5.0 U                     | 5 U                       | 5 U                      | 5.0 U                    | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 5 U                      | 5.0 U                     | 5.0 U                    | 5.0 U                     | 5.0 U                     | 5 U                      | 10 U                     | 10 U                     | 10 U                     | 10 U                     |
| 2-Hexanone                                                                                                                                                                                     | 63                          | 260                          |                        | 38                     | 10 U                     | 10 U                     | 25 U                    | 5.0 U                     | 5 U                      | 5.0 U                     | 5 U                       | 5 U                      | 5.0 U                    | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 5 U                      | 5.0 U                     | 5 UJ                     | 5.0 U                     | 5.0 U                     | 5 U                      | 10 U                     | 10 U                     | 10 U                     | 10 U                     |
| 4-Methyl-2-Pentanone                                                                                                                                                                           | 2800                        | 7800                         |                        | 6300                   | 10 U                     | 10 U                     | 25 U                    | 5.0 U                     | 5 U                      | 5.0 U                     | 5 U                       | 5 U                      | 5.0 U                    | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 5 U                      | 5.0 U                     | 5.0 U                    | 5.0 U                     | 5.0 U                     | 5 U                      | 10 U                     | 10 U                     | 10 U                     | 10 U                     |
| Acetone                                                                                                                                                                                        | 31000                       | 88000                        |                        | 18000                  | 20 U                     | 20 U                     | 25 U                    | 5.0 U                     | 5 U                      | 5.0 U                     | 5 U                       | 5 U                      | 5.0 U                    | 20 U                     | 20 U                     | 20 U                     | 20 U                     | 20 U                     | 5 U                      | 5.0 U                     | 5.0 U                    | 2.7 J                     | 5.0 U                     | 5 U                      | 10 U                     | 20 U                     | 20 U                     | 20 U                     |
| Benzene                                                                                                                                                                                        | 5                           | 5                            | 5                      | 0.46                   | 1 U                      | 1 U                      | 5 U                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 2.0 U                    | 1 U                      | 1 U                      | 1 U                      |
| Bromochloromethane                                                                                                                                                                             | 90                          | 90                           |                        | 83                     | 5 U                      | 5 U                      | 5 U                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 1 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 2.0 U                    | 5 U                      | 5 U                      | 5 U                      |
| Bromodichloromethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.13                   | 1 U                      | 1 U                      | 5 U                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 2.0 U                    | 1 U                      | 1 U                      | 1 U                      |
| Bromoform                                                                                                                                                                                      | 80                          | 80                           |                        | 3.3                    | 4 U                      | 4 U                      | 5 U                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 4 U                      | 4 U                      | 4 U                      | 4 U                      | 4 U                      | 1 U                      | 1.0 U                     | 1 UJ                     | 1.0 U                     | 1.0 U                     | 1 U                      | 2.0 U                    | 4 U                      | 4 U                      | 4 U                      |
| Bromomethane                                                                                                                                                                                   | 10                          | 10                           |                        | 7.5                    | 1 U                      | 1 U                      | 5 U                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                     | 1 UJ                     | 1.0 U                     | 1.0 UJ                    | 1 U                      | 2.0 U                    | 1 U                      | 1 U                      | 1 U                      |
| Carbon Disulfide                                                                                                                                                                               | 1500                        | 6200                         |                        | 810                    | 5 U                      | 5 U                      | 5 U                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 5 U                      | 5 U                      | 0.33 J                   | 5 U                      | 5 U                      | 1 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 2.0 U                    | 5 U                      | 5 U                      | 5 U                      |
| Carbon Tetrachloride                                                                                                                                                                           | 5                           | 5                            | 5                      | 0.46                   | 1 U                      | 1 U                      | 5 U                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 2.0 U                    | 1 U                      | 1 U                      | 1 U                      |
| Chlorobenzene                                                                                                                                                                                  | 100                         | 100                          | 100                    | 78                     | 1 U                      | 1 U                      | 5 U                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 2.0 U                    | 1 U                      | 1 U                      | 1 U                      |
| Chlorodibromomethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.87                   | 1 U                      | 1 U                      | 5 U                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 2.0 U                    | 1 U                      | 1 U                      | 1 U                      |
| Chloroethane                                                                                                                                                                                   | 21000                       | 88000                        |                        | 8300                   | 1 U                      | 1 U                      | 5 U                     | 1.0 U                     | 1 UJ                     | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 2.0 U                    | 1 U                      | 1 U                      | 1 U                      |
| Chloroform                                                                                                                                                                                     | 80                          | 80                           |                        | 0.22                   | 1 U                      | 1 U                      | 5 U                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.4                      | 1.0 U                     | 1.0                      | 0.38 J                    | 0.83 J                    | 1.3                      | 2.0 U                    | 0.78 J                   | 0.67 J                   | 0.39 J                   |
| Chloromethane                                                                                                                                                                                  | 30                          | 30                           |                        | 190                    | 2 U                      | 2 U                      | 5 U                     | 1.0 U                     | 0.28 J                   | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 2 U                      | 2 U                      | 2 U                      | 1 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 2.0 UJ                   | 1 U                      | 1 U                      | 2 UJ                     |
| cis-1,2-Dichloroethene                                                                                                                                                                         | 70                          | 70                           | 70                     | 25                     | 10                       | 7.3                      | 71                      | 7.0                       | 22                       | 3.7                       | 14                        | 26                       | 15                       | 14                       | 16                       | 12                       | 9.0                      | 8.0                      | 1 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                     | 1.0 U                     | 0.81 J                   | 2.0 U                    | 0.39 J                   | 0.31 J                   | 1 U                      |
| cis-1,3-Dichloropropene                                                                                                                                                                        | 6.5                         | 27                           |                        | 0.47                   | 1 U                      | 1 U                      | 5 U                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 2.0 U                    | 1 U                      | 1 U                      | 1 U                      |
| Ethylbenzene                                                                                                                                                                                   | 700                         | 700                          | 700                    | 1.5                    | 1 U                      | 1 U                      | 5 U                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 2.0 U                    | 1 U                      | 1 U                      | 1 U                      |
| Methyl tert-butyl ether                                                                                                                                                                        | 20                          | 20                           |                        | 14                     | 1 U                      | 1 U                      | 5 U                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 2.0 U                    | 1 U                      | 1 U                      | 1 U                      |
| Methylene chloride                                                                                                                                                                             | 5                           | 5                            |                        | 11                     | 1 U                      | 1 U                      | 2 J                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 2.0 U                    | 1 U                      | 1 U                      | 1 U                      |
| Styrene                                                                                                                                                                                        | 100                         | 100                          | 100                    | 1200                   | 5 U                      | 5 U                      | 5 U                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 1 U                      | 1.0 U                     | 1 UJ                     | 1.0 U                     | 1.0 U                     | 1 U                      | 2.0 U                    | 5 U                      | 5 U                      | 5 U                      |
| Tetrachloroethene                                                                                                                                                                              | 5                           | 5                            | 5                      | 11                     | 1 U                      | 1 U                      | 5 U                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                     | 0.30 J                   | 0.52 J                    | 0.48 J                    | 0.74 J                   | 2.0 U                    | 0.49 J                   | 0.39 J                   | 0.73 J                   |
| Toluene                                                                                                                                                                                        | 1000                        | 1000                         | 1000                   | 1100                   | 1 U                      | 1 U                      | 5 U                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 2.2                      | 1.0 U                     | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 2.0 U                    | 1 U                      | 1 U                      | 1 U                      |
| trans-1,2-Dichloroethene                                                                                                                                                                       | 100                         | 100                          | 100                    | 68                     | 2 U                      | 2 U                      | 5 U                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 5 U                      | 1 U                      | 2 U                      | 2 U                      | 2 U                      | 1 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 2.0 U                    | 1 U                      | 1 U                      | 2 U                      |
| trans-1,3-Dichloropropene                                                                                                                                                                      | 6.5                         | 27                           |                        | 0.47                   | 1 U                      | 1 U                      | 5 U                     | 1.0 U                     | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 2.0 U                    | 1 U                      | 1 U                      | 1 U                      |
| Trichloroethene                                                                                                                                                                                | 5                           | 5                            | 5                      | 0.49                   | 1.7                      | 1.3                      | 45                      | 5.5                       | 11                       | 1.2                       | 4.1                       | 6.8                      | 3.7 J                    | 2.7                      | 2.4                      | 1.7                      | 1.5                      | 1.5                      | 18                       | 0.85 J                    | 13                       | 4.6                       | 32 J                      | 20                       | 21                       | 25                       | 21                       | 18                       |
| Vinyl Chloride                                                                                                                                                                                 | 2                           | 2                            | 2                      | 0.019                  | 1 U                      | 1 U                      | 1.7 J                   | 0.34 J                    | 0.57 J                   | 1.0 U                     | 1 U                       | 1 U                      | 1.0 U                    | 0.22 J                   | 0.3 J                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                     | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 2.0 U                    | 1 U                      | 1 U                      | 1 U                      |
| Xylenes (Total)                                                                                                                                                                                | 10000                       | 10000                        | 10000                  | 190                    | 1 U                      | 1 U                      | 15 U                    | 3.0 U                     | 3 U                      | 2.0 U                     | 2 U                       | 2 U                      | 2.0 U                    | 6 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 3 U                      | 3.0 U                     | 3.0 U                    | 2.0 U                     | 2.0 U                     | 2 U                      | 4.0 U                    | 6 U                      | 1 U                      | 1 U                      |

Notes:  
µg/L - Micrograms per liter

U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".

J - Estimated. Detected concentration between the laboratory RL and the Method Detection Limit (MDL) shown as the approximate concentration reported by the laboratory followed by "J".  
These "J" concentrations were positively identified in the sample and are qualitatively acceptable.

PADEP MSC - Pennsylvania Department of Environmental Protection Statewide health standard  
Medium-Specific Concentration (November 2021)  
UA R - Used Aquifer Residential  
UA NR - Used Aquifer Non-Residential  
USEPA MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)  
USEPA RSL - United States Environmental Protection Agency Regional Screening Level for Residential Tap Water (TR = 1x10-6 and THQ=1.0) (November 2024)  
Color shaded cell denotes reported concentration greater than regulatory level  
(1) - Annual monitored natural attenuation (MNA) well sample  
(2) - Quarterly Technical Impracticability (TI) Area 1 sample  
(3) - Quarterly Southern Property Boundary Area (SPBA) extraction system performance monitoring sample  
(4) - Monthly SPBA extraction system performance monitoring  
(5) - Annual Northern Property Boundary Area (NPBA) plume assessment well sample

| TABLE 2.2-1<br>Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs) - Wells Outside Technical Impracticability (TI) Boundary<br>Former York Naval Ordnance Plant - York, PA |                             |                              |                        |                        |                          |                          |                          |                           |                          |                           |                           |                          |                          |                          |                          |                          |                          |                          |                           |                            |                           |                            |                            |                           |                           |                           |                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|------------------------|------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------------------------|---------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|----------------------------|---------------------------|----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Location/Identification<br>Depth (feet)<br>Sample Date                                                                                                                                         | PADEP<br>MSC UA R<br>(µg/L) | PADEP<br>MSC UA NR<br>(µg/L) | USEPA<br>MCL<br>(µg/L) | USEPA<br>RSL<br>(µg/L) | MW-20M<br>9/28/23<br>(1) | MW-20M<br>9/27/24<br>(1) | MW-20S<br>9/11/13<br>(1) | MW-20S<br>10/17/14<br>(1) | MW-20S<br>9/24/15<br>(1) | MW-20S<br>10/13/16<br>(1) | MW-20S<br>10/19/17<br>(1) | MW-20S<br>10/2/18<br>(1) | MW-20S<br>9/27/19<br>(1) | MW-20S<br>9/30/20<br>(1) | MW-20S<br>9/29/21<br>(1) | MW-20S<br>9/29/22<br>(1) | MW-20S<br>9/28/23<br>(1) | MW-20S<br>9/27/24<br>(1) | MW-142D<br>9/10/13<br>(5) | MW-142D<br>10/13/14<br>(5) | MW-142D<br>10/1/15<br>(5) | MW-142D<br>10/13/16<br>(5) | MW-142D<br>10/18/17<br>(5) | MW-142D<br>10/3/18<br>(5) | MW-142D<br>10/8/19<br>(5) | MW-142D<br>10/7/20<br>(5) | MW-142D<br>10/5/21<br>(5) |
| Volatile Organic Compound                                                                                                                                                                      |                             |                              |                        |                        |                          |                          |                          |                           |                          |                           |                           |                          |                          |                          |                          |                          |                          |                          |                           |                            |                           |                            |                            |                           |                           |                           |                           |
| 1,1,1,2-Tetrachloroethane                                                                                                                                                                      | 70                          | 70                           |                        | 0.57                   | 1 U                      | 1 U                      | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       |
| 1,1,1-Trichloroethane                                                                                                                                                                          | 200                         | 200                          | 200                    | 8000                   | 1 U                      | 1 U                      | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       |
| 1,1,2,2-Tetrachloroethane                                                                                                                                                                      | 0.84                        | 4.3                          |                        | 0.076                  | 1 U                      | 1 U                      | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       |
| 1,1,2-Trichloroethane                                                                                                                                                                          | 5                           | 5                            | 5                      | 0.28                   | 1 U                      | 1 U                      | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       |
| 1,1-Dichloroethane                                                                                                                                                                             | 31                          | 160                          |                        | 2.8                    | 1 U                      | 1 U                      | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       |
| 1,1-Dichloroethene                                                                                                                                                                             | 7                           | 7                            | 7                      | 8.2                    | 1 U                      | 1 U                      | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       |
| 1,2-Dibromoethane                                                                                                                                                                              | 0.05                        | 0.05                         | 0.05                   | 0.0075                 | 1 U                      | 1 U                      | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       |
| 1,2-Dichloroethane                                                                                                                                                                             | 5                           | 5                            | 5                      | 0.17                   | 1 U                      | 1 U                      | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       |
| 1,2-Dichloropropane                                                                                                                                                                            | 5                           | 5                            | 5                      | 0.85                   | 1 U                      | 1 U                      | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       |
| 2-Butanone                                                                                                                                                                                     | 4000                        | 4000                         |                        | 5600                   | 10 U                     | 10 U                     | 25 U                     | 5.0 UJ                    | 5.0 U                    | 5.0 U                     | 5.0 U                     | 5 U                      | 5 U                      | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 5 U                       | 5.0 U                      | 5 U                       | 5.0 U                      | 5.0 U                      | 5 U                       | 5 U                       | 10 U                      | 10 U                      |
| 2-Hexanone                                                                                                                                                                                     | 63                          | 260                          |                        | 38                     | 10 U                     | 10 U                     | 25 U                     | 5.0 UJ                    | 5.0 U                    | 5.0 U                     | 5.0 U                     | 5 U                      | 5 U                      | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 5 U                       | 5.0 U                      | 5 U                       | 5.0 U                      | 5.0 U                      | 5 U                       | 5 U                       | 10 U                      | 10 U                      |
| 4-Methyl-2-Pentanone                                                                                                                                                                           | 2800                        | 7800                         |                        | 6300                   | 10 U                     | 10 U                     | 25 U                     | 5.0 UJ                    | 5.0 U                    | 5.0 U                     | 5.0 U                     | 5 U                      | 5 U                      | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 5 U                       | 5.0 U                      | 5 U                       | 5.0 U                      | 5.0 U                      | 5 U                       | 5 U                       | 10 U                      | 10 U                      |
| Acetone                                                                                                                                                                                        | 31000                       | 88000                        |                        | 18000                  | 20 U                     | 20 U                     | 25 U                     | 5.0 UJ                    | 5.0 U                    | 5.0 U                     | 5.0 U                     | 5 U                      | 5 U                      | 20 U                     | 20 U                     | 20 U                     | 20 U                     | 20 U                     | 5 U                       | 5.0 U                      | 5 U                       | 5                          | 5.0 U                      | 5 U                       | 5 U                       | 20 U                      | 20 U                      |
| Benzene                                                                                                                                                                                        | 5                           | 5                            | 5                      | 0.46                   | 1 U                      | 1 U                      | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       |
| Bromochloromethane                                                                                                                                                                             | 90                          | 90                           |                        | 83                     | 5 U                      | 5 U                      | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 5 U                       | 5 U                       |
| Bromodichloromethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.13                   | 1 U                      | 1 U                      | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       |
| Bromoform                                                                                                                                                                                      | 80                          | 80                           |                        | 3.3                    | 4 U                      | 4 UJ                     | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 4 U                      | 4 U                      | 4 U                      | 4 U                      | 4 UJ                     | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 4 U                       | 4 U                       |
| Bromomethane                                                                                                                                                                                   | 10                          | 10                           |                        | 7.5                    | 1 U                      | 1 U                      | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                      | 1 UJ                      | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       |
| Carbon Disulfide                                                                                                                                                                               | 1500                        | 6200                         |                        | 810                    | 5 U                      | 5 U                      | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 5 U                       | 5 U                       |
| Carbon Tetrachloride                                                                                                                                                                           | 5                           | 5                            | 5                      | 0.46                   | 1 U                      | 1 U                      | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       |
| Chlorobenzene                                                                                                                                                                                  | 100                         | 100                          | 100                    | 78                     | 1 U                      | 1 U                      | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       |
| Chlorodibromomethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.87                   | 1 U                      | 1 U                      | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       |
| Chloroethane                                                                                                                                                                                   | 21000                       | 88000                        |                        | 8300                   | 1 U                      | 1 U                      | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                      | 1 UJ                      | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       |
| Chloroform                                                                                                                                                                                     | 80                          | 80                           |                        | 0.22                   | 0.49 J                   | 0.34 J                   | 2.8 J                    | 1.7 J                     | 1.8                      | 1.6                       | 1.4                       | 0.86 J                   | 1 U                      | 0.84 J                   | 0.48 J                   | 0.62 J                   | 0.64 J                   | 0.48 J                   | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       |
| Chloromethane                                                                                                                                                                                  | 30                          | 30                           |                        | 190                    | 2 U                      | 2 U                      | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 2 UJ                     | 2 U                      | 2 U                      | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       |
| cis-1,2-Dichloroethene                                                                                                                                                                         | 70                          | 70                           | 70                     | 25                     | 1 U                      | 1 U                      | 5 U                      | 1.6 J                     | 1.2                      | 1                         | 0.95 J                    | 2.2                      | 1 U                      | 0.6 J                    | 1                        | 1 U                      | 0.52 J                   | 1 U                      | 5.1                       | 6.2                        | 2.6                       | 0.78 J                     | 0.79 J                     | 0.75 J                    | 0.97 J                    | 0.81 J                    | 0.75 J                    |
| cis-1,3-Dichloropropene                                                                                                                                                                        | 6.5                         | 27                           |                        | 0.47                   | 1 U                      | 1 U                      | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       |
| Ethylbenzene                                                                                                                                                                                   | 700                         | 700                          | 700                    | 1.5                    | 1 U                      | 1 U                      | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       |
| Methyl tert-butyl ether                                                                                                                                                                        | 20                          | 20                           |                        | 14                     | 1 U                      | 1 U                      | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       |
| Methylene chloride                                                                                                                                                                             | 5                           | 5                            |                        | 11                     | 1 U                      | 1 U                      | 3.8 U                    | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       |
| Styrene                                                                                                                                                                                        | 100                         | 100                          | 100                    | 1200                   | 5 U                      | 5 U                      | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 5 U                       | 5 U                       |
| Tetrachloroethene                                                                                                                                                                              | 5                           | 5                            | 5                      | 11                     | 0.69 J                   | 0.51 J                   | 2.7 J                    | 5.8 J                     | 3.8                      | 4.3                       | 2.6                       | 17                       | 2.8                      | 2.2                      | 16                       | 1.4                      | 1.6                      | 1.7                      | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       |
| Toluene                                                                                                                                                                                        | 1000                        | 1000                         | 1000                   | 1100                   | 1 U                      | 1 U                      | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 0.29 J                    | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       |
| trans-1,2-Dichloroethene                                                                                                                                                                       | 100                         | 100                          | 100                    | 68                     | 2 U                      | 2 U                      | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 2 U                      | 2 U                      | 2 U                      | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 5 U                       | 1 U                       |
| trans-1,3-Dichloropropene                                                                                                                                                                      | 6.5                         | 27                           |                        | 0.47                   | 1 U                      | 1 U                      | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       |
| Trichloroethene                                                                                                                                                                                | 5                           | 5                            | 5                      | 0.49                   | 15                       | 14                       | 90                       | 110 J                     | 81                       | 48                        | 32                        | 130                      | 14                       | 17                       | 68                       | 11                       | 14                       | 7.7                      | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       |
| Vinyl Chloride                                                                                                                                                                                 | 2                           | 2                            | 2                      | 0.019                  | 1 U                      | 1 U                      | 5 U                      | 1.0 UJ                    | 1.0 U                    | 1.0 U                     | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                      | 1 UJ                      | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       |
| Xylenes (Total)                                                                                                                                                                                | 10000                       | 10000                        | 10000                  | 190                    | 1 U                      | 1 U                      | 15 U                     | 3.0 U                     | 3.0 U                    | 2.0 U                     | 2.0 U                     | 2 U                      | 2 U                      | 6 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 3 U                       | 3.0 U                      | 3 U                       | 2.0 U                      | 2.0 U                      | 2 U                       | 2 U                       | 6 U                       | 1 U                       |

Notes:  
µg/L - Micrograms per liter

U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".

J - Estimated. Detected concentration between the laboratory RL and the Method Detection Limit (MDL) shown as the approximate concentration reported by the laboratory followed by "J". These "J" concentrations were positively identified in the sample and are qualitatively acceptable.

PADEP MSC - Pennsylvania Department of Environmental Protection Statewide health standard  
Medium-Specific Concentration (November 2021)  
UA R - Used Aquifer Residential  
UA NR - Used Aquifer Non-Residential  
USEPA MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)  
USEPA RSL - United States Environmental Protection Agency Regional Screening Level for Residential Tap Water (TR = 1x10-6 and THQ=1.0) (November 2024)  
Color shaded cell denotes reported concentration greater than regulatory level  
(1) - Annual monitored natural attenuation (MNA) well sample  
(2) - Quarterly Technical Impracticability (TI) Area 1 sample  
(3) - Quarterly Southern Property Boundary Area (SPBA) extraction system performance monitoring sample  
(4) - Monthly SPBA extraction system performance monitoring  
(5) - Annual Northern Property Boundary Area (NPBA) plume assessment well sample



| TABLE 2.2-1<br>Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs) - Wells Outside Technical Impracticability (TI) Boundary<br>Former York Naval Ordnance Plant - York, PA |                             |                              |                        |                        |                           |                           |                           |                           |                            |                           |                            |                            |                           |                           |                           |                           |                           |                           |                           |                          |                            |                           |                           |                            |                           |                           |                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|------------------------|------------------------|---------------------------|---------------------------|---------------------------|---------------------------|----------------------------|---------------------------|----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--------------------------|----------------------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|---------------------------|
| Location/Identification<br>Depth (feet)<br>Sample Date                                                                                                                                         | PADEP<br>MSC UA R<br>(µg/L) | PADEP<br>MSC UA NR<br>(µg/L) | USEPA<br>MCL<br>(µg/L) | USEPA<br>RSL<br>(µg/L) | MW-142D<br>9/30/22<br>(5) | MW-142D<br>10/5/23<br>(5) | MW-142D<br>10/8/24<br>(5) | MW-142S<br>9/10/13<br>(5) | MW-142S<br>10/13/14<br>(5) | MW-142S<br>10/1/15<br>(5) | MW-142S<br>10/13/16<br>(5) | MW-142S<br>10/18/17<br>(5) | MW-142S<br>10/3/18<br>(5) | MW-142S<br>10/7/19<br>(5) | MW-142S<br>10/5/20<br>(5) | MW-142S<br>10/7/21<br>(5) | MW-142S<br>9/29/22<br>(5) | MW-142S<br>10/4/23<br>(5) | MW-142S<br>10/7/24<br>(5) | MW-143D<br>9/9/13<br>(1) | MW-143D<br>10/13/14<br>(1) | MW-143D<br>9/30/15<br>(1) | MW-143D<br>10/7/16<br>(1) | MW-143D<br>10/18/17<br>(1) | MW-143D<br>10/3/18<br>(1) | MW-143D<br>9/27/19<br>(1) | MW-143D<br>10/6/20<br>(1) |
| Volatile Organic Compound                                                                                                                                                                      |                             |                              |                        |                        |                           |                           |                           |                           |                            |                           |                            |                            |                           |                           |                           |                           |                           |                           |                           |                          |                            |                           |                           |                            |                           |                           |                           |
| 1,1,1,2-Tetrachloroethane                                                                                                                                                                      | 70                          | 70                           |                        | 0.57                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1 UJ                      | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       |
| 1,1,1-Trichloroethane                                                                                                                                                                          | 200                         | 200                          | 200                    | 8000                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       |
| 1,1,2,2-Tetrachloroethane                                                                                                                                                                      | 0.84                        | 4.3                          |                        | 0.076                  | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       |
| 1,1,2-Trichloroethane                                                                                                                                                                          | 5                           | 5                            | 5                      | 0.28                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       |
| 1,1-Dichloroethane                                                                                                                                                                             | 31                          | 160                          |                        | 2.8                    | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       |
| 1,1-Dichloroethene                                                                                                                                                                             | 7                           | 7                            | 7                      | 8.2                    | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       |
| 1,2-Dibromoethane                                                                                                                                                                              | 0.05                        | 0.05                         | 0.05                   | 0.0075                 | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       |
| 1,2-Dichloroethane                                                                                                                                                                             | 5                           | 5                            | 5                      | 0.17                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       |
| 1,2-Dichloropropane                                                                                                                                                                            | 5                           | 5                            | 5                      | 0.85                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       |
| 2-Butanone                                                                                                                                                                                     | 4000                        | 4000                         |                        | 5600                   | 10 U                      | 10 U                      | 10 U                      | 5 U                       | 5.0 U                      | 5 U                       | 5.0 U                      | 5.0 U                      | 5 U                       | 5 U                       | 10 U                      | 10 U                      | 10 U                      | 10 U                      | 10 U                      | 5 U                      | 5.0 U                      | 5.0 U                     | 5.0 U                     | 5.0 U                      | 5 U                       | 5 U                       | 10 U                      |
| 2-Hexanone                                                                                                                                                                                     | 63                          | 260                          |                        | 38                     | 10 U                      | 10 U                      | 10 U                      | 5 U                       | 5.0 U                      | 5 U                       | 5.0 U                      | 5.0 U                      | 5 U                       | 5 U                       | 10 U                      | 10 U                      | 10 U                      | 10 U                      | 10 U                      | 5 U                      | 5.0 U                      | 5 UJ                      | 5.0 U                     | 5.0 U                      | 5 U                       | 5 U                       | 10 U                      |
| 4-Methyl-2-Pentanone                                                                                                                                                                           | 2800                        | 7800                         |                        | 6300                   | 10 U                      | 10 U                      | 10 U                      | 5 U                       | 5.0 U                      | 5 U                       | 5.0 U                      | 5.0 U                      | 5 U                       | 5 U                       | 10 U                      | 10 U                      | 10 U                      | 10 U                      | 10 U                      | 5 U                      | 5.0 U                      | 5.0 U                     | 5.0 U                     | 5.0 U                      | 5 U                       | 5 U                       | 10 U                      |
| Acetone                                                                                                                                                                                        | 31000                       | 88000                        |                        | 18000                  | 20 U                      | 20 U                      | 20 U                      | 5 U                       | 5.0 U                      | 5 U                       | 4.2 J                      | 5.0 U                      | 5 U                       | 5 U                       | 20 U                      | 20 U                      | 20 U                      | 20 U                      | 20 U                      | 5 U                      | 5.0 U                      | 5.0 U                     | 5.0 U                     | 5.0 U                      | 5 U                       | 5 U                       | 20 U                      |
| Benzene                                                                                                                                                                                        | 5                           | 5                            | 5                      | 0.46                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       |
| Bromochloromethane                                                                                                                                                                             | 90                          | 90                           |                        | 83                     | 5 U                       | 5 U                       | 5 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 5 U                       | 5 U                       | 5 U                       | 5 U                       | 5 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 5 U                       |
| Bromodichloromethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.13                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       |
| Bromoform                                                                                                                                                                                      | 80                          | 80                           |                        | 3.3                    | 4 U                       | 4 U                       | 4 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 4 U                       | 4 U                       | 4 U                       | 4 U                       | 4 U                       | 1 U                      | 1.0 U                      | 1 UJ                      | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 4 U                       |
| Bromomethane                                                                                                                                                                                   | 10                          | 10                           |                        | 7.5                    | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1.0 U                      | 1 UJ                      | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 UJ                      | 1 U                      | 1.0 U                      | 1 UJ                      | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       |
| Carbon Disulfide                                                                                                                                                                               | 1500                        | 6200                         |                        | 810                    | 5 U                       | 5 U                       | 5 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 5 U                       | 5 U                       | 5 U                       | 5 U                       | 5 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 5 U                       |
| Carbon Tetrachloride                                                                                                                                                                           | 5                           | 5                            | 5                      | 0.46                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       |
| Chlorobenzene                                                                                                                                                                                  | 100                         | 100                          | 100                    | 78                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       |
| Chlorodibromomethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.87                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       |
| Chloroethane                                                                                                                                                                                   | 21000                       | 88000                        |                        | 8300                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1.0 U                      | 1 UJ                      | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 UJ                      | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       |
| Chloroform                                                                                                                                                                                     | 80                          | 80                           |                        | 0.22                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       |
| Chloromethane                                                                                                                                                                                  | 30                          | 30                           |                        | 190                    | 2 U                       | 2 U                       | 2 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 2 UJ                      | 2 U                       | 2 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       |
| cis-1,2-Dichloroethene                                                                                                                                                                         | 70                          | 70                           | 70                     | 25                     | 0.51 J                    | 0.63 J                    | 0.57 J                    | 1.1                       | 1.6                        | 1.9                       | 2.6                        | 2.4                        | 8.7                       | 7.5                       | 5.8                       | 5.2                       | 6.2                       | 5.8                       | 7.1                       | 0.25 J                   | 0.34 J                     | 0.39 J                    | 0.66 J                    | 0.74 J                     | 1.5                       | 1.1                       | 1.8                       |
| cis-1,3-Dichloropropene                                                                                                                                                                        | 6.5                         | 27                           |                        | 0.47                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 UJ                      | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       |
| Ethylbenzene                                                                                                                                                                                   | 700                         | 700                          | 700                    | 1.5                    | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       |
| Methyl tert-butyl ether                                                                                                                                                                        | 20                          | 20                           |                        | 14                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       |
| Methylene chloride                                                                                                                                                                             | 5                           | 5                            |                        | 11                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       |
| Styrene                                                                                                                                                                                        | 100                         | 100                          | 100                    | 1200                   | 5 U                       | 5 U                       | 5 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 5 U                       | 5 U                       | 5 U                       | 5 U                       | 5 U                       | 1 U                      | 1.0 U                      | 1 UJ                      | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 5 U                       |
| Tetrachloroethene                                                                                                                                                                              | 5                           | 5                            | 5                      | 11                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       |
| Toluene                                                                                                                                                                                        | 1000                        | 1000                         | 1000                   | 1100                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       |
| trans-1,2-Dichloroethene                                                                                                                                                                       | 100                         | 100                          | 100                    | 68                     | 2 U                       | 2 U                       | 2 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 5 U                       | 1 U                       | 2 U                       | 2 U                       | 2 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 5 U                       |
| trans-1,3-Dichloropropene                                                                                                                                                                      | 6.5                         | 27                           |                        | 0.47                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1.0 U                      | 1 U                       | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       |
| Trichloroethene                                                                                                                                                                                | 5                           | 5                            | 5                      | 0.49                   | 1 U                       | 1 U                       | 1 U                       | 0.15 J                    | 1.0 U                      | 0.15 J                    | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       |
| Vinyl Chloride                                                                                                                                                                                 | 2                           | 2                            | 2                      | 0.019                  | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1.0 U                      | 1 UJ                      | 1.0 U                      | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 UJ                      | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1 U                       | 1 U                       |
| Xylenes (Total)                                                                                                                                                                                | 10000                       | 10000                        | 10000                  | 190                    | 1 U                       | 1 U                       | 1 U                       | 3 U                       | 3.0 U                      | 3 U                       | 2.0 U                      | 2.0 U                      | 2 U                       | 2 U                       | 6 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 3 U                      | 3.0 U                      | 3.0 U                     | 2.0 U                     | 2.0 U                      | 2 U                       | 2 U                       | 6 U                       |

Notes:  
µg/L - Micrograms per liter

U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".

J - Estimated. Detected concentration between the laboratory RL and the Method Detection Limit (MDL) shown as the approximate concentration reported by the laboratory followed by "J". These "J" concentrations were positively identified in the sample and are qualitatively acceptable.

PADEP MSC - Pennsylvania Department of Environmental Protection Statewide health standard Medium-Specific Concentration (November 2021)  
UA R - Used Aquifer Residential  
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USEPA MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)  
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Color shaded cell denotes reported concentration greater than regulatory level  
(1) - Annual monitored natural attenuation (MNA) well sample  
(2) - Quarterly Technical Impracticability (TI) Area 1 sample  
(3) - Quarterly Southern Property Boundary Area (SPBA) extraction system performance monitoring sample  
(4) - Monthly SPBA extraction system performance monitoring  
(5) - Annual Northern Property Boundary Area (NPBA) plume assessment well sample

| TABLE 2.2-1<br>Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs) - Wells Outside Technical Impracticability (TI) Boundary<br>Former York Naval Ordnance Plant - York, PA |                             |                              |                        |                        |                           |                           |                           |                           |                          |                            |                           |                           |                            |                           |                           |                           |                           |                           |                           |                           |                         |                          |                         |                          |                          |                         |                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|------------------------|------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--------------------------|----------------------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-------------------------|--------------------------|-------------------------|--------------------------|--------------------------|-------------------------|-------------------------|
| Location/Identification<br>Depth (feet)<br>Sample Date                                                                                                                                         | PADEP<br>MSC UA R<br>(µg/L) | PADEP<br>MSC UA NR<br>(µg/L) | USEPA<br>MCL<br>(µg/L) | USEPA<br>RSL<br>(µg/L) | MW-143D<br>10/4/21<br>(1) | MW-143D<br>10/3/22<br>(1) | MW-143D<br>10/6/23<br>(1) | MW-143D<br>10/1/24<br>(1) | MW-143S<br>9/9/13<br>(1) | MW-143S<br>10/15/14<br>(1) | MW-143S<br>9/30/15<br>(1) | MW-143S<br>10/7/16<br>(1) | MW-143S<br>10/18/17<br>(1) | MW-143S<br>10/3/18<br>(1) | MW-143S<br>10/3/19<br>(1) | MW-143S<br>10/6/20<br>(1) | MW-143S<br>10/4/21<br>(1) | MW-143S<br>10/4/22<br>(1) | MW-143S<br>10/3/23<br>(1) | MW-143S<br>10/7/24<br>(1) | CW-1A<br>9/16/13<br>(1) | CW-1A<br>10/14/14<br>(1) | CW-1A<br>10/6/15<br>(1) | CW-1A<br>10/26/16<br>(1) | CW-1A<br>10/31/17<br>(1) | CW-1A<br>10/1/18<br>(1) | CW-1A<br>9/27/19<br>(1) |
| Volatile Organic Compound                                                                                                                                                                      |                             |                              |                        |                        |                           |                           |                           |                           |                          |                            |                           |                           |                            |                           |                           |                           |                           |                           |                           |                           |                         |                          |                         |                          |                          |                         |                         |
| 1,1,1,2-Tetrachloroethane                                                                                                                                                                      | 70                          | 70                           |                        | 0.57                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1 UJ                      | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 2 U                     |
| 1,1,1-Trichloroethane                                                                                                                                                                          | 200                         | 200                          | 200                    | 8000                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 2 U                     |
| 1,1,2,2-Tetrachloroethane                                                                                                                                                                      | 0.84                        | 4.3                          |                        | 0.076                  | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 2 U                     |
| 1,1,2-Trichloroethane                                                                                                                                                                          | 5                           | 5                            | 5                      | 0.28                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 2 UJ                    |
| 1,1-Dichloroethane                                                                                                                                                                             | 31                          | 160                          |                        | 2.8                    | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 2 U                     |
| 1,1-Dichloroethene                                                                                                                                                                             | 7                           | 7                            | 7                      | 8.2                    | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 UJ                    | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 2 U                     |
| 1,2-Dibromoethane                                                                                                                                                                              | 0.05                        | 0.05                         | 0.05                   | 0.0075                 | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 2 U                     |
| 1,2-Dichloroethane                                                                                                                                                                             | 5                           | 5                            | 5                      | 0.17                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 2 U                     |
| 1,2-Dichloropropane                                                                                                                                                                            | 5                           | 5                            | 5                      | 0.85                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 2 U                     |
| 2-Butanone                                                                                                                                                                                     | 4000                        | 4000                         |                        | 5600                   | 10 U                      | 10 U                      | 10 U                      | 10 U                      | 5 U                      | 5.0 U                      | 5.0 U                     | 5.0 U                     | 5.0 U                      | 5 U                       | 5.0 U                     | 10 U                      | 10 U                      | 10 U                      | 10 U                      | 10 U                      | 5 U                     | 5.0 U                    | 5 U                     | 5 U                      | 5 U                      | 5 U                     | 10 U                    |
| 2-Hexanone                                                                                                                                                                                     | 63                          | 260                          |                        | 38                     | 10 U                      | 10 U                      | 10 U                      | 10 U                      | 5 U                      | 5.0 U                      | 5 UJ                      | 5.0 U                     | 5.0 U                      | 5 U                       | 5.0 U                     | 10 U                      | 10 U                      | 10 U                      | 10 U                      | 10 U                      | 5 U                     | 5.0 U                    | 5 U                     | 5 U                      | 5 U                      | 5 U                     | 10 U                    |
| 4-Methyl-2-Pentanone                                                                                                                                                                           | 2800                        | 7800                         |                        | 6300                   | 10 U                      | 10 U                      | 10 U                      | 10 U                      | 5 U                      | 5.0 U                      | 5.0 U                     | 5.0 U                     | 5.0 U                      | 5 U                       | 5.0 U                     | 10 U                      | 10 U                      | 10 U                      | 10 U                      | 10 U                      | 5 U                     | 5.0 U                    | 5 U                     | 5 U                      | 5 U                      | 5 U                     | 10 UJ                   |
| Acetone                                                                                                                                                                                        | 31000                       | 88000                        |                        | 18000                  | 20 U                      | 20 U                      | 20 U                      | 20 U                      | 5 U                      | 5.0 U                      | 5.0 U                     | 5.0 U                     | 5.0 U                      | 5 U                       | 3.6 J                     | 20 U                      | 20 U                      | 20 U                      | 20 U                      | 20 U                      | 5 U                     | 5.0 U                    | 5 U                     | 5 U                      | 5 U                      | 5 U                     | 10 U                    |
| Benzene                                                                                                                                                                                        | 5                           | 5                            | 5                      | 0.46                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 2 U                     |
| Bromochloromethane                                                                                                                                                                             | 90                          | 90                           |                        | 83                     | 5 U                       | 5 U                       | 5 U                       | 5 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 5 U                       | 5 U                       | 5 U                       | 5 U                       | 5 U                       | 1 U                     | 1.0 U                    | 1 UJ                    | 1 U                      | 1 U                      | 1 U                     | 2 U                     |
| Bromodichloromethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.13                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 2 U                     |
| Bromoform                                                                                                                                                                                      | 80                          | 80                           |                        | 3.3                    | 4 U                       | 4 U                       | 4 U                       | 4 U                       | 1 U                      | 1.0 U                      | 1 UJ                      | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 4 U                       | 4 U                       | 4 U                       | 4 U                       | 4 U                       | 1 U                     | 1.0 U                    | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 2 U                     |
| Bromomethane                                                                                                                                                                                   | 10                          | 10                           |                        | 7.5                    | 1 U                       | 1 U                       | 1 U                       | 1 UJ                      | 1 U                      | 1.0 U                      | 1 UJ                      | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 UJ                    | 1 U                      | 1.0 U                   | 1 UJ                     | 1 U                      | 1 U                     | 2 UJ                    |
| Carbon Disulfide                                                                                                                                                                               | 1500                        | 6200                         |                        | 810                    | 5 U                       | 5 U                       | 5 U                       | 5 UJ                      | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 5 U                       | 5 U                       | 5 U                       | 5 U                       | 5 U                       | 1 U                     | 1.0 U                    | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 2 U                     |
| Carbon Tetrachloride                                                                                                                                                                           | 5                           | 5                            | 5                      | 0.46                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 2 U                     |
| Chlorobenzene                                                                                                                                                                                  | 100                         | 100                          | 100                    | 78                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 2 U                     |
| Chlorodibromomethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.87                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 2 U                     |
| Chloroethane                                                                                                                                                                                   | 21000                       | 88000                        |                        | 8300                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 UJ                    | 1 U                      | 1.0 U                   | 1 UJ                     | 1 U                      | 1 U                     | 2 U                     |
| Chloroform                                                                                                                                                                                     | 80                          | 80                           |                        | 0.22                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 0.38 J                  | 0.44 J                   | 0.31 J                  | 0.44 J                   | 1 U                      | 1 U                     | 2 U                     |
| Chloromethane                                                                                                                                                                                  | 30                          | 30                           |                        | 190                    | 1 U                       | 2 U                       | 2 U                       | 2 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 UJ                    | 1 U                       | 1 U                       | 2 U                       | 2 U                       | 2 U                       | 1 U                     | 1.0 U                    | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 2 U                     |
| cis-1,2-Dichloroethene                                                                                                                                                                         | 70                          | 70                           | 70                     | 25                     | 2.2                       | 2.7                       | 3.0                       | 3.7                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 0.31 J                  | 0.51 J                   | 1 U                     | 0.73 J                   | 1 U                      | 1 U                     | 2 U                     |
| cis-1,3-Dichloropropene                                                                                                                                                                        | 6.5                         | 27                           |                        | 0.47                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 UJ                      | 1 U                     | 1.0 U                    | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 2 UJ                    |
| Ethylbenzene                                                                                                                                                                                   | 700                         | 700                          | 700                    | 1.5                    | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 2 U                     |
| Methyl tert-butyl ether                                                                                                                                                                        | 20                          | 20                           |                        | 14                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 2 UJ                    |
| Methylene chloride                                                                                                                                                                             | 5                           | 5                            |                        | 11                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 2 UJ                    |
| Styrene                                                                                                                                                                                        | 100                         | 100                          | 100                    | 1200                   | 5 U                       | 5 U                       | 5 U                       | 5 U                       | 1 U                      | 1.0 U                      | 1 UJ                      | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 5 U                       | 5 U                       | 5 U                       | 5 U                       | 5 U                       | 1 U                     | 1.0 U                    | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 2 U                     |
| Tetrachloroethene                                                                                                                                                                              | 5                           | 5                            | 5                      | 11                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1.1                      | 0.84 J                     | 1.0 U                     | 0.76 J                    | 0.57 J                     | 0.55 J                    | 0.51 J                    | 1.1                       | 0.83 J                    | 0.59 J                    | 0.78 J                    | 0.82 J                    | 1.7                     | 2.8                      | 1.9                     | 2.3                      | 1.8                      | 1.8                     | 1.5 J                   |
| Toluene                                                                                                                                                                                        | 1000                        | 1000                         | 1000                   | 1100                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 2 U                     |
| trans-1,2-Dichloroethene                                                                                                                                                                       | 100                         | 100                          | 100                    | 68                     | 1 U                       | 2 U                       | 2 U                       | 2 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 5 U                       | 1 U                       | 2 U                       | 2 U                       | 2 U                       | 1 U                     | 1.0 U                    | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 2 U                     |
| trans-1,3-Dichloropropene                                                                                                                                                                      | 6.5                         | 27                           |                        | 0.47                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 2 U                     |
| Trichloroethene                                                                                                                                                                                | 5                           | 5                            | 5                      | 0.49                   | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 3.0                      | 1.9                        | 2.2                       | 1.3                       | 1.1                        | 1.1                       | 1.0 U                     | 0.47 J                    | 0.46 J                    | 1 U                       | 1 U                       | 1 U                       | 26                      | 31                       | 28                      | 56                       | 53                       | 41                      | 36 J                    |
| Vinyl Chloride                                                                                                                                                                                 | 2                           | 2                            | 2                      | 0.019                  | 1 U                       | 1 U                       | 1 U                       | 1 UJ                      | 1 U                      | 1.0 U                      | 1.0 U                     | 1.0 U                     | 1.0 U                      | 1 U                       | 1.0 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 UJ                      | 1 U                     | 1.0 U                    | 1 UJ                    | 1 U                      | 1 U                      | 1 U                     | 2 U                     |
| Xylenes (Total)                                                                                                                                                                                | 10000                       | 10000                        | 10000                  | 190                    | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 3 U                      | 3.0 U                      | 3.0 U                     | 2.0 U                     | 2.0 U                      | 2 U                       | 2.0 U                     | 6 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 3 U                     | 3.0 U                    | 3 U                     | 2 U                      | 2 U                      | 2 U                     | 4 U                     |

Notes:  
µg/L - Micrograms per liter

U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".

J - Estimated. Detected concentration between the laboratory RL and the Method Detection Limit (MDL) shown as the approximate concentration reported by the laboratory followed by "J". These "J" concentrations were positively identified in the sample and are qualitatively acceptable.

PADEP MSC - Pennsylvania Department of Environmental Protection Statewide health standard Medium-Specific Concentration (November 2021)  
UA R - Used Aquifer Residential  
UA NR - Used Aquifer Non-Residential  
USEPA MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)  
USEPA RSL - United States Environmental Protection Agency Regional Screening Level for Residential Tap Water (TR = 1x10-6 and THQ=1.0) (November 2024)  
Color shaded cell denotes reported concentration greater than regulatory level  
(1) - Annual monitored natural attenuation (MNA) well sample  
(2) - Quarterly Technical Impracticability (TI) Area 1 sample  
(3) - Quarterly Southern Property Boundary Area (SPBA) extraction system performance monitoring sample  
(4) - Monthly SPBA extraction system performance monitoring  
(5) - Annual Northern Property Boundary Area (NPBA) plume assessment well sample

| TABLE 2.2-1<br>Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs) - Wells Outside Technical Impracticability (TI) Boundary<br>Former York Naval Ordnance Plant - York, PA |                             |                              |                        |                        |                         |                         |                         |                         |                         |                        |                         |                        |                         |                         |                        |                        |                        |                        |                        |                        |                        |                        |                         |                        |                        |                         |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|------------------------|-------------------------|------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|------------------------|------------------------|-------------------------|------------------------|
| Location/Identification<br>Depth (feet)<br>Sample Date                                                                                                                                         | PADEP<br>MSC UA R<br>(µg/L) | PADEP<br>MSC UA NR<br>(µg/L) | USEPA<br>MCL<br>(µg/L) | USEPA<br>RSL<br>(µg/L) | CW-1A<br>10/2/20<br>(1) | CW-1A<br>9/30/21<br>(1) | CW-1A<br>9/28/22<br>(1) | CW-1A<br>10/2/23<br>(1) | CW-1A<br>9/30/24<br>(1) | CW-2<br>9/16/13<br>(1) | CW-2<br>10/14/14<br>(1) | CW-2<br>10/7/15<br>(1) | CW-2<br>10/26/16<br>(1) | CW-2<br>10/24/17<br>(1) | CW-2<br>10/3/18<br>(1) | CW-2<br>10/1/19<br>(1) | CW-2<br>10/2/20<br>(1) | CW-2<br>9/29/21<br>(1) | CW-2<br>9/28/22<br>(1) | CW-2<br>10/2/23<br>(1) | CW-2<br>10/1/24<br>(1) | RW-2<br>9/10/13<br>(5) | RW-2<br>10/20/14<br>(5) | RW-2<br>9/16/15<br>(5) | RW-2<br>10/3/16<br>(5) | RW-2<br>10/17/17<br>(5) | RW-2<br>10/2/18<br>(5) |
| Volatile Organic Compound                                                                                                                                                                      |                             |                              |                        |                        |                         |                         |                         |                         |                         |                        |                         |                        |                         |                         |                        |                        |                        |                        |                        |                        |                        |                        |                         |                        |                        |                         |                        |
| 1,1,1,2-Tetrachloroethane                                                                                                                                                                      | 70                          | 70                           |                        | 0.57                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| 1,1,1-Trichloroethane                                                                                                                                                                          | 200                         | 200                          | 200                    | 8000                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| 1,1,2,2-Tetrachloroethane                                                                                                                                                                      | 0.84                        | 4.3                          |                        | 0.076                  | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| 1,1,2-Trichloroethane                                                                                                                                                                          | 5                           | 5                            | 5                      | 0.28                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| 1,1-Dichloroethane                                                                                                                                                                             | 31                          | 160                          |                        | 2.8                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| 1,1-Dichloroethene                                                                                                                                                                             | 7                           | 7                            | 7                      | 8.2                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| 1,2-Dibromoethane                                                                                                                                                                              | 0.05                        | 0.05                         | 0.05                   | 0.0075                 | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| 1,2-Dichloroethane                                                                                                                                                                             | 5                           | 5                            | 5                      | 0.17                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| 1,2-Dichloropropane                                                                                                                                                                            | 5                           | 5                            | 5                      | 0.85                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| 2-Butanone                                                                                                                                                                                     | 4000                        | 4000                         |                        | 5600                   | 10 U                    | 10 U                    | 10 U                    | 10 U                    | 10 U                    | 5 U                    | 5.0 U                   | 5 U                    | 5 U                     | 5 U                     | 5 U                    | 5.0 U                  | 10 U                   | 10 U                   | 10 U                   | 10 U                   | 10 U                   | 5 U                    | 5.0 U                   | 5.0 U                  | 5.0 U                  | 5 U                     | 5 U                    |
| 2-Hexanone                                                                                                                                                                                     | 63                          | 260                          |                        | 38                     | 10 U                    | 10 U                    | 10 U                    | 10 U                    | 10 U                    | 5 U                    | 5.0 U                   | 5 U                    | 5 U                     | 5 U                     | 5 U                    | 5.0 U                  | 10 U                   | 10 U                   | 10 U                   | 10 U                   | 10 U                   | 5 U                    | 5.0 U                   | 5.0 U                  | 5.0 U                  | 5 U                     | 5 U                    |
| 4-Methyl-2-Pentanone                                                                                                                                                                           | 2800                        | 7800                         |                        | 6300                   | 10 U                    | 10 U                    | 10 U                    | 10 U                    | 10 U                    | 5 U                    | 5.0 U                   | 5 U                    | 5 U                     | 5 U                     | 5 U                    | 5.0 U                  | 10 U                   | 10 U                   | 10 U                   | 10 U                   | 10 U                   | 5 U                    | 5.0 U                   | 5.0 U                  | 5.0 U                  | 5 U                     | 5 U                    |
| Acetone                                                                                                                                                                                        | 31000                       | 88000                        |                        | 18000                  | 20 U                    | 20 U                    | 20 U                    | 20 U                    | 20 U                    | 5 U                    | 5.0 U                   | 5 U                    | 5 U                     | 5 U                     | 5 U                    | 5.0 U                  | 0.81 J                 | 20 U                   | 20 U                   | 20 U                   | 20 U                   | 5 U                    | 5.0 U                   | 5.0 U                  | 4.5 J                  | 5 U                     | 5 U                    |
| Benzene                                                                                                                                                                                        | 5                           | 5                            | 5                      | 0.46                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| Bromochloromethane                                                                                                                                                                             | 90                          | 90                           |                        | 83                     | 5 U                     | 5 U                     | 5 U                     | 5 U                     | 5 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| Bromodichloromethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.13                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| Bromoform                                                                                                                                                                                      | 80                          | 80                           |                        | 3.3                    | 4 U                     | 4 U                     | 4 U                     | 4 U                     | 4 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 4 U                    | 4 U                    | 4 U                    | 4 U                    | 4 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| Bromomethane                                                                                                                                                                                   | 10                          | 10                           |                        | 7.5                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| Carbon Disulfide                                                                                                                                                                               | 1500                        | 6200                         |                        | 810                    | 5 U                     | 5 U                     | 5 U                     | 5 U                     | 5 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| Carbon Tetrachloride                                                                                                                                                                           | 5                           | 5                            | 5                      | 0.46                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| Chlorobenzene                                                                                                                                                                                  | 100                         | 100                          | 100                    | 78                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| Chlorodibromomethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.87                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| Chloroethane                                                                                                                                                                                   | 21000                       | 88000                        |                        | 8300                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| Chloroform                                                                                                                                                                                     | 80                          | 80                           |                        | 0.22                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1.0 U                   | 0.17 J                 | 0.23 J                 | 1.0 U                   | 1 U                    |
| Chloromethane                                                                                                                                                                                  | 30                          | 30                           |                        | 190                    | 1 U                     | 1 U                     | 2 U                     | 2 U                     | 2 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 2 U                    | 2 U                    | 2 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| cis-1,2-Dichloroethene                                                                                                                                                                         | 70                          | 70                           | 70                     | 25                     | 0.31 J                  | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 0.87 J                 | 2.6                     | 0.78 J                 | 6.1                     | 1 U                     | 5.7                    | 1.1                    | 0.86 J                 | 1 U                    | 2.4                    | 3.9                    | 3.3                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| cis-1,3-Dichloropropene                                                                                                                                                                        | 6.5                         | 27                           |                        | 0.47                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| Ethylbenzene                                                                                                                                                                                   | 700                         | 700                          | 700                    | 1.5                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| Methyl tert-butyl ether                                                                                                                                                                        | 20                          | 20                           |                        | 14                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| Methylene chloride                                                                                                                                                                             | 5                           | 5                            |                        | 11                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| Styrene                                                                                                                                                                                        | 100                         | 100                          | 100                    | 1200                   | 5 U                     | 5 U                     | 5 U                     | 5 U                     | 5 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| Tetrachloroethene                                                                                                                                                                              | 5                           | 5                            | 5                      | 11                     | 1.2                     | 0.65 J                  | 1.8                     | 0.94 J                  | 1.9                     | 3.0                    | 1.4                     | 3.2                    | 0.97 J                  | 0.91 J                  | 1.3                    | 1.1                    | 1.0                    | 2.4                    | 0.98 J                 | 0.52 J                 | 0.52 J                 | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| Toluene                                                                                                                                                                                        | 1000                        | 1000                         | 1000                   | 1100                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 0.26 J                 | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| trans-1,2-Dichloroethene                                                                                                                                                                       | 100                         | 100                          | 100                    | 68                     | 5 U                     | 1 U                     | 2 U                     | 2 U                     | 2 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 5 U                    | 1 U                    | 2 U                    | 2 U                    | 2 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| trans-1,3-Dichloropropene                                                                                                                                                                      | 6.5                         | 27                           |                        | 0.47                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| Trichloroethene                                                                                                                                                                                | 5                           | 5                            | 5                      | 0.49                   | 32                      | 9.3                     | 20                      | 8.2                     | 27                      | 6.3                    | 14                      | 4.9                    | 15                      | 10                      | 12                     | 6.8                    | 6.0                    | 0.62 J                 | 7.1                    | 7.4                    | 6.1                    | 1.9                    | 3.1                     | 3.8                    | 3.7                    | 3.4                     | 2.2                    |
| Vinyl Chloride                                                                                                                                                                                 | 2                           | 2                            | 2                      | 0.019                  | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1.0 U                   | 1 U                    | 1 U                     | 1 U                     | 1 U                    | 1.0 U                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1.0 U                   | 1.0 U                  | 1.0 U                  | 1 U                     | 1 U                    |
| Xylenes (Total)                                                                                                                                                                                | 10000                       | 10000                        | 10000                  | 190                    | 6 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 3 U                    | 3.0 U                   | 3 U                    | 2 U                     | 2 U                     | 2 U                    | 2.0 U                  | 6 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 3 U                    | 3.0 U                   | 3.0 U                  | 2.0 U                  | 2 U                     | 2 U                    |

Notes:  
µg/L - Micrograms per liter

U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".

J - Estimated. Detected concentration between the laboratory RL and the Method Detection Limit (MDL) shown as the approximate concentration reported by the laboratory followed by "J". These "J" concentrations were positively identified in the sample and are qualitatively acceptable.

PADEP MSC - Pennsylvania Department of Environmental Protection Statewide health standard Medium-Specific Concentration (November 2021)  
UA R - Used Aquifer Residential  
UA NR - Used Aquifer Non-Residential  
USEPA MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)  
USEPA RSL - United States Environmental Protection Agency Regional Screening Level for Residential Tap Water (TR = 1x10-6 and THQ=1.0) (November 2024)  
Color shaded cell denotes reported concentration greater than regulatory level  
(1) - Annual monitored natural attenuation (MNA) well sample  
(2) - Quarterly Technical Impracticability (TI) Area 1 sample  
(3) - Quarterly Southern Property Boundary Area (SPBA) extraction system performance monitoring sample  
(4) - Monthly SPBA extraction system performance monitoring  
(5) - Annual Northern Property Boundary Area (NPBA) plume assessment well sample

| TABLE 2.2-1<br>Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs) - Wells Outside Technical Impracticability (TI) Boundary<br>Former York Naval Ordnance Plant - York, PA |                             |                              |                        |                        |                        |                        |                             |                              |                             |                             |                              |                             |                             |                             |                              |                              |                             |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|------------------------|------------------------|------------------------|------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------|
| Location/Identification<br>Depth (feet)<br>Sample Date                                                                                                                                         | PADEP<br>MSC UA R<br>(µg/L) | PADEP<br>MSC UA NR<br>(µg/L) | USEPA<br>MCL<br>(µg/L) | USEPA<br>RSL<br>(µg/L) | RW-2<br>10/2/19<br>(5) | RW-2<br>9/28/20<br>(5) | RW-4 Folk<br>9/11/13<br>(5) | RW-4 Folk<br>10/24/14<br>(5) | RW-4 Folk<br>9/16/15<br>(5) | RW-4 Folk<br>10/1/16<br>(5) | RW-4 Folk<br>10/24/17<br>(5) | RW-4 Folk<br>10/2/18<br>(5) | RW-4 Folk<br>9/30/19<br>(5) | RW-4 Folk<br>10/7/20<br>(5) | RW-4 Folk<br>10/13/22<br>(5) | RW-4 Folk<br>10/13/23<br>(5) | RW-4 Folk<br>10/4/24<br>(5) | MW-67D<br>10/8/19<br>(1) | MW-67D<br>10/5/20<br>(1) | MW-67D<br>10/1/21<br>(1) | MW-67D<br>10/3/22<br>(1) | MW-67D<br>9/28/23<br>(1) | MW-67D<br>9/30/24<br>(1) | MW-67S<br>10/8/19<br>(1) | MW-67S<br>10/5/20<br>(1) | MW-67S<br>10/1/21<br>(1) | MW-67S<br>9/30/22<br>(1) | MW-67S<br>10/6/23<br>(1) |      |
| Volatile Organic Compound                                                                                                                                                                      |                             |                              |                        |                        |                        |                        |                             |                              |                             |                             |                              |                             |                             |                             |                              |                              |                             |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |      |
| 1,1,1,2-Tetrachloroethane                                                                                                                                                                      | 70                          | 70                           |                        | 0.57                   | 1.0 U                  | 1 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 1 U                          | 1 U                          | 1 U                         | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U  |
| 1,1,1-Trichloroethane                                                                                                                                                                          | 200                         | 200                          | 200                    | 8000                   | 1.0 U                  | 1 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 1 U                          | 1 U                          | 1 U                         | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 4.9                      | 4.7                      | 2.6                      | 3.6                      | 10   |
| 1,1,2,2-Tetrachloroethane                                                                                                                                                                      | 0.84                        | 4.3                          |                        | 0.076                  | 1.0 U                  | 1 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 1 U                          | 1 U                          | 1 U                         | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U  |
| 1,1,2-Trichloroethane                                                                                                                                                                          | 5                           | 5                            | 5                      | 0.28                   | 1.0 U                  | 1 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 1 U                          | 1 U                          | 1 U                         | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U  |
| 1,1-Dichloroethane                                                                                                                                                                             | 31                          | 160                          |                        | 2.8                    | 1.0 U                  | 1 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 1 U                          | 1 U                          | 1 U                         | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U  |
| 1,1-Dichloroethene                                                                                                                                                                             | 7                           | 7                            | 7                      | 8.2                    | 1.0 UJ                 | 1 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 1 U                          | 1 U                          | 1 U                         | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.2                      | 1.2                      | 0.43 J                   | 0.94 J                   | 2    |
| 1,2-Dibromoethane                                                                                                                                                                              | 0.05                        | 0.05                         | 0.05                   | 0.0075                 | 1.0 U                  | 1 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 1 U                          | 1 U                          | 1 U                         | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U  |
| 1,2-Dichloroethane                                                                                                                                                                             | 5                           | 5                            | 5                      | 0.17                   | 1.0 U                  | 1 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 1 U                          | 1 U                          | 1 U                         | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U  |
| 1,2-Dichloropropane                                                                                                                                                                            | 5                           | 5                            | 5                      | 0.85                   | 1.0 U                  | 1 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 1 U                          | 1 U                          | 1 U                         | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U  |
| 2-Butanone                                                                                                                                                                                     | 4000                        | 4000                         |                        | 5600                   | 5.0 U                  | 10 U                   | 5 U                         | 5.0 U                        | 5 UJ                        | 5.0 U                       | 5 U                          | 5 U                         | 5.0 U                       | 10 U                        | 10 U                         | 10 U                         | 10 U                        | 5 U                      | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 5 U                      | 10 U                     | 10 U                     | 10 U                     | 10 U |
| 2-Hexanone                                                                                                                                                                                     | 63                          | 260                          |                        | 38                     | 5.0 U                  | 10 U                   | 5 U                         | 5.0 U                        | 5.0 U                       | 5.0 U                       | 5 U                          | 5 U                         | 5.0 U                       | 10 U                        | 10 U                         | 10 U                         | 10 U                        | 5 U                      | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 5 U                      | 10 U                     | 10 U                     | 10 U                     | 10 U |
| 4-Methyl-2-Pentanone                                                                                                                                                                           | 2800                        | 7800                         |                        | 6300                   | 5.0 U                  | 10 U                   | 5 U                         | 5.0 U                        | 5.0 U                       | 5.0 U                       | 5 U                          | 5 U                         | 5.0 U                       | 10 U                        | 10 U                         | 10 U                         | 10 U                        | 5 U                      | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 5 U                      | 10 U                     | 10 U                     | 10 U                     | 10 U |
| Acetone                                                                                                                                                                                        | 31000                       | 88000                        |                        | 18000                  | 5.0 U                  | 20 U                   | 5 U                         | 5.0 U                        | 5 UJ                        | 3.2 J                       | 5 U                          | 5 U                         | 5.0 U                       | 20 U                        | 20 U                         | 20 U                         | 20 U                        | 5 U                      | 20 U                     | 20 U                     | 20 U                     | 20 U                     | 20 U                     | 20 U                     | 5 U                      | 20 U                     | 20 U                     | 20 U                     | 20 U |
| Benzene                                                                                                                                                                                        | 5                           | 5                            | 5                      | 0.46                   | 1.0 U                  | 1 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 1 U                          | 1 U                          | 1 U                         | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U  |
| Bromochloromethane                                                                                                                                                                             | 90                          | 90                           |                        | 83                     | 1.0 U                  | 5 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 5 U                         | 5 U                          | 5 U                          | 5 U                         | 1 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 1 UJ                     | 5 U                      | 5 U                      | 5 U                      | 5 U  |
| Bromodichloromethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.13                   | 1.0 U                  | 1 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 1 U                          | 1 U                          | 1 U                         | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U  |
| Bromoform                                                                                                                                                                                      | 80                          | 80                           |                        | 3.3                    | 1.0 U                  | 4 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 4 U                         | 4 U                          | 4 U                          | 4 U                         | 1 U                      | 4 U                      | 4 U                      | 4 U                      | 4 U                      | 4 U                      | 4 U                      | 1 U                      | 4 U                      | 4 U                      | 4 U                      | 4 U  |
| Bromomethane                                                                                                                                                                                   | 10                          | 10                           |                        | 7.5                    | 1.0 U                  | 1 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 1 U                          | 1 U                          | 1 U                         | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 UJ                     | 1 UJ                     | 1 U                      | 1 U                      | 1 U                      | 1 U  |
| Carbon Disulfide                                                                                                                                                                               | 1500                        | 6200                         |                        | 810                    | 1.0 U                  | 5 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 5 U                         | 5 U                          | 5 U                          | 5 U                         | 1 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 UJ                     | 1 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U  |
| Carbon Tetrachloride                                                                                                                                                                           | 5                           | 5                            | 5                      | 0.46                   | 1.0 U                  | 1 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 1 U                          | 1 U                          | 1 U                         | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U  |
| Chlorobenzene                                                                                                                                                                                  | 100                         | 100                          | 100                    | 78                     | 1.0 U                  | 1 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 1 U                          | 1 U                          | 1 U                         | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U  |
| Chlorodibromomethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.87                   | 1.0 U                  | 1 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 1 U                          | 1 U                          | 1 U                         | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U  |
| Chloroethane                                                                                                                                                                                   | 21000                       | 88000                        |                        | 8300                   | 1.0 U                  | 1 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 1 U                          | 1 U                          | 1 U                         | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U  |
| Chloroform                                                                                                                                                                                     | 80                          | 80                           |                        | 0.22                   | 1.0 U                  | 1 U                    | 0.53 J                      | 1.0 U                        | 0.50 J                      | 0.46 J                      | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 1 U                          | 1 U                          | 1 U                         | 1.3                      | 1.2                      | 1.2                      | 1.1                      | 1.3                      | 0.92 J                   | 1.2                      | 1.1                      | 1.1                      | 0.88 J                   | 1.1                      |      |
| Chloromethane                                                                                                                                                                                  | 30                          | 30                           |                        | 190                    | 1.0 UJ                 | 1 U                    | 1 U                         | 1.0 U                        | 1 UJ                        | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 2 U                          | 2 U                          | 2 U                         | 1 U                      | 1 U                      | 1 U                      | 2 U                      | 2 U                      | 2 U                      | 2 U                      | 1 U                      | 1 U                      | 1 U                      | 2 U                      | 2 U  |
| cis-1,2-Dichloroethene                                                                                                                                                                         | 70                          | 70                           | 70                     | 25                     | 1.0 U                  | 1 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 1 U                          | 1 U                          | 1 U                         | 1 U                      | 0.33 J                   | 0.33 J                   | 0.34 J                   | 0.35 J                   | 1 U                      | 1 UJ                     | 0.4 J                    | 0.4 J                    | 0.33 J                   | 0.38 J                   |      |
| cis-1,3-Dichloropropene                                                                                                                                                                        | 6.5                         | 27                           |                        | 0.47                   | 1.0 U                  | 1 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 1 U                          | 1 U                          | 1 U                         | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U  |
| Ethylbenzene                                                                                                                                                                                   | 700                         | 700                          | 700                    | 1.5                    | 1.0 U                  | 1 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 1 U                          | 1 U                          | 1 U                         | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U  |
| Methyl tert-butyl ether                                                                                                                                                                        | 20                          | 20                           |                        | 14                     | 1.0 U                  | 1 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 1 U                          | 1 U                          | 1 U                         | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U  |
| Methylene chloride                                                                                                                                                                             | 5                           | 5                            |                        | 11                     | 1.0 U                  | 1 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 1 U                          | 1 U                          | 1 U                         | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U  |
| Styrene                                                                                                                                                                                        | 100                         | 100                          | 100                    | 1200                   | 1.0 U                  | 5 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 5 U                         | 5 U                          | 5 U                          | 5 U                         | 1 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 1 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U  |
| Tetrachloroethene                                                                                                                                                                              | 5                           | 5                            | 5                      | 11                     | 1.0 U                  | 1 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 1 U                          | 1 U                          | 1 U                         | 1 U                      | 0.33 J                   | 0.3 J                    | 0.3 J                    | 1 U                      | 1 U                      | 1 U                      | 1.5                      | 2.0                      | 1.4                      | 1.5                      | 2.5  |
| Toluene                                                                                                                                                                                        | 1000                        | 1000                         | 1000                   | 1100                   | 1.0 U                  | 1 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 1 U                          | 1 U                          | 1 U                         | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U  |
| trans-1,2-Dichloroethene                                                                                                                                                                       | 100                         | 100                          | 100                    | 68                     | 1.0 U                  | 1 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 5 U                         | 2 U                          | 2 U                          | 2 U                         | 1 U                      | 5 U                      | 1 U                      | 2 U                      | 2 U                      | 2 U                      | 2 U                      | 1 U                      | 5 U                      | 1 U                      | 2 U                      | 2 U  |
| trans-1,3-Dichloropropene                                                                                                                                                                      | 6.5                         | 27                           |                        | 0.47                   | 1.0 U                  | 1 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 1 U                          | 1 U                          | 1 U                         | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U  |
| Trichloroethene                                                                                                                                                                                | 5                           | 5                            | 5                      | 0.49                   | 3.9                    | 4.0                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 1 U                          | 1 U                          | 1 U                         | 1.0                      | 1.1                      | 1.2                      | 0.92 J                   | 0.88 J                   | 0.67 J                   | 2.2                      | 2.1                      | 1.4                      | 1.4                      | 1.7                      |      |
| Vinyl Chloride                                                                                                                                                                                 | 2                           | 2                            | 2                      | 0.019                  | 1.0 U                  | 1 U                    | 1 U                         | 1.0 U                        | 1.0 U                       | 1.0 U                       | 1 U                          | 1 U                         | 1.0 U                       | 1 U                         | 1 U                          | 1 U                          | 1 U                         | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 UJ                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U  |
| Xylenes (Total)                                                                                                                                                                                | 10000                       | 10000                        | 10000                  | 190                    | 2.0 U                  | 6 U                    | 3 U                         | 3.0 U                        | 3.0 U                       | 2.0 U                       | 2 U                          | 2 U                         | 2.0 U                       | 6 U                         | 1 U                          | 1 U                          | 1 U                         | 2 U                      | 6 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 2 U                      | 6 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U  |

Notes:  
µg/L - Micrograms per liter

U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".

J - Estimated. Detected concentration between the laboratory RL and the Method Detection Limit (MDL) shown as the approximate concentration reported by the laboratory followed by "J". These "J" concentrations were positively identified in the sample and are qualitatively acceptable.

PADEP MSC - Pennsylvania Department of Environmental Protection Statewide health standard Medium-Specific Concentration (November 2021)  
UA R - Used Aquifer Residential  
UA NR - Used Aquifer Non-Residential  
USEPA MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)  
USEPA RSL - United States Environmental Protection Agency Regional Screening Level for Residential Tap Water (TR = 1x10-6 and THQ=1.0) (November 2024)  
Color shaded cell denotes reported concentration greater than regulatory level  
(1) - Annual monitored natural attenuation (MNA) well sample  
(2) - Quarterly Technical Impracticability (TI) Area 1 sample  
(3) - Quarterly Southern Property Boundary Area (SPBA) extraction system performance monitoring sample  
(4) - Monthly SPBA extraction system performance monitoring  
(5) - Annual Northern Property Boundary Area (NPBA) plume assessment well sample

| TABLE 2.2-1                                                                                                                      |                             |                              |                        |                        |                          |                          |                         |                         |                          |                          |                         |                          |                         |                         |                         |                          |                         |                          |                         |                           |                          |                         |                         |                           |                          |                         |                         |                           |                          |                         |                         |      |  |  |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|------------------------|------------------------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|-------------------------|--------------------------|-------------------------|-------------------------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|---------------------------|--------------------------|-------------------------|-------------------------|---------------------------|--------------------------|-------------------------|-------------------------|---------------------------|--------------------------|-------------------------|-------------------------|------|--|--|
| Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs) - Wells Outside Technical Impracticability (TI) Boundary |                             |                              |                        |                        |                          |                          |                         |                         |                          |                          |                         |                          |                         |                         |                         |                          |                         |                          |                         |                           |                          |                         |                         |                           |                          |                         |                         |                           |                          |                         |                         |      |  |  |
| Former York Naval Ordnance Plant - York, PA                                                                                      |                             |                              |                        |                        |                          |                          |                         |                         |                          |                          |                         |                          |                         |                         |                         |                          |                         |                          |                         |                           |                          |                         |                         |                           |                          |                         |                         |                           |                          |                         |                         |      |  |  |
| Location/Identification<br>Depth (feet)<br>Sample Date                                                                           | PADEP<br>MSC UA R<br>(µg/L) | PADEP<br>MSC UA NR<br>(µg/L) | USEPA<br>MCL<br>(µg/L) | USEPA<br>RSL<br>(µg/L) | MW-67S<br>10/1/24<br>(1) | MW-69<br>10/11/19<br>(1) | MW-69<br>10/7/20<br>(1) | MW-69<br>10/8/21<br>(1) | MW-69<br>10/13/22<br>(1) | MW-69<br>10/10/23<br>(1) | MW-69<br>10/3/24<br>(1) | MW-79<br>10/10/19<br>(1) | MW-79<br>10/8/20<br>(1) | MW-79<br>10/7/21<br>(1) | MW-79<br>10/4/22<br>(1) | MW-79<br>10/10/23<br>(1) | MW-79<br>10/8/24<br>(1) | MW-88<br>10/10/19<br>(1) | MW-88<br>10/9/20<br>(1) | MW-88<br>9/27/21<br>(1/2) | MW-88<br>12/22/21<br>(2) | MW-88<br>3/23/22<br>(2) | MW-88<br>6/22/22<br>(2) | MW-88<br>9/27/22<br>(1/2) | MW-88<br>12/20/22<br>(2) | MW-88<br>3/21/23<br>(2) | MW-88<br>6/20/23<br>(2) | MW-88<br>9/27/23<br>(1/2) | MW-88<br>12/19/23<br>(2) | MW-88<br>3/19/24<br>(2) | MW-88<br>6/25/24<br>(2) |      |  |  |
| Parameter                                                                                                                        |                             |                              |                        |                        |                          |                          |                         |                         |                          |                          |                         |                          |                         |                         |                         |                          |                         |                          |                         |                           |                          |                         |                         |                           |                          |                         |                         |                           |                          |                         |                         |      |  |  |
| Volatile Organic Compound                                                                                                        |                             |                              |                        |                        |                          |                          |                         |                         |                          |                          |                         |                          |                         |                         |                         |                          |                         |                          |                         |                           |                          |                         |                         |                           |                          |                         |                         |                           |                          |                         |                         |      |  |  |
| 1,1,1,2-Tetrachloroethane                                                                                                        | 70                          | 70                           |                        | 0.57                   | 1 U                      | 1.0 U                    | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 1.0 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 0.5 U                   | 1 U                     | 1 U  |  |  |
| 1,1,1-Trichloroethane                                                                                                            | 200                         | 200                          | 200                    | 8000                   | 5.7                      | 1.0 U                    | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 1.0 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 0.5 U                   | 1 U                     | 1 U  |  |  |
| 1,1,2,2-Tetrachloroethane                                                                                                        | 0.84                        | 4.3                          |                        | 0.076                  | 1 U                      | 1.0 U                    | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 1.0 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 0.5 U                   | 1 U                     | 1 U  |  |  |
| 1,1,2-Trichloroethane                                                                                                            | 5                           | 5                            | 5                      | 0.28                   | 1 U                      | 1.0 U                    | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 1.0 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 0.5 U                   | 1 U                     | 1 U  |  |  |
| 1,1-Dichloroethane                                                                                                               | 31                          | 160                          |                        | 2.8                    | 1 U                      | 1.0 U                    | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 2.9                      | 1.8                     | 1.8                     | 1.3                     | 1.3                      | 1.2                     | 1 U                      | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 0.4 J                     | 1 U                      | 0.5 U                   | 1 U                     | 1 U  |  |  |
| 1,1-Dichloroethene                                                                                                               | 7                           | 7                            | 7                      | 8.2                    | 1.4                      | 1.0 U                    | 0.26 J                  | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 1.0 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 0.5 U                   | 1 U                     | 1 U  |  |  |
| 1,2-Dibromoethane                                                                                                                | 0.05                        | 0.05                         | 0.05                   | 0.0075                 | 1 U                      | 1.0 U                    | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 1.0 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 0.5 U                   | 1 U                     | 1 U  |  |  |
| 1,2-Dichloroethane                                                                                                               | 5                           | 5                            | 5                      | 0.17                   | 1 U                      | 1.0 U                    | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 1.0 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 0.5 U                   | 1 U                     | 1 U  |  |  |
| 1,2-Dichloropropane                                                                                                              | 5                           | 5                            | 5                      | 0.85                   | 1 U                      | 1.0 U                    | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 1.0 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 0.5 U                   | 1 U                     | 1 U  |  |  |
| 2-Butanone                                                                                                                       | 4000                        | 4000                         |                        | 5600                   | 10 U                     | 5.0 U                    | 10 U                    | 10 U                    | 10 U                     | 10 U                     | 10 U                    | 5.0 U                    | 10 U                    | 10 U                    | 10 U                    | 10 U                     | 10 U                    | 5 U                      | 10 U                    | 10 U                      | 10 U                     | 10 U                    | 10 U                    | 10 U                      | 10 U                     | 10 U                    | 10 U                    | 10 U                      | 10 U                     | 5 U                     | 10 U                    | 10 U |  |  |
| 2-Hexanone                                                                                                                       | 63                          | 260                          |                        | 38                     | 10 U                     | 5.0 U                    | 10 U                    | 10 U                    | 10 U                     | 10 U                     | 10 U                    | 5.0 U                    | 10 U                    | 10 U                    | 10 U                    | 10 U                     | 10 U                    | 5 U                      | 10 U                    | 10 U                      | 10 U                     | 10 U                    | 10 U                    | 10 U                      | 10 U                     | 10 U                    | 10 U                    | 10 U                      | 10 U                     | 5 U                     | 10 U                    | 10 U |  |  |
| 4-Methyl-2-Pentanone                                                                                                             | 2800                        | 7800                         |                        | 6300                   | 10 U                     | 5.0 UJ                   | 10 U                    | 10 U                    | 10 U                     | 10 U                     | 10 U                    | 5.0 U                    | 10 U                    | 10 U                    | 10 U                    | 10 U                     | 10 U                    | 5 U                      | 10 U                    | 10 U                      | 10 U                     | 10 U                    | 10 U                    | 10 U                      | 10 U                     | 10 U                    | 10 U                    | 10 U                      | 10 U                     | 5 U                     | 10 U                    | 10 U |  |  |
| Acetone                                                                                                                          | 31000                       | 88000                        |                        | 18000                  | 20 U                     | 5.0 U                    | 1.2 J                   | 20 U                    | 20 U                     | 20 U                     | 20 U                    | 5.0 U                    | 20 U                    | 20 U                    | 20 U                    | 20 U                     | 20 U                    | 5 U                      | 20 U                    | 20 U                      | 20 U                     | 20 U                    | 20 U                    | 20 U                      | 20 U                     | 20 U                    | 20 UJ                   | 20 U                      | 20 U                     | 5 U                     | 20 U                    | 20 U |  |  |
| Benzene                                                                                                                          | 5                           | 5                            | 5                      | 0.46                   | 1 U                      | 1.0 U                    | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 1.0 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 0.5 U                   | 1 U                     | 1 U  |  |  |
| Bromochloromethane                                                                                                               | 90                          | 90                           |                        | 83                     | 5 U                      | 1.0 U                    | 5 U                     | 5 U                     | 5 U                      | 5 U                      | 5 U                     | 1.0 U                    | 5 U                     | 5 U                     | 5 U                     | 5 U                      | 5 U                     | 1 U                      | 5 U                     | 5 U                       | 5 U                      | 5 U                     | 5 U                     | 5 U                       | 5 U                      | 5 U                     | 5 U                     | 5 U                       | 5 U                      | 0.5 U                   | 5 U                     | 5 U  |  |  |
| Bromodichloromethane                                                                                                             | 80                          | 80                           |                        | 0.13                   | 1 U                      | 1.0 U                    | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 1.0 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 0.5 U                   | 1 U                     | 1 U  |  |  |
| Bromoform                                                                                                                        | 80                          | 80                           |                        | 3.3                    | 4 U                      | 1.0 U                    | 4 U                     | 4 U                     | 4 U                      | 4 U                      | 4 U                     | 1.0 U                    | 4 U                     | 4 U                     | 4 U                     | 4 U                      | 4 U                     | 1 U                      | 4 U                     | 4 U                       | 4 U                      | 4 U                     | 4 U                     | 4 U                       | 4 U                      | 4 U                     | 4 U                     | 4 U                       | 4 U                      | 1 U                     | 4 U                     | 4 U  |  |  |
| Bromomethane                                                                                                                     | 10                          | 10                           |                        | 7.5                    | 1 UJ                     | 1.0 U                    | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 1.0 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 1 UJ                    | 1 U                     | 1 U                       | 1 U                      | 0.5 U                   | 1 U                     | 1 UJ |  |  |
| Carbon Disulfide                                                                                                                 | 1500                        | 6200                         |                        | 810                    | 5 UJ                     | 1.0 U                    | 5 U                     | 5 U                     | 5 U                      | 5 U                      | 5 U                     | 1.0 U                    | 5 U                     | 5 U                     | 5 U                     | 5 U                      | 5 U                     | 1 U                      | 5 U                     | 5 U                       | 5 U                      | 5 U                     | 5 U                     | 5 U                       | 5 U                      | 5 U                     | 5 U                     | 5 U                       | 5 U                      | 1 U                     | 5 U                     | 5 U  |  |  |
| Carbon Tetrachloride                                                                                                             | 5                           | 5                            | 5                      | 0.46                   | 1 U                      | 1.0 U                    | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 1.0 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 0.5 U                   | 1 U                     | 1 U  |  |  |
| Chlorobenzene                                                                                                                    | 100                         | 100                          | 100                    | 78                     | 1 U                      | 1.0 U                    | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 1.0 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 0.5 U                   | 1 U                     | 1 U  |  |  |
| Chlorodibromomethane                                                                                                             | 80                          | 80                           |                        | 0.87                   | 1 U                      | 1.0 U                    | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 1.0 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 0.5 U                   | 1 U                     | 1 U  |  |  |
| Chloroethane                                                                                                                     | 21000                       | 88000                        |                        | 8300                   | 1 U                      | 1.0 U                    | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 1.0 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 0.5 U                   | 1 U                     | 1 U  |  |  |
| Chloroform                                                                                                                       | 80                          | 80                           |                        | 0.22                   | 0.77 J                   | 1.0 U                    | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 1.0 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 0.5 U                   | 1 U                     | 1 U  |  |  |
| Chloromethane                                                                                                                    | 30                          | 30                           |                        | 190                    | 2 U                      | 1.0 U                    | 1 U                     | 1 U                     | 2 U                      | 2 U                      | 2 U                     | 1.0 U                    | 1 U                     | 1 U                     | 2 U                     | 2 U                      | 2 U                     | 1 U                      | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 2 U                      | 2 U                     | 2 U                     | 2 U                       | 2 U                      | 0.5 U                   | 2 U                     | 2 UJ |  |  |
| cis-1,2-Dichloroethene                                                                                                           | 70                          | 70                           | 70                     | 25                     | 1 U                      | 8.0                      | 6.2                     | 3.5                     | 4.7                      | 3.9                      | 5.4                     | 6.2                      | 2.3                     | 1.7                     | 1.0                     | 1.3                      | 0.65 J                  | 1 U                      | 1 U                     | 0.37 J                    | 0.87 J                   | 0.78 J                  | 1.8                     | 1 U                       | 0.78 J                   | 0.88 J                  | 1.6                     | 1 U                       | 0.17 J                   | 0.95 J                  | 0.67 J                  | 1 U  |  |  |
| cis-1,3-Dichloropropene                                                                                                          | 6.5                         | 27                           |                        | 0.47                   | 1 U                      | 1.0 U                    | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 1.0 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 0.5 U                   | 1 U                     | 1 U  |  |  |
| Ethylbenzene                                                                                                                     | 700                         | 700                          | 700                    | 1.5                    | 1 U                      | 1.0 U                    | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 1.0 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 0.5 U                   | 1 U                     | 1 U  |  |  |
| Methyl tert-butyl ether                                                                                                          | 20                          | 20                           |                        | 14                     | 1 U                      | 1.0 U                    | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 1.0 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 0.5 U                   | 1 U                     | 1 U  |  |  |
| Methylene chloride                                                                                                               | 5                           | 5                            |                        | 11                     | 1 U                      | 1.0 U                    | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 1.0 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 0.5 U                   | 1 U                     | 1 U  |  |  |
| Styrene                                                                                                                          | 100                         | 100                          | 100                    | 1200                   | 5 U                      | 1.0 U                    | 5 U                     | 5 U                     | 5 U                      | 5 U                      | 5 U                     | 1.0 U                    | 5 U                     | 5 U                     | 5 U                     | 5 U                      | 5 U                     | 1 U                      | 5 U                     | 5 U                       | 5 U                      | 5 U                     | 5 U                     | 5 U                       | 5 U                      | 5 U                     | 5 U                     | 5 U                       | 5 U                      | 0.5 U                   | 5 U                     | 5 U  |  |  |
| Tetrachloroethene                                                                                                                | 5                           | 5                            | 5                      | 11                     | 2.0                      | 1.0 U                    | 0.38 J                  | 0.3 J                   | 1 U                      | 1 U                      | 0.33 J                  | 1.0 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1                       | 0.57 J                   | 4.5                     | 5.2                       | 4.6                      | 11                      | 0.89 J                  | 4.9                       | 8.0                      | 17                      | 0.63 J                  | 2.5                       | 8.2                      | 10                      | 10                      | 10   |  |  |
| Toluene                                                                                                                          | 1000                        | 1000                         | 1000                   | 1100                   | 1 U                      | 1.0 U                    | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 1.0 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 0.5 U                   | 1 U                     | 1 U  |  |  |
| trans-1,2-Dichloroethene                                                                                                         | 100                         | 100                          | 100                    | 68                     | 2 U                      | 1.0 U                    | 5 U                     | 1 U                     | 2 U                      | 2 U                      | 2 U                     | 1.0 U                    | 5 U                     | 1 U                     | 2 U                     | 2 U                      | 2 U                     | 1 U                      | 5 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 2 U                       | 2 U                      | 2 U                     | 2 U                     | 2 U                       | 0.5 U                    | 2 U                     | 2 U                     | 2 U  |  |  |
| trans-1,3-Dichloropropene                                                                                                        | 6.5                         | 27                           |                        | 0.47                   | 1 U                      | 1.0 U                    | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 1.0 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 0.5 U                    | 1 U                     | 1 U                     | 1 U  |  |  |
| Trichloroethene                                                                                                                  | 5                           | 5                            | 5                      | 0.49                   | 1.2                      | 9.4                      | 9.4                     | 5.5                     | 4.8                      | 3.8                      | 4.3                     | 1.0 U                    | 0.42 J                  | 1 U                     | 0.35 J                  | 0.37 J                   | 0.32 J                  | 1 U                      | 0.35 J                  | 2.2                       | 1.7                      | 1.3                     | 2.4                     | 0.44 J                    | 0.85 J                   | 1.4                     | 1.8                     | 1 U                       | 0.33 J                   | 1.6                     | 1.2                     | 1.2  |  |  |
| Vinyl Chloride                                                                                                                   | 2                           | 2                            | 2                      | 0.019                  | 1 UJ                     | 1.0 U                    | 1 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 1.0 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 0.5 U                   | 1 U                     | 1 UJ |  |  |
| Xylenes (Total)                                                                                                                  | 10000                       | 10000                        | 10000                  | 190                    | 1 U                      | 2.0 U                    | 6 U                     | 1 U                     | 1 U                      | 1 U                      | 1 U                     | 2.0 U                    | 6 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 2 U                      | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U                       | 1 U                      | 1 U                     | 1 U                     | 1 U  |  |  |

Notes:  
µg/L - Micrograms per liter

U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".

J - Estimated. Detected concentration between the laboratory RL and the Method Detection Limit (MDL) shown as the approximate concentration reported by the laboratory followed by "J". These "J" concentrations were positively identified in the sample and are qualitatively acceptable.

PADEP MSC - Pennsylvania Department of Environmental Protection Statewide health standard Medium-Specific Concentration (November 2021)  
UA R - Used Aquifer Residential  
UA NR - Used Aquifer Non-Residential  
USEPA MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)  
USEPA RSL - United States Environmental Protection Agency Regional Screening Level for Residential Tap Water (TR = 1x10-6 and THQ=1.0) (November 2024)  
Color shaded cell denotes reported concentration greater than regulatory level  
(1) - Annual monitored natural attenuation (MNA) well sample  
(2) - Quarterly Technical Impracticability (TI) Area 1 sample  
(3) - Quarterly Southern Property Boundary Area (SPBA) extraction system performance monitoring sample  
(4) - Monthly SPBA extraction system performance monitoring  
(5) - Annual Northern Property Boundary Area (NPBA) plume assessment well sample

| TABLE 2.2-1<br>Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs) - Wells Outside Technical Impracticability (TI) Boundary<br>Former York Naval Ordnance Plant - York, PA |                             |                              |                        |                        |                           |                          |                          |                           |                           |                          |                          |                          |                          |                          |                          |                          |                           |                          |                           |                           |                          |                          |                           |                          |                           |                          |                          |                          |                          |                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|------------------------|------------------------|---------------------------|--------------------------|--------------------------|---------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------------------------|---------------------------|---------------------------|--------------------------|--------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Location/Identification<br>Depth (feet)<br>Sample Date                                                                                                                                         | PADEP<br>MSC UA R<br>(µg/L) | PADEP<br>MSC UA NR<br>(µg/L) | USEPA<br>MCL<br>(µg/L) | USEPA<br>RSL<br>(µg/L) | MW-88<br>9/25/24<br>(1/2) | MW-88<br>12/17/24<br>(2) | MW-111<br>10/9/19<br>(1) | MW-111<br>10/12/20<br>(1) | MW-111<br>10/11/21<br>(1) | MW-111<br>10/6/22<br>(1) | MW-111<br>10/4/23<br>(1) | MW-111<br>10/2/24<br>(1) | MW-112<br>10/8/19<br>(1) | MW-112<br>10/9/20<br>(1) | MW-112<br>10/8/21<br>(1) | MW-112<br>10/7/22<br>(1) | MW-112<br>10/10/23<br>(1) | MW-112<br>10/7/24<br>(1) | MW-115<br>10/10/19<br>(1) | MW-115<br>10/12/20<br>(1) | MW-115<br>10/8/21<br>(1) | MW-115<br>10/6/22<br>(1) | MW-115<br>10/10/23<br>(1) | MW-115<br>10/7/24<br>(1) | MW-43D<br>10/11/19<br>(1) | MW-43D<br>10/8/20<br>(1) | MW-43D<br>10/6/21<br>(1) | MW-43D<br>10/6/22<br>(1) | MW-43D<br>10/6/23<br>(1) | MW-43D<br>10/4/24<br>(1) |
| Volatile Organic Compound                                                                                                                                                                      |                             |                              |                        |                        |                           |                          |                          |                           |                           |                          |                          |                          |                          |                          |                          |                          |                           |                          |                           |                           |                          |                          |                           |                          |                           |                          |                          |                          |                          |                          |
| 1,1,1,2-Tetrachloroethane                                                                                                                                                                      | 70                          | 70                           |                        | 0.57                   | 1 U                       | 1 UJ                     | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      |
| 1,1,1-Trichloroethane                                                                                                                                                                          | 200                         | 200                          | 200                    | 8000                   | 1 U                       | 1 UJ                     | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      |
| 1,1,2,2-Tetrachloroethane                                                                                                                                                                      | 0.84                        | 4.3                          |                        | 0.076                  | 1 U                       | 1 U                      | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                       | 1.0 U                    | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      |                          |
| 1,1,2-Trichloroethane                                                                                                                                                                          | 5                           | 5                            | 5                      | 0.28                   | 1 U                       | 1 U                      | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                       | 1.0 U                    | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      |                          |
| 1,1-Dichloroethane                                                                                                                                                                             | 31                          | 160                          |                        | 2.8                    | 1 U                       | 1 U                      | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 20                       | 13                        | 13                        | 13                       | 10                       | 11                        | 1.0 U                    | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      |                          |
| 1,1-Dichloroethene                                                                                                                                                                             | 7                           | 7                            | 7                      | 8.2                    | 1 U                       | 1 U                      | 1.0 U                    | 0.36 J                    | 0.56 J                    | 0.64 J                   | 0.49 J                   | 0.47 J                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 3.1                      | 2                         | 2.6                       | 1.9                      | 1.4                      | 2                         | 1.0 U                    | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      |                          |
| 1,2-Dibromoethane                                                                                                                                                                              | 0.05                        | 0.05                         | 0.05                   | 0.0075                 | 1 U                       | 1 U                      | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                       | 1.0 U                    | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      |                          |
| 1,2-Dichloroethane                                                                                                                                                                             | 5                           | 5                            | 5                      | 0.17                   | 1 U                       | 1 U                      | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.5                      | 1.3                       | 1.2                       | 1.1                      | 1 U                      | 1 U                       | 1.0 U                    | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      |                          |
| 1,2-Dichloropropane                                                                                                                                                                            | 5                           | 5                            | 5                      | 0.85                   | 1 U                       | 1 U                      | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                       | 1.0 U                    | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      |                          |
| 2-Butanone                                                                                                                                                                                     | 4000                        | 4000                         |                        | 5600                   | 10 U                      | 10 U                     | 5.0 U                    | 10 U                      | 10 U                      | 10 U                     | 10 U                     | 10 U                     | 5 U                      | 10 U                     | 10 U                     | 10 U                     | 10 U                      | 5.0 U                    | 10 U                      | 10 U                      | 10 U                     | 10 U                     | 10 U                      | 5.0 U                    | 10 U                      | 10 U                     | 10 U                     | 10 U                     | 10 U                     |                          |
| 2-Hexanone                                                                                                                                                                                     | 63                          | 260                          |                        | 38                     | 10 U                      | 10 U                     | 5.0 U                    | 10 U                      | 10 U                      | 10 U                     | 10 U                     | 10 U                     | 5 U                      | 10 U                     | 10 U                     | 10 U                     | 10 U                      | 5.0 U                    | 10 U                      | 10 U                      | 10 U                     | 10 U                     | 10 U                      | 5.0 U                    | 10 U                      | 10 U                     | 10 U                     | 10 U                     | 10 U                     |                          |
| 4-Methyl-2-Pentanone                                                                                                                                                                           | 2800                        | 7800                         |                        | 6300                   | 10 U                      | 10 U                     | 5.0 U                    | 10 U                      | 10 U                      | 10 U                     | 10 U                     | 10 U                     | 5 U                      | 10 U                     | 10 U                     | 10 U                     | 10 U                      | 5.0 UJ                   | 10 U                      | 10 U                      | 10 U                     | 10 U                     | 10 U                      | 5.0 UJ                   | 10 U                      | 10 U                     | 10 U                     | 10 U                     | 10 U                     |                          |
| Acetone                                                                                                                                                                                        | 31000                       | 88000                        |                        | 18000                  | 20 U                      | 20 U                     | 5.0 U                    | 20 U                      | 20 U                      | 20 U                     | 20 U                     | 20 U                     | 5 U                      | 20 U                     | 20 U                     | 20 U                     | 20 U                      | 4.2 J                    | 20 U                      | 20 U                      | 20 U                     | 20 U                     | 20 U                      | 5.0 U                    | 20 U                      | 20 U                     | 20 U                     | 20 U                     | 20 U                     |                          |
| Benzene                                                                                                                                                                                        | 5                           | 5                            | 5                      | 0.46                   | 1 U                       | 1 U                      | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 9.3                      | 8.4                       | 8.8                       | 7.3                      | 5.3                      | 6.1                       | 1.0 U                    | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      |                          |
| Bromochloromethane                                                                                                                                                                             | 90                          | 90                           |                        | 83                     | 5 U                       | 5 U                      | 1.0 U                    | 5 U                       | 5 U                       | 5 U                      | 5 U                      | 5 U                      | 1 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                       | 1.0 U                    | 5 U                       | 5 U                       | 5 U                      | 5 U                      | 5 U                       | 1.0 U                    | 5 U                       | 5 U                      | 5 U                      | 5 U                      | 5 U                      |                          |
| Bromodichloromethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.13                   | 1 U                       | 1 U                      | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                       | 1.0 U                    | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      |                          |
| Bromoform                                                                                                                                                                                      | 80                          | 80                           |                        | 3.3                    | 4 UJ                      | 4 UJ                     | 1.0 U                    | 4 U                       | 4 U                       | 4 U                      | 4 U                      | 4 U                      | 1 U                      | 4 U                      | 4 U                      | 4 U                      | 4 U                       | 1.0 U                    | 4 U                       | 4 U                       | 4 U                      | 4 U                      | 4 U                       | 1.0 U                    | 4 U                       | 4 U                      | 4 U                      | 4 U                      | 4 U                      |                          |
| Bromomethane                                                                                                                                                                                   | 10                          | 10                           |                        | 7.5                    | 1 U                       | 1 U                      | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 UJ                      | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 UJ                      | 1.0 U                    | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      |                          |
| Carbon Disulfide                                                                                                                                                                               | 1500                        | 6200                         |                        | 810                    | 5 U                       | 5 U                      | 1.0 U                    | 5 U                       | 5 U                       | 5 U                      | 5 U                      | 5 U                      | 1 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                       | 1.0 U                    | 5 U                       | 5 U                       | 5 U                      | 5 U                      | 5 U                       | 1.0 U                    | 5 U                       | 5 U                      | 5 U                      | 5 U                      | 5 U                      |                          |
| Carbon Tetrachloride                                                                                                                                                                           | 5                           | 5                            | 5                      | 0.46                   | 1 U                       | 1 UJ                     | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                       | 1.0 U                    | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      |                          |
| Chlorobenzene                                                                                                                                                                                  | 100                         | 100                          | 100                    | 78                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                       | 1.0 U                    | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      |                          |
| Chlorodibromomethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.87                   | 1 U                       | 1 UJ                     | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                       | 1.0 U                    | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      |                          |
| Chloroethane                                                                                                                                                                                   | 21000                       | 88000                        |                        | 8300                   | 1 U                       | 1 U                      | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 UJ                      | 1.0 U                    | 0.69 J                    | 0.83 J                    | 0.64 J                   | 0.52 J                   | 1 UJ                      | 1.0 U                    | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      |                          |
| Chloroform                                                                                                                                                                                     | 80                          | 80                           |                        | 0.22                   | 1 U                       | 1 U                      | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 0.48 J                   | 1 U                      | 1 U                       | 1 U                      | 1.0 U                     | 1 U                       | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      |                          |
| Chloromethane                                                                                                                                                                                  | 30                          | 30                           |                        | 190                    | 2 U                       | 2 U                      | 1.0 U                    | 1 U                       | 1 U                       | 2 U                      | 2 U                      | 2 U                      | 1 U                      | 1 U                      | 1 U                      | 2 U                      | 2 U                       | 2 U                      | 1.0 U                     | 1 U                       | 1 UJ                     | 2 U                      | 2 U                       | 2 U                      | 1.0 U                     | 1 U                      | 1 U                      | 2 U                      | 2 U                      |                          |
| cis-1,2-Dichloroethene                                                                                                                                                                         | 70                          | 70                           | 70                     | 25                     | 1 U                       | 1 U                      | 2.7                      | 1 U                       | 8.6                       | 7.7                      | 4.6                      | 6.9                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 150                      | 120                       | 120                       | 98                       | 75                       | 84                        | 7.2                      | 6.3                       | 5.4                      | 4.6                      | 4.1                      | 3.3                      |                          |
| cis-1,3-Dichloropropene                                                                                                                                                                        | 6.5                         | 27                           |                        | 0.47                   | 1 U                       | 1 U                      | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 UJ                      | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 UJ                      | 1.0 U                    | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      |                          |
| Ethylbenzene                                                                                                                                                                                   | 700                         | 700                          | 700                    | 1.5                    | 1 U                       | 1 U                      | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                       | 1.0 U                    | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      |                          |
| Methyl tert-butyl ether                                                                                                                                                                        | 20                          | 20                           |                        | 14                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 28                       | 22                        | 22                        | 22                       | 18                       | 19                        | 1.0 U                    | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      |                          |
| Methylene chloride                                                                                                                                                                             | 5                           | 5                            |                        | 11                     | 1 U                       | 1 U                      | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                       | 1.0 U                    | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      |                          |
| Styrene                                                                                                                                                                                        | 100                         | 100                          | 100                    | 1200                   | 5 U                       | 5 U                      | 1.0 U                    | 5 U                       | 5 U                       | 5 U                      | 5 U                      | 5 U                      | 1 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                       | 1.0 U                    | 5 U                       | 5 U                       | 5 U                      | 5 U                      | 5 U                       | 1.0 U                    | 5 U                       | 5 U                      | 5 U                      | 5 U                      | 5 U                      |                          |
| Tetrachloroethene                                                                                                                                                                              | 5                           | 5                            | 5                      | 11                     | 1.6                       | 3.5                      | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 0.32 J                   | 1 U                      | 0.92 J                    | 1.2                      | 1.0 U                     | 1 U                       | 1 U                      | 1 U                      | 1 U                       | 6.3                      | 5.5                       | 5.6                      | 5.4                      | 4.4                      | 4.9                      |                          |
| Toluene                                                                                                                                                                                        | 1000                        | 1000                         | 1000                   | 1100                   | 1 U                       | 1 U                      | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                       | 1.0 U                    | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      |                          |
| trans-1,2-Dichloroethene                                                                                                                                                                       | 100                         | 100                          | 100                    | 68                     | 2 U                       | 2 U                      | 1.0 U                    | 5 U                       | 1 U                       | 2 U                      | 2 U                      | 2 U                      | 1 U                      | 5 U                      | 1 U                      | 2 U                      | 2 U                       | 2 U                      | 1.0 U                     | 1.1 J                     | 1 U                      | 0.88 J                   | 0.8 J                     | 0.87 J                   | 1.0 U                     | 5 U                      | 1 U                      | 2 U                      | 2 U                      |                          |
| trans-1,3-Dichloropropene                                                                                                                                                                      | 6.5                         | 27                           |                        | 0.47                   | 1 U                       | 1 UJ                     | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                       | 1.0 U                    | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      |                          |
| Trichloroethene                                                                                                                                                                                | 5                           | 5                            | 5                      | 0.49                   | 1 U                       | 0.54J                    | 1.0 U                    | 1 U                       | 1.2                       | 1.2                      | 1.1                      | 0.74 J                   | 0.71 J                   | 0.7 J                    | 0.88 J                   | 0.68 J                   | 0.89 J                    | 1.0                      | 1.0 U                     | 0.43 J                    | 0.94 J                   | 1 U                      | 0.34 J                    | 1 U                      | 5.1                       | 3.1                      | 4.7                      | 3.1                      | 1.8                      |                          |
| Vinyl Chloride                                                                                                                                                                                 | 2                           | 2                            | 2                      | 0.019                  | 1 U                       | 1 U                      | 1.0 U                    | 1 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 UJ                      | 67                       | 88                        | 95                        | 79                       | 80                       | 89J                       | 1.0 U                    | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      |                          |
| Xylenes (Total)                                                                                                                                                                                | 10000                       | 10000                        | 10000                  | 190                    | 1 U                       | 1 U                      | 2.0 U                    | 6 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                      | 2 U                      | 6 U                      | 1 U                      | 1 U                      | 1 U                       | 2.0 U                    | 6 U                       | 1 U                       | 1 U                      | 1 U                      | 1 U                       | 2.0 U                    | 6 U                       | 1 U                      | 1 U                      | 1 U                      | 1 U                      |                          |

Notes:  
µg/L - Micrograms per liter

U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".

J - Estimated. Detected concentration between the laboratory RL and the Method Detection Limit (MDL) shown as the approximate concentration reported by the laboratory followed by "J".  
These "J" concentrations were positively identified in the sample and are qualitatively acceptable.

PADEP MSC - Pennsylvania Department of Environmental Protection Statewide health standard  
Medium-Specific Concentration (November 2021)  
UA R - Used Aquifer Residential  
UA NR - Used Aquifer Non-Residential  
USEPA MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)  
USEPA RSL - United States Environmental Protection Agency Regional Screening Level for Residential Tap Water (TR = 1x10-6 and THQ=1.0) (November 2024)  
Color shaded cell denotes reported concentration greater than regulatory level  
(1) - Annual monitored natural attenuation (MNA) well sample  
(2) - Quarterly Technical Impracticability (TI) Area 1 sample  
(3) - Quarterly Southern Property Boundary Area (SPBA) extraction system performance monitoring sample  
(4) - Monthly SPBA extraction system performance monitoring  
(5) - Annual Northern Property Boundary Area (NPBA) plume assessment well sample



| TABLE 2.2-1<br>Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs) - Wells Outside Technical Impracticability (TI) Boundary<br>Former York Naval Ordnance Plant - York, PA |                             |                              |                        |                        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                         |                                         |                                         |                                         |                                         |                                         |                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|------------------------|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-------------------------|
| Location/Identification<br>Depth (feet)<br>Sample Date                                                                                                                                         | PADEP<br>MSC UA R<br>(µg/L) | PADEP<br>MSC UA NR<br>(µg/L) | USEPA<br>MCL<br>(µg/L) | USEPA<br>RSL<br>(µg/L) | MW-110<br>9/24/19<br>(1) | MW-110<br>9/30/20<br>(1) | MW-110<br>10/5/21<br>(1) | MW-110<br>10/5/22<br>(1) | MW-110<br>10/6/23<br>(1) | MW-110<br>10/3/24<br>(1) | MW-150<br>10/4/19<br>(1) | MW-150<br>9/30/20<br>(1) | MW-150<br>10/5/21<br>(1) | MW-150<br>10/5/22<br>(1) | MW-150<br>10/5/23<br>(1) | MW-150<br>10/3/24<br>(1) | Cole D<br>10/4/19<br>(1) | Cole D<br>10/1/20<br>(1) | Cole D<br>10/5/21<br>(1) | Cole D<br>10/5/22<br>(1) | Cole D<br>10/5/23<br>(1) | Cole D<br>10/3/24<br>(1) | Cole Steel<br>(MW-12)<br>10/4/19<br>(1) | Cole Steel<br>(MW-12)<br>10/1/20<br>(1) | Cole Steel<br>(MW-12)<br>10/8/21<br>(1) | Cole Steel<br>(MW-12)<br>10/7/22<br>(1) | Cole Steel<br>(MW-12)<br>10/6/23<br>(1) | Cole Steel<br>(MW-12)<br>10/4/24<br>(1) | GM-1D<br>10/4/19<br>(1) |
| Volatile Organic Compound                                                                                                                                                                      |                             |                              |                        |                        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                                         |                                         |                                         |                                         |                                         |                                         |                         |
| 1,1,1,2-Tetrachloroethane                                                                                                                                                                      | 70                          | 70                           |                        | 0.57                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1.0 U                   |
| 1,1,1-Trichloroethane                                                                                                                                                                          | 200                         | 200                          | 200                    | 8000                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1.0 U                   |
| 1,1,2,2-Tetrachloroethane                                                                                                                                                                      | 0.84                        | 4.3                          |                        | 0.076                  | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1.0 U                   |
| 1,1,2-Trichloroethane                                                                                                                                                                          | 5                           | 5                            | 5                      | 0.28                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1.0 U                   |
| 1,1-Dichloroethane                                                                                                                                                                             | 31                          | 160                          |                        | 2.8                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1.0 U                   |
| 1,1-Dichloroethene                                                                                                                                                                             | 7                           | 7                            | 7                      | 8.2                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 0.90 J                   | 0.53 J                   | 0.47 J                   | 0.52 J                   | 0.5 J                    | 0.35 J                   | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1.0 U                   |
| 1,2-Dibromoethane                                                                                                                                                                              | 0.05                        | 0.05                         | 0.05                   | 0.0075                 | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1.0 U                   |
| 1,2-Dichloroethane                                                                                                                                                                             | 5                           | 5                            | 5                      | 0.17                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1.0 U                   |
| 1,2-Dichloropropane                                                                                                                                                                            | 5                           | 5                            | 5                      | 0.85                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1.0 U                   |
| 2-Butanone                                                                                                                                                                                     | 4000                        | 4000                         |                        | 5600                   | 5 U                      | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 5.0 U                    | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 5.0 U                    | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 5.0 U                                   | 10 U                                    | 10 U                                    | 10 U                                    | 10 U                                    | 10 U                                    | 5.0 U                   |
| 2-Hexanone                                                                                                                                                                                     | 63                          | 260                          |                        | 38                     | 5 U                      | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 5.0 U                    | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 5.0 U                    | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 5.0 U                                   | 10 U                                    | 10 U                                    | 10 U                                    | 10 U                                    | 10 U                                    | 5.0 U                   |
| 4-Methyl-2-Pentanone                                                                                                                                                                           | 2800                        | 7800                         |                        | 6300                   | 5 U                      | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 5.0 U                    | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 5.0 U                    | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 5.0 U                                   | 10 U                                    | 10 U                                    | 10 U                                    | 10 U                                    | 10 U                                    | 5.0 U                   |
| Acetone                                                                                                                                                                                        | 31000                       | 88000                        |                        | 18000                  | 5 U                      | 20 U                     | 20 U                     | 20 U                     | 20 U                     | 20 U                     | 5.0 U                    | 20 U                     | 20 U                     | 20 U                     | 20 U                     | 20 U                     | 5.0 U                    | 0.88 J                   | 20 U                     | 20 U                     | 20 U                     | 20 U                     | 5.0 U                                   | 20 U                                    | 20 U                                    | 20 U                                    | 20 U                                    | 20 U                                    | 5.0 U                   |
| Benzene                                                                                                                                                                                        | 5                           | 5                            | 5                      | 0.46                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1.0 U                   |
| Bromochloromethane                                                                                                                                                                             | 90                          | 90                           |                        | 83                     | 1 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 1.0 U                    | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 1.0 U                    | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 1.0 U                                   | 5 U                                     | 5 U                                     | 5 U                                     | 5 U                                     | 5 U                                     | 1.0 U                   |
| Bromodichloromethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.13                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1.0 U                   |
| Bromoform                                                                                                                                                                                      | 80                          | 80                           |                        | 3.3                    | 1 U                      | 4 U                      | 4 U                      | 4 U                      | 4 U                      | 4 U                      | 1.0 U                    | 4 U                      | 4 U                      | 4 U                      | 4 U                      | 4 U                      | 1.0 U                    | 4 U                      | 4 U                      | 4 U                      | 4 U                      | 4 U                      | 1.0 U                                   | 4 U                                     | 4 U                                     | 4 U                                     | 4 U                                     | 4 U                                     | 1.0 U                   |
| Bromomethane                                                                                                                                                                                   | 10                          | 10                           |                        | 7.5                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1.0 U                   |
| Carbon Disulfide                                                                                                                                                                               | 1500                        | 6200                         |                        | 810                    | 1 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 1.0 U                    | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 1.0 U                    | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 1.0 U                                   | 5 U                                     | 5 U                                     | 5 U                                     | 5 U                                     | 5 U                                     | 1.0 U                   |
| Carbon Tetrachloride                                                                                                                                                                           | 5                           | 5                            | 5                      | 0.46                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1.0 U                   |
| Chlorobenzene                                                                                                                                                                                  | 100                         | 100                          | 100                    | 78                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1.0 U                   |
| Chlorodibromomethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.87                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1.0 U                   |
| Chloroethane                                                                                                                                                                                   | 21000                       | 88000                        |                        | 8300                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1.0 U                   |
| Chloroform                                                                                                                                                                                     | 80                          | 80                           |                        | 0.22                   | 1 U                      | 0.58 J                   | 0.52 J                   | 0.73 J                   | 0.75 J                   | 0.74 J                   | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1.0 U                   |
| Chloromethane                                                                                                                                                                                  | 30                          | 30                           |                        | 190                    | 1 U                      | 1 U                      | 1 U                      | 2 U                      | 2 U                      | 2 U                      | 1.0 U                    | 1 U                      | 1 U                      | 2 U                      | 2 U                      | 2 U                      | 1.0 U                    | 1 U                      | 1 U                      | 2 U                      | 2 U                      | 2 U                      | 1.0 U                                   | 1 U                                     | 1 U                                     | 2 U                                     | 2 U                                     | 2 U                                     | 1.0 U                   |
| cis-1,2-Dichloroethene                                                                                                                                                                         | 70                          | 70                           | 70                     | 25                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 44                       | 37                       | 40                       | 40                       | 37                       | 39                       | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 8.8                                     | 16                                      | 17                                      | 18                                      | 7.4                                     | 16                                      | 1.0 U                   |
| cis-1,3-Dichloropropene                                                                                                                                                                        | 6.5                         | 27                           |                        | 0.47                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1.0 U                   |
| Ethylbenzene                                                                                                                                                                                   | 700                         | 700                          | 700                    | 1.5                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1.0 U                   |
| Methyl tert-butyl ether                                                                                                                                                                        | 20                          | 20                           |                        | 14                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1.0 U                   |
| Methylene chloride                                                                                                                                                                             | 5                           | 5                            |                        | 11                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1.0 U                   |
| Styrene                                                                                                                                                                                        | 100                         | 100                          | 100                    | 1200                   | 1 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 1.0 U                    | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 1.0 U                    | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 1.0 U                                   | 5 U                                     | 5 U                                     | 5 U                                     | 5 U                                     | 5 U                                     | 1.0 U                   |
| Tetrachloroethene                                                                                                                                                                              | 5                           | 5                            | 5                      | 11                     | 23 J                     | 21                       | 21                       | 18                       | 14                       | 19                       | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 26                       | 15                       | 20                       | 17                       | 12                       | 18                       | 1.0 U                                   | 0.8 J                                   | 0.9 J                                   | 0.87 J                                  | 0.58 J                                  | 0.85 J                                  | 2.8                     |
| Toluene                                                                                                                                                                                        | 1000                        | 1000                         | 1000                   | 1100                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1.0 U                   |
| trans-1,2-Dichloroethene                                                                                                                                                                       | 100                         | 100                          | 100                    | 68                     | 1 U                      | 1 U                      | 1 U                      | 2 U                      | 2 U                      | 2 U                      | 1.0 U                    | 1 U                      | 1 U                      | 2 U                      | 2 U                      | 2 U                      | 1.0 U                    | 5 U                      | 1 U                      | 2 U                      | 2 U                      | 2 U                      | 1.0 U                                   | 5 U                                     | 1 U                                     | 2 U                                     | 2 U                                     | 2 U                                     | 1.0 U                   |
| trans-1,3-Dichloropropene                                                                                                                                                                      | 6.5                         | 27                           |                        | 0.47                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1.0 U                   |
| Trichloroethene                                                                                                                                                                                | 5                           | 5                            | 5                      | 0.49                   | 0.71 J                   | 0.55 J                   | 0.48 J                   | 0.43 J                   | 0.45 J                   | 0.41 J                   | 46                       | 31                       | 32                       | 30                       | 27                       | 27                       | 1.0 U                    | 0.54 J                   | 0.9 J                    | 0.5 J                    | 0.5 J                    | 0.43 J                   | 13 J                                    | 16                                      | 16                                      | 15                                      | 8.5                                     | 14                                      | 1.0 U                   |
| Vinyl Chloride                                                                                                                                                                                 | 2                           | 2                            | 2                      | 0.019                  | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.0 U                                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1.0 U                   |
| Xylenes (Total)                                                                                                                                                                                | 10000                       | 10000                        | 10000                  | 190                    | 2 U                      | 6 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 2.0 U                    | 6 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 2.0 U                    | 6 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 2.0 U                                   | 6 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                     | 2.0 U                   |

Notes:  
µg/L - Micrograms per liter

U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".

J - Estimated. Detected concentration between the laboratory RL and the Method Detection Limit (MDL) shown as the approximate concentration reported by the laboratory followed by "J". These "J" concentrations were positively identified in the sample and are qualitatively acceptable.

PADEP MSC - Pennsylvania Department of Environmental Protection Statewide health standard Medium-Specific Concentration (November 2021)  
UA R - Used Aquifer Residential  
UA NR - Used Aquifer Non-Residential  
USEPA MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)  
USEPA RSL - United States Environmental Protection Agency Regional Screening Level for Residential Tap Water (TR = 1x10-6 and THQ=1.0) (November 2024)  
Color shaded cell denotes reported concentration greater than regulatory level  
(1) - Annual monitored natural attenuation (MNA) well sample  
(2) - Quarterly Technical Impracticability (TI) Area 1 sample  
(3) - Quarterly Southern Property Boundary Area (SPBA) extraction system performance monitoring sample  
(4) - Monthly SPBA extraction system performance monitoring  
(5) - Annual Northern Property Boundary Area (NPBA) plume assessment well sample

| TABLE 2.2-1<br>Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs) - Wells Outside Technical Impracticability (TI) Boundary<br>Former York Naval Ordnance Plant - York, PA |                             |                              |                        |                        |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                           |                           |                           |                           |                           |                           |                           |                           |                           |                           |                           |                           |                          |                          |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--------------------------|--------------------------|------|
| Location/Identification<br>Depth (feet)<br>Sample Date                                                                                                                                         | PADEP<br>MSC UA R<br>(µg/L) | PADEP<br>MSC UA NR<br>(µg/L) | USEPA<br>MCL<br>(µg/L) | USEPA<br>RSL<br>(µg/L) | GM-1D<br>9/30/20<br>(1) | GM-1D<br>10/5/21<br>(1) | GM-1D<br>10/7/22<br>(1) | GM-1D<br>10/5/23<br>(1) | GM-1D<br>10/3/24<br>(1) | MW-22<br>9/25/19<br>(1) | MW-22<br>10/5/20<br>(1) | MW-22<br>9/28/21<br>(1) | MW-22<br>9/30/22<br>(1) | MW-22<br>9/29/23<br>(1) | MW-22<br>9/27/24<br>(1) | MW-108D<br>9/24/19<br>(1) | MW-108D<br>10/7/20<br>(1) | MW-108D<br>9/29/21<br>(1) | MW-108D<br>9/26/22<br>(1) | MW-108D<br>9/28/23<br>(1) | MW-108D<br>9/26/24<br>(1) | MW-108S<br>9/25/19<br>(1) | MW-108S<br>10/9/20<br>(1) | MW-108S<br>9/30/21<br>(1) | MW-108S<br>9/28/22<br>(1) | MW-108S<br>9/29/23<br>(1) | MW-108S<br>9/27/24<br>(1) | MW-165<br>9/26/19<br>(1) | MW-165<br>10/9/20<br>(1) |      |
| Parameter                                                                                                                                                                                      |                             |                              |                        |                        |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                           |                           |                           |                           |                           |                           |                           |                           |                           |                           |                           |                           |                          |                          |      |
| Volatile Organic Compound                                                                                                                                                                      |                             |                              |                        |                        |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                           |                           |                           |                           |                           |                           |                           |                           |                           |                           |                           |                           |                          |                          |      |
| 1,1,1,2-Tetrachloroethane                                                                                                                                                                      | 70                          | 70                           |                        | 0.57                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1.0 U                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1 U                      |      |
| 1,1,1-Trichloroethane                                                                                                                                                                          | 200                         | 200                          | 200                    | 8000                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1.0 U                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1 U                      |      |
| 1,1,2,2-Tetrachloroethane                                                                                                                                                                      | 0.84                        | 4.3                          |                        | 0.076                  | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1.0 U                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1 U                      |      |
| 1,1,2-Trichloroethane                                                                                                                                                                          | 5                           | 5                            | 5                      | 0.28                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1.0 U                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1 U                      |      |
| 1,1-Dichloroethane                                                                                                                                                                             | 31                          | 160                          |                        | 2.8                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1.0 U                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1 U                      |      |
| 1,1-Dichloroethene                                                                                                                                                                             | 7                           | 7                            | 7                      | 8.2                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1.0 U                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1 U                      |      |
| 1,2-Dibromoethane                                                                                                                                                                              | 0.05                        | 0.05                         | 0.05                   | 0.0075                 | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1.0 U                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1 U                      |      |
| 1,2-Dichloroethane                                                                                                                                                                             | 5                           | 5                            | 5                      | 0.17                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1.0 U                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1 U                      |      |
| 1,2-Dichloropropane                                                                                                                                                                            | 5                           | 5                            | 5                      | 0.85                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1.0 U                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1 U                      |      |
| 2-Butanone                                                                                                                                                                                     | 4000                        | 4000                         |                        | 5600                   | 10 U                    | 10 U                    | 10 U                    | 10 U                    | 10 U                    | 5 U                     | 10 U                    | 10 U                    | 10 U                    | 10 U                    | 10 U                    | 5 U                       | 10 U                      | 10 U                      | 10 U                      | 10 U                      | 10 U                      | 10 U                      | 5 U                       | 10 U                      | 10 U                      | 10 U                      | 10 U                      | 10 U                     | 5 U                      | 10 U |
| 2-Hexanone                                                                                                                                                                                     | 63                          | 260                          |                        | 38                     | 10 U                    | 10 U                    | 10 U                    | 10 U                    | 10 U                    | 5 U                     | 10 U                    | 10 U                    | 10 U                    | 10 U                    | 10 U                    | 5 U                       | 10 U                      | 10 U                      | 10 U                      | 10 U                      | 10 U                      | 10 U                      | 5 U                       | 10 U                      | 10 U                      | 10 U                      | 10 U                      | 10 U                     | 5 U                      | 10 U |
| 4-Methyl-2-Pentanone                                                                                                                                                                           | 2800                        | 7800                         |                        | 6300                   | 10 U                    | 10 U                    | 10 U                    | 10 U                    | 10 U                    | 5 U                     | 10 U                    | 10 U                    | 10 U                    | 10 U                    | 10 U                    | 5 U                       | 10 U                      | 10 U                      | 10 U                      | 10 U                      | 10 U                      | 10 U                      | 5 U                       | 10 U                      | 10 U                      | 10 U                      | 10 U                      | 10 U                     | 5 U                      | 10 U |
| Acetone                                                                                                                                                                                        | 31000                       | 88000                        |                        | 18000                  | 20 U                    | 20 U                    | 20 U                    | 20 U                    | 20 U                    | 5 U                     | 20 U                    | 20 U                    | 20 U                    | 20 U                    | 20 U                    | 5 U                       | 20 U                      | 20 U                      | 20 U                      | 20 U                      | 20 U                      | 20 U                      | 5 U                       | 20 U                      | 20 U                      | 20 U                      | 20 U                      | 20 U                     | 5 U                      | 20 U |
| Benzene                                                                                                                                                                                        | 5                           | 5                            | 5                      | 0.46                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1.0 U                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1 U                      |      |
| Bromochloromethane                                                                                                                                                                             | 90                          | 90                           |                        | 83                     | 5 U                     | 5 U                     | 5 U                     | 5 U                     | 5 U                     | 1 U                     | 5.0 U                   | 5 U                     | 5 U                     | 5 U                     | 5 U                     | 1 U                       | 5 U                       | 5 U                       | 5 U                       | 5 U                       | 5 U                       | 1 U                       | 5 U                       | 5 U                       | 5 U                       | 5 U                       | 5 U                       | 5 U                      | 1 U                      | 5 U  |
| Bromodichloromethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.13                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1.0 U                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1 U                      |      |
| Bromoform                                                                                                                                                                                      | 80                          | 80                           |                        | 3.3                    | 4 U                     | 4 U                     | 4 U                     | 4 U                     | 4 U                     | 1 U                     | 4.0 U                   | 4 U                     | 4 U                     | 4 U                     | 4 U                     | 1 U                       | 4 U                       | 4 U                       | 4 U                       | 4 U                       | 4 U                       | 4 U                       | 1 U                       | 4 U                       | 4 U                       | 4 U                       | 4 U                       | 4 U                      | 1 U                      | 4 U  |
| Bromomethane                                                                                                                                                                                   | 10                          | 10                           |                        | 7.5                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1.0 U                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1 U                      |      |
| Carbon Disulfide                                                                                                                                                                               | 1500                        | 6200                         |                        | 810                    | 5 U                     | 5 U                     | 5 U                     | 5 U                     | 5 U                     | 1 U                     | 5.0 U                   | 5 U                     | 5 U                     | 5 U                     | 5 U                     | 1 U                       | 5 U                       | 5 U                       | 5 U                       | 5 U                       | 5 U                       | 5 U                       | 1 U                       | 5 U                       | 5 U                       | 5 U                       | 5 U                       | 5 U                      | 1 U                      | 5 U  |
| Carbon Tetrachloride                                                                                                                                                                           | 5                           | 5                            | 5                      | 0.46                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1.0 U                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1 U                      |      |
| Chlorobenzene                                                                                                                                                                                  | 100                         | 100                          | 100                    | 78                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1.0 U                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1 U                      |      |
| Chlorodibromomethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.87                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1.0 U                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1 U                      |      |
| Chloroethane                                                                                                                                                                                   | 21000                       | 88000                        |                        | 8300                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1.0 U                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1 U                      |      |
| Chloroform                                                                                                                                                                                     | 80                          | 80                           |                        | 0.22                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1.0 U                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                       | 0.39 J                    | 0.39 J                    | 0.39 J                    | 0.35 J                    | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 0.39 J                    | 3.9                       | 3.7                       | 1 U                      | 1 U                      |      |
| Chloromethane                                                                                                                                                                                  | 30                          | 30                           |                        | 190                    | 1 U                     | 1 U                     | 2 U                     | 2 U                     | 2 U                     | 1 U                     | 1.0 U                   | 1 U                     | 2 U                     | 2 U                     | 2 U                     | 1 U                       | 1 U                       | 1 U                       | 2 U                       | 2 U                       | 2 U                       | 1 U                       | 1 U                       | 1 U                       | 2 U                       | 2 U                       | 2 U                       | 1 U                      | 1 U                      |      |
| cis-1,2-Dichloroethene                                                                                                                                                                         | 70                          | 70                           | 70                     | 25                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 0.20 J                  | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1 U                      |      |
| cis-1,3-Dichloropropene                                                                                                                                                                        | 6.5                         | 27                           |                        | 0.47                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1.0 U                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1 U                      |      |
| Ethylbenzene                                                                                                                                                                                   | 700                         | 700                          | 700                    | 1.5                    | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1.0 U                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1 U                      |      |
| Methyl tert-butyl ether                                                                                                                                                                        | 20                          | 20                           |                        | 14                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1.0 U                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1 U                      |      |
| Methylene chloride                                                                                                                                                                             | 5                           | 5                            |                        | 11                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1.0 U                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1 U                      |      |
| Styrene                                                                                                                                                                                        | 100                         | 100                          | 100                    | 1200                   | 5 U                     | 5 U                     | 5 U                     | 5 U                     | 5 U                     | 1 U                     | 5.0 U                   | 5 U                     | 5 U                     | 5 U                     | 5 U                     | 1 U                       | 5 U                       | 5 U                       | 5 U                       | 5 U                       | 5 U                       | 5 U                       | 1 U                       | 5 U                       | 5 U                       | 5 U                       | 5 U                       | 5 U                      | 1 U                      | 5 U  |
| Tetrachloroethene                                                                                                                                                                              | 5                           | 5                            | 5                      | 11                     | 1.3                     | 8.8                     | 0.41 J                  | 1.8                     | 0.67 J                  | 5.2                     | 8.6                     | 2.4                     | 5.5                     | 5.9                     | 4.9                     | 0.48 J                    | 0.33 J                    | 0.32 J                    | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 3.6                      | 3.1                      |      |
| Toluene                                                                                                                                                                                        | 1000                        | 1000                         | 1000                   | 1100                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1.0 U                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1 U                      |      |
| trans-1,2-Dichloroethene                                                                                                                                                                       | 100                         | 100                          | 100                    | 68                     | 1 U                     | 1 U                     | 2 U                     | 2 U                     | 2 U                     | 1 U                     | 5.0 U                   | 1 U                     | 2 U                     | 2 U                     | 2 U                     | 1 U                       | 5 U                       | 1 U                       | 2 U                       | 2 U                       | 2 U                       | 1 U                       | 5 U                       | 1 U                       | 2 U                       | 2 U                       | 2 U                       | 1 U                      | 5 U                      |      |
| trans-1,3-Dichloropropene                                                                                                                                                                      | 6.5                         | 27                           |                        | 0.47                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1.0 U                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1 U                      |      |
| Trichloroethene                                                                                                                                                                                | 5                           | 5                            | 5                      | 0.49                   | 1 U                     | 0.39 J                  | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 4.4                     | 3.2                     | 1.8                     | 2.3                     | 1.8                     | 1 U                       | 0.29 J                    | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 3.3                      | 2.2                      |      |
| Vinyl Chloride                                                                                                                                                                                 | 2                           | 2                            | 2                      | 0.019                  | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1.0 U                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                      | 1 U                      |      |
| Xylenes (Total)                                                                                                                                                                                | 10000                       | 10000                        | 10000                  | 190                    | 6 U                     | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 2 U                     | 6.0 U                   | 1 U                     | 1 U                     | 1 U                     | 1 U                     | 2 U                       | 6 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 2 U                       | 6 U                       | 1 U                       | 1 U                       | 1 U                       | 1 U                       | 2 U                      | 6 U                      |      |

Notes:  
µg/L - Micrograms per liter

U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".

J - Estimated. Detected concentration between the laboratory RL and the Method Detection Limit (MDL) shown as the approximate concentration reported by the laboratory followed by "J". These "J" concentrations were positively identified in the sample and are qualitatively acceptable.

PADEP MSC - Pennsylvania Department of Environmental Protection Statewide health standard Medium-Specific Concentration (November 2021)  
UA R - Used Aquifer Residential  
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Color shaded cell denotes reported concentration greater than regulatory level  
(1) - Annual monitored natural attenuation (MNA) well sample  
(2) - Quarterly Technical Impracticability (TI) Area 1 sample  
(3) - Quarterly Southern Property Boundary Area (SPBA) extraction system performance monitoring sample  
(4) - Monthly SPBA extraction system performance monitoring  
(5) - Annual Northern Property Boundary Area (NPBA) plume assessment well sample



| TABLE 2.2-1<br>Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs) - Wells Outside Technical Impracticability (TI) Boundary<br>Former York Naval Ordnance Plant - York, PA |                             |                              |                        |                        |                          |                          |                          |                          |                           |                          |                          |                            |                           |                          |                          |                             |                           |                          |                          |                            |                           |                          |                          |                         |                          |                         |                          |                          |                          |                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|------------------------|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|--------------------------|--------------------------|----------------------------|---------------------------|--------------------------|--------------------------|-----------------------------|---------------------------|--------------------------|--------------------------|----------------------------|---------------------------|--------------------------|--------------------------|-------------------------|--------------------------|-------------------------|--------------------------|--------------------------|--------------------------|----------------------------|
| Location/Identification<br>Depth (feet)<br>Sample Date                                                                                                                                         | PADEP<br>MSC UA R<br>(µg/L) | PADEP<br>MSC UA NR<br>(µg/L) | USEPA<br>MCL<br>(µg/L) | USEPA<br>RSL<br>(µg/L) | MW-165<br>9/30/21<br>(1) | MW-165<br>9/28/22<br>(1) | MW-165<br>9/29/23<br>(1) | MW-165<br>10/4/24<br>(1) | MW-166<br>12/20/18<br>(3) | MW-166<br>3/29/19<br>(3) | MW-166<br>6/28/19<br>(3) | MW-166<br>9/25/19<br>(1/3) | MW-166<br>12/18/19<br>(3) | MW-166<br>3/25/20<br>(3) | MW-166<br>6/24/20<br>(3) | MW-166<br>10/15/20<br>(1/3) | MW-166<br>12/23/20<br>(3) | MW-166<br>3/24/21<br>(3) | MW-166<br>6/24/21<br>(3) | MW-166<br>9/23/21<br>(1/3) | MW-166<br>12/22/21<br>(3) | MW-166<br>1/11/22<br>(4) | MW-166<br>1/27/22<br>(4) | MW-166<br>2/8/22<br>(4) | MW-166<br>2/22/22<br>(4) | MW-166<br>3/8/22<br>(4) | MW-166<br>3/23/22<br>(4) | MW-166<br>4/26/22<br>(4) | MW-166<br>5/25/22<br>(4) | MW-166<br>9/27/22<br>(1/3) |
| Parameter                                                                                                                                                                                      |                             |                              |                        |                        |                          |                          |                          |                          |                           |                          |                          |                            |                           |                          |                          |                             |                           |                          |                          |                            |                           |                          |                          |                         |                          |                         |                          |                          |                          |                            |
| Volatile Organic Compound                                                                                                                                                                      |                             |                              |                        |                        |                          |                          |                          |                          |                           |                          |                          |                            |                           |                          |                          |                             |                           |                          |                          |                            |                           |                          |                          |                         |                          |                         |                          |                          |                          |                            |
| 1,1,1,2-Tetrachloroethane                                                                                                                                                                      | 70                          | 70                           |                        | 0.57                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        |
| 1,1,1-Trichloroethane                                                                                                                                                                          | 200                         | 200                          | 200                    | 8000                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        |
| 1,1,2,2-Tetrachloroethane                                                                                                                                                                      | 0.84                        | 4.3                          |                        | 0.076                  | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 UJ                     | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        |
| 1,1,2-Trichloroethane                                                                                                                                                                          | 5                           | 5                            | 5                      | 0.28                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        |
| 1,1-Dichloroethane                                                                                                                                                                             | 31                          | 160                          |                        | 2.8                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        |
| 1,1-Dichloroethene                                                                                                                                                                             | 7                           | 7                            | 7                      | 8.2                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        |
| 1,2-Dibromoethane                                                                                                                                                                              | 0.05                        | 0.05                         | 0.05                   | 0.0075                 | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        |
| 1,2-Dichloroethane                                                                                                                                                                             | 5                           | 5                            | 5                      | 0.17                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        |
| 1,2-Dichloropropane                                                                                                                                                                            | 5                           | 5                            | 5                      | 0.85                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        |
| 2-Butanone                                                                                                                                                                                     | 4000                        | 4000                         |                        | 5600                   | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 5 U                       | 5 U                      | 5.0 U                    | 5 U                        | 5.0 U                     | 5 U                      | 10 U                     | 10 U                        | 10 U                      | 10 U                     | 10 U                     | 10 U                       | 10 U                      | 10 U                     | 10 U                     | 10 U                    | 10 U                     | 10 U                    | 10 U                     | 10 U                     | 10 U                     | 10 U                       |
| 2-Hexanone                                                                                                                                                                                     | 63                          | 260                          |                        | 38                     | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 5 U                       | 5 UJ                     | 5.0 U                    | 5 U                        | 5.0 U                     | 5 U                      | 10 U                     | 10 U                        | 10 UJ                     | 10 U                     | 10 U                     | 10 U                       | 10 U                      | 10 U                     | 10 U                     | 10 U                    | 10 U                     | 10 U                    | 10 U                     | 10 U                     | 10 U                     | 10 U                       |
| 4-Methyl-2-Pentanone                                                                                                                                                                           | 2800                        | 7800                         |                        | 6300                   | 10 U                     | 10 U                     | 10 U                     | 10 U                     | 5 U                       | 5 UJ                     | 5.0 U                    | 5 U                        | 5.0 U                     | 5 UJ                     | 10 U                     | 10 U                        | 10 U                      | 10 U                     | 10 U                     | 10 U                       | 10 U                      | 10 U                     | 10 U                     | 10 U                    | 10 U                     | 10 U                    | 10 U                     | 10 U                     | 10 U                     | 10 U                       |
| Acetone                                                                                                                                                                                        | 31000                       | 88000                        |                        | 18000                  | 20 U                     | 20 U                     | 20 U                     | 20 U                     | 1.0 U                     | 5 U                      | 5.0 U                    | 5 U                        | 5.0 UJ                    | 5 U                      | 20 U                     | 20 U                        | 20 U                      | 20 U                     | 20 U                     | 20 U                       | 20 U                      | 20 U                     | 20 U                     | 20 U                    | 1.1 J                    | 20 U                    | 2.6 J                    | 3 J                      | 20 U                     | 20 U                       |
| Benzene                                                                                                                                                                                        | 5                           | 5                            | 5                      | 0.46                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        |
| Bromochloromethane                                                                                                                                                                             | 90                          | 90                           |                        | 83                     | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 5 U                      | 5 U                         | 5 U                       | 5 U                      | 5 U                      | 5 U                        | 5 U                       | 5 U                      | 5 U                      | 5 U                     | 5 U                      | 5 U                     | 5 U                      | 5 U                      | 5 U                      | 5 U                        |
| Bromodichloromethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.13                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        |
| Bromoform                                                                                                                                                                                      | 80                          | 80                           |                        | 3.3                    | 4 U                      | 4 U                      | 4 U                      | 4 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 4 U                      | 4 U                         | 4 U                       | 4 U                      | 4 U                      | 4 U                        | 4 U                       | 4 U                      | 4 U                      | 4 U                     | 4 U                      | 4 U                     | 4 U                      | 4 U                      | 4 U                      | 4 U                        |
| Bromomethane                                                                                                                                                                                   | 10                          | 10                           |                        | 7.5                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 UJ                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 UJ                     | 1 U                      | 1 U                        |
| Carbon Disulfide                                                                                                                                                                               | 1500                        | 6200                         |                        | 810                    | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 5 U                      | 5 U                         | 5 U                       | 5 U                      | 5 U                      | 5 U                        | 5 U                       | 5 U                      | 5 U                      | 5 U                     | 5 U                      | 5 U                     | 5 U                      | 5 U                      | 5 U                      | 5 U                        |
| Carbon Tetrachloride                                                                                                                                                                           | 5                           | 5                            | 5                      | 0.46                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        |
| Chlorobenzene                                                                                                                                                                                  | 100                         | 100                          | 100                    | 78                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        |
| Chlorodibromomethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.87                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        |
| Chloroethane                                                                                                                                                                                   | 21000                       | 88000                        |                        | 8300                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        |
| Chloroform                                                                                                                                                                                     | 80                          | 80                           |                        | 0.22                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1.3                       | 0.84 J                   | 1.0 U                    | 0.66 J                     | 1.0 U                     | 1 U                      | 0.98 J                   | 0.69 J                      | 0.52 J                    | 0.47 J                   | 0.76 J                   | 0.5 J                      | 0.6 J                     | 0.48 J                   | 0.35 J                   | 0.47 J                  | 0.58 J                   | 0.48 J                  | 0.55 J                   | 0.45 J                   | 0.55 J                   | 0.65 J                     |
| Chloromethane                                                                                                                                                                                  | 30                          | 30                           |                        | 190                    | 1 U                      | 2 U                      | 2 U                      | 2 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 UJ                    | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 UJ                     | 1 U                      | 2 U                        |
| cis-1,2-Dichloroethene                                                                                                                                                                         | 70                          | 70                           | 70                     | 25                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        |
| cis-1,3-Dichloropropene                                                                                                                                                                        | 6.5                         | 27                           |                        | 0.47                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        |
| Ethylbenzene                                                                                                                                                                                   | 700                         | 700                          | 700                    | 1.5                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        |
| Methyl tert-butyl ether                                                                                                                                                                        | 20                          | 20                           |                        | 14                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        |
| Methylene chloride                                                                                                                                                                             | 5                           | 5                            |                        | 11                     | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        |
| Styrene                                                                                                                                                                                        | 100                         | 100                          | 100                    | 1200                   | 5 U                      | 5 U                      | 5 U                      | 5 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 5 U                      | 5 U                         | 5 U                       | 5 U                      | 5 U                      | 5 U                        | 5 U                       | 5 U                      | 5 U                      | 5 U                     | 5 U                      | 5 U                     | 5 U                      | 5 U                      | 5 U                      | 5 U                        |
| Tetrachloroethene                                                                                                                                                                              | 5                           | 5                            | 5                      | 11                     | 3                        | 2.8                      | 2.5                      | 2.6                      | 1.1                       | 0.7 J                    | 0.75 J                   | 0.83 J                     | 0.63 J                    | 0.48 J                   | 0.66 J                   | 0.98 J                      | 0.59 J                    | 0.62 J                   | 0.55 J                   | 0.48 J                     | 70                        | 39                       | 14                       | 13                      | 9.3                      | 8.5                     | 7.2                      | 4.8                      | 3.2                      | 2.2                        |
| Toluene                                                                                                                                                                                        | 1000                        | 1000                         | 1000                   | 1100                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        |
| trans-1,2-Dichloroethene                                                                                                                                                                       | 100                         | 100                          | 100                    | 68                     | 1 U                      | 2 U                      | 2 U                      | 2 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 5 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 2 U                        |
| trans-1,3-Dichloropropene                                                                                                                                                                      | 6.5                         | 27                           |                        | 0.47                   | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        |
| Trichloroethene                                                                                                                                                                                | 5                           | 5                            | 5                      | 0.49                   | 2                        | 1.2                      | 1.1                      | 0.75 J                   | 1.5                       | 0.92 J                   | 0.88 J                   | 1.3                        | 0.71 J                    | 1 U                      | 0.96 J                   | 0.87 J                      | 0.6 J                     | 0.53 J                   | 0.66 J                   | 0.43 J                     | 4.9                       | 3.0                      | 1.2                      | 1.3                     | 0.98 J                   | 0.93 J                  | 0.85 J                   | 0.75 J                   | 0.51 J                   | 0.54 J                     |
| Vinyl Chloride                                                                                                                                                                                 | 2                           | 2                            | 2                      | 0.019                  | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 1 U                       | 1 U                      | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 UJ                     | 1 U                      | 1 U                        |
| Xylenes (Total)                                                                                                                                                                                | 10000                       | 10000                        | 10000                  | 190                    | 1 U                      | 1 U                      | 1 U                      | 1 U                      | 2 U                       | 2 U                      | 2.0 U                    | 2 U                        | 2.0 U                     | 2 U                      | 6 U                      | 6 U                         | 6 U                       | 6 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        |

Notes:  
µg/L - Micrograms per liter

U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".

J - Estimated. Detected concentration between the laboratory RL and the Method Detection Limit (MDL) shown as the approximate concentration reported by the laboratory followed by "J".  
These "J" concentrations were positively identified in the sample and are qualitatively acceptable.

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Medium-Specific Concentration (November 2021)  
UA R - Used Aquifer Residential  
UA NR - Used Aquifer Non-Residential  
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USEPA RSL - United States Environmental Protection Agency Regional Screening Level for Residential Tap Water (TR = 1x10-6 and THQ=1.0) (November 2024)  
Color shaded cell denotes reported concentration greater than regulatory level  
(1) - Annual monitored natural attenuation (MNA) well sample  
(2) - Quarterly Technical Impracticability (TI) Area 1 sample  
(3) - Quarterly Southern Property Boundary Area (SPBA) extraction system performance monitoring sample  
(4) - Monthly SPBA extraction system performance monitoring  
(5) - Annual Northern Property Boundary Area (NPBA) plume assessment well sample

| TABLE 2.2-1<br>Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs) - Wells Outside Technical Impracticability (TI) Boundary<br>Former York Naval Ordnance Plant - York, PA |                             |                              |                        |                        |                          |                          |                          |                            |                           |                          |                          |                            |                           |                           |                          |                         |                          |                            |                           |                          |                          |                             |                           |                          |                          |                            |                           |                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|------------------------|------------------------|--------------------------|--------------------------|--------------------------|----------------------------|---------------------------|--------------------------|--------------------------|----------------------------|---------------------------|---------------------------|--------------------------|-------------------------|--------------------------|----------------------------|---------------------------|--------------------------|--------------------------|-----------------------------|---------------------------|--------------------------|--------------------------|----------------------------|---------------------------|--------------------------|
| Location/Identification<br>Depth (feet)<br>Sample Date                                                                                                                                         | PADEP<br>MSC UA R<br>(µg/L) | PADEP<br>MSC UA NR<br>(µg/L) | USEPA<br>MCL<br>(µg/L) | USEPA<br>RSL<br>(µg/L) | MW-166<br>1/25/23<br>(3) | MW-166<br>3/22/23<br>(3) | MW-166<br>6/20/23<br>(3) | MW-166<br>9/28/23<br>(1/3) | MW-166<br>12/20/23<br>(3) | MW-166<br>3/20/24<br>(3) | MW-166<br>6/26/24<br>(3) | MW-166<br>9/26/24<br>(1/3) | MW-166<br>12/18/24<br>(3) | MW-167<br>12/20/18<br>(3) | MW-167<br>3/29/19<br>(3) | MW-167<br>5/1/19<br>(3) | MW-167<br>6/28/19<br>(3) | MW-167<br>9/25/19<br>(1/3) | MW-167<br>12/18/19<br>(3) | MW-167<br>3/25/20<br>(3) | MW-167<br>6/24/20<br>(3) | MW-167<br>10/15/20<br>(1/3) | MW-167<br>12/23/20<br>(3) | MW-167<br>3/24/21<br>(3) | MW-167<br>6/24/21<br>(3) | MW-167<br>9/23/21<br>(1/3) | MW-167<br>12/22/21<br>(3) | MW-167<br>1/27/22<br>(4) |
| Volatile Organic Compound                                                                                                                                                                      |                             |                              |                        |                        |                          |                          |                          |                            |                           |                          |                          |                            |                           |                           |                          |                         |                          |                            |                           |                          |                          |                             |                           |                          |                          |                            |                           |                          |
| 1,1,1,2-Tetrachloroethane                                                                                                                                                                      | 70                          | 70                           |                        | 0.57                   | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 UJ                      | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |
| 1,1,1-Trichloroethane                                                                                                                                                                          | 200                         | 200                          | 200                    | 8000                   | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 UJ                      | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |
| 1,1,2,2-Tetrachloroethane                                                                                                                                                                      | 0.84                        | 4.3                          |                        | 0.076                  | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 UJ                     | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |
| 1,1,2-Trichloroethane                                                                                                                                                                          | 5                           | 5                            | 5                      | 0.28                   | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |
| 1,1-Dichloroethane                                                                                                                                                                             | 31                          | 160                          |                        | 2.8                    | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |
| 1,1-Dichloroethene                                                                                                                                                                             | 7                           | 7                            | 7                      | 8.2                    | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |
| 1,2-Dibromoethane                                                                                                                                                                              | 0.05                        | 0.05                         | 0.05                   | 0.0075                 | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |
| 1,2-Dichloroethane                                                                                                                                                                             | 5                           | 5                            | 5                      | 0.17                   | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |
| 1,2-Dichloropropane                                                                                                                                                                            | 5                           | 5                            | 5                      | 0.85                   | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |
| 2-Butanone                                                                                                                                                                                     | 4000                        | 4000                         |                        | 5600                   | 10 U                     | 10 U                     | 10 U                     | 10 U                       | 10 U                      | 10 U                     | 10 U                     | 10 U                       | 10 U                      | 5 U                       | 5 U                      | 5 U                     | 5.0 U                    | 5 U                        | 5.0 U                     | 5 U                      | 10 U                     | 10 U                        | 10 U                      | 10 U                     | 10 U                     | 10 U                       | 10 U                      | 10 U                     |
| 2-Hexanone                                                                                                                                                                                     | 63                          | 260                          |                        | 38                     | 10 U                     | 10 U                     | 10 U                     | 10 U                       | 10 U                      | 10 U                     | 10 U                     | 10 U                       | 10 U                      | 5 U                       | 5 UJ                     | 5 U                     | 5.0 U                    | 5 U                        | 5.0 U                     | 5 U                      | 10 U                     | 10 U                        | 10 UJ                     | 10 U                     | 10 U                     | 10 U                       | 10 U                      | 10 U                     |
| 4-Methyl-2-Pentanone                                                                                                                                                                           | 2800                        | 7800                         |                        | 6300                   | 10 U                     | 10 U                     | 10 U                     | 10 U                       | 10 U                      | 10 U                     | 10 U                     | 10 U                       | 10 U                      | 5 U                       | 5 UJ                     | 5 U                     | 5.0 U                    | 5 U                        | 5.0 U                     | 5 UJ                     | 10 U                     | 10 U                        | 10 U                      | 10 U                     | 10 U                     | 10 U                       | 10 U                      | 10 U                     |
| Acetone                                                                                                                                                                                        | 31000                       | 88000                        |                        | 18000                  | 20 U                     | 20 U                     | 20 U                     | 20 U                       | 20 U                      | 20 U                     | 20 U                     | 20 U                       | 20 U                      | 5 U                       | 5 U                      | 5 U                     | 5.0 U                    | 5 U                        | 5.0 UJ                    | 5 U                      | 20 U                     | 20 U                        | 20 U                      | 20 U                     | 20 U                     | 20 U                       | 20 U                      | 20 U                     |
| Benzene                                                                                                                                                                                        | 5                           | 5                            | 5                      | 0.46                   | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |
| Bromochloromethane                                                                                                                                                                             | 90                          | 90                           |                        | 83                     | 5 U                      | 5 U                      | 5 U                      | 5 U                        | 5 U                       | 5 U                      | 5 U                      | 5 U                        | 5 U                       | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 5 U                      | 5 U                         | 5 U                       | 5 U                      | 5 U                      | 5 U                        | 5 U                       | 5 U                      |
| Bromodichloromethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.13                   | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |
| Bromoform                                                                                                                                                                                      | 80                          | 80                           |                        | 3.3                    | 4 U                      | 4 U                      | 4 U                      | 4 U                        | 4 U                       | 4 U                      | 4 U                      | 4 UJ                       | 4 UJ                      | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 4 U                      | 4 U                         | 4 U                       | 4 U                      | 4 U                      | 4 U                        | 4 U                       | 4 U                      |
| Bromomethane                                                                                                                                                                                   | 10                          | 10                           |                        | 7.5                    | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 UJ                     | 1 U                        | 1 U                       | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 UJ                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |
| Carbon Disulfide                                                                                                                                                                               | 1500                        | 6200                         |                        | 810                    | 5 U                      | 5 U                      | 5 U                      | 5 U                        | 5 U                       | 5 U                      | 5 U                      | 5 U                        | 5 U                       | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 5 U                      | 5 U                         | 5 U                       | 5 U                      | 5 U                      | 5 U                        | 5 U                       | 5 U                      |
| Carbon Tetrachloride                                                                                                                                                                           | 5                           | 5                            | 5                      | 0.46                   | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 UJ                      | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |
| Chlorobenzene                                                                                                                                                                                  | 100                         | 100                          | 100                    | 78                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |
| Chlorodibromomethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.87                   | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |
| Chloroethane                                                                                                                                                                                   | 21000                       | 88000                        |                        | 8300                   | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |
| Chloroform                                                                                                                                                                                     | 80                          | 80                           |                        | 0.22                   | 0.67 J                   | 0.65 J                   | 0.74 J                   | 0.77 J                     | 0.70 J                    | 0.50 U                   | 1 U                      | 0.58 J                     | 0.55 J                    | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 0.2 J                    | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |
| Chloromethane                                                                                                                                                                                  | 30                          | 30                           |                        | 190                    | 2 U                      | 2 U                      | 2 U                      | 2 U                        | 2 U                       | 2 U                      | 2 UJ                     | 2 U                        | 2 U                       | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 UJ                    | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |
| cis-1,2-Dichloroethene                                                                                                                                                                         | 70                          | 70                           | 70                     | 25                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |
| cis-1,3-Dichloropropene                                                                                                                                                                        | 6.5                         | 27                           |                        | 0.47                   | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |
| Ethylbenzene                                                                                                                                                                                   | 700                         | 700                          | 700                    | 1.5                    | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |
| Methyl tert-butyl ether                                                                                                                                                                        | 20                          | 20                           |                        | 14                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |
| Methylene chloride                                                                                                                                                                             | 5                           | 5                            |                        | 11                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |
| Styrene                                                                                                                                                                                        | 100                         | 100                          | 100                    | 1200                   | 5 U                      | 5 U                      | 5 U                      | 5 U                        | 5 U                       | 5 U                      | 5 U                      | 5 U                        | 1 U                       | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 5 U                      | 5 U                         | 5 U                       | 5 U                      | 5 U                      | 5 U                        | 5 U                       | 5 U                      |
| Tetrachloroethene                                                                                                                                                                              | 5                           | 5                            | 5                      | 11                     | 1.7                      | 1.4                      | 1.1                      | 1.2                        | 1.1                       | 0.89 J                   | 0.65 J                   | 0.63 J                     | 0.68 J                    | 2.6                       | 9.8                      | 3.6                     | 4.4                      | 14                         | 7.6                       | 2.9                      | 2.4                      | 5.8                         | 4.0                       | 2.7                      | 3.6                      | 3.2                        | 3.7                       | 2.0                      |
| Toluene                                                                                                                                                                                        | 1000                        | 1000                         | 1000                   | 1100                   | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |
| trans-1,2-Dichloroethene                                                                                                                                                                       | 100                         | 100                          | 100                    | 68                     | 2 U                      | 2 U                      | 2 U                      | 2 U                        | 2 U                       | 2 U                      | 2 U                      | 2 U                        | 2 U                       | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 5 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |
| trans-1,3-Dichloropropene                                                                                                                                                                      | 6.5                         | 27                           |                        | 0.47                   | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 UJ                      | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |
| Trichloroethene                                                                                                                                                                                | 5                           | 5                            | 5                      | 0.49                   | 0.57 J                   | 0.61 J                   | 1 U                      | 0.58 J                     | 0.49 J                    | 0.49 J                   | 0.43 J                   | 0.35 J                     | 0.49 J                    | 6.9                       | 5.0                      | 1.8                     | 1.6                      | 5.9                        | 3.0                       | 0.87 J                   | 0.7 J                    | 1.8                         | 1.3                       | 1 U                      | 1.2                      | 0.58 J                     | 0.95 J                    | 0.45 J                   |
| Vinyl Chloride                                                                                                                                                                                 | 2                           | 2                            | 2                      | 0.019                  | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 UJ                     | 1 U                        | 1 U                       | 1 U                       | 1 U                      | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |
| Xylenes (Total)                                                                                                                                                                                | 10000                       | 10000                        | 10000                  | 190                    | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 2 U                       | 2 U                      | 2 U                     | 2.0 U                    | 2 U                        | 2.0 U                     | 2 U                      | 6 U                      | 6 U                         | 6 U                       | 6 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      |

Notes:  
µg/L - Micrograms per liter

U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".

J - Estimated. Detected concentration between the laboratory RL and the Method Detection Limit (MDL) shown as the approximate concentration reported by the laboratory followed by "J". These "J" concentrations were positively identified in the sample and are qualitatively acceptable.

PADEP MSC - Pennsylvania Department of Environmental Protection Statewide health standard  
Medium-Specific Concentration (November 2021)  
UA R - Used Aquifer Residential  
UA NR - Used Aquifer Non-Residential  
USEPA MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)  
USEPA RSL - United States Environmental Protection Agency Regional Screening Level for Residential Tap Water (TR = 1x10-6 and THQ=1.0) (November 2024)  
Color shaded cell denotes reported concentration greater than regulatory level  
(1) - Annual monitored natural attenuation (MNA) well sample  
(2) - Quarterly Technical Impracticability (TI) Area 1 sample  
(3) - Quarterly Southern Property Boundary Area (SPBA) extraction system performance monitoring sample  
(4) - Monthly SPBA extraction system performance monitoring  
(5) - Annual Northern Property Boundary Area (NPBA) plume assessment well sample

| TABLE 2.2-1<br>Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs) - Wells Outside Technical Impracticability (TI) Boundary<br>Former York Naval Ordnance Plant - York, PA |                             |                              |                        |                        |                         |                          |                         |                          |                          |                          |                            |                          |                          |                          |                            |                           |                          |                          |                            |                           |                           |                         |                          |                            |                           |                          |                          |                             |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|------------------------|------------------------|-------------------------|--------------------------|-------------------------|--------------------------|--------------------------|--------------------------|----------------------------|--------------------------|--------------------------|--------------------------|----------------------------|---------------------------|--------------------------|--------------------------|----------------------------|---------------------------|---------------------------|-------------------------|--------------------------|----------------------------|---------------------------|--------------------------|--------------------------|-----------------------------|------|
| Location/Identification<br>Depth (feet)<br>Sample Date                                                                                                                                         | PADEP<br>MSC UA R<br>(µg/L) | PADEP<br>MSC UA NR<br>(µg/L) | USEPA<br>MCL<br>(µg/L) | USEPA<br>RSL<br>(µg/L) | MW-167<br>2/8/22<br>(4) | MW-167<br>2/22/22<br>(4) | MW-167<br>3/8/22<br>(4) | MW-167<br>3/23/22<br>(4) | MW-167<br>4/26/22<br>(4) | MW-167<br>5/25/22<br>(4) | MW-167<br>9/27/22<br>(1/3) | MW-167<br>1/25/23<br>(3) | MW-167<br>3/22/23<br>(3) | MW-167<br>6/20/23<br>(3) | MW-167<br>9/28/23<br>(1/3) | MW-167<br>12/20/23<br>(3) | MW-167<br>3/20/24<br>(3) | MW-167<br>6/26/24<br>(3) | MW-167<br>9/26/24<br>(1/3) | MW-167<br>12/18/24<br>(3) | MW-168<br>12/20/18<br>(3) | MW-168<br>4/2/19<br>(3) | MW-168<br>6/28/19<br>(3) | MW-168<br>9/25/19<br>(1/3) | MW-168<br>12/18/19<br>(3) | MW-168<br>3/25/20<br>(3) | MW-168<br>6/24/20<br>(3) | MW-168<br>10/15/20<br>(1/3) |      |
| Volatile Organic Compound                                                                                                                                                                      |                             |                              |                        |                        |                         |                          |                         |                          |                          |                          |                            |                          |                          |                          |                            |                           |                          |                          |                            |                           |                           |                         |                          |                            |                           |                          |                          |                             |      |
| 1,1,1,2-Tetrachloroethane                                                                                                                                                                      | 70                          | 70                           |                        | 0.57                   | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         |      |
| 1,1,1-Trichloroethane                                                                                                                                                                          | 200                         | 200                          | 200                    | 8000                   | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         |      |
| 1,1,2,2-Tetrachloroethane                                                                                                                                                                      | 0.84                        | 4.3                          |                        | 0.076                  | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         |      |
| 1,1,2-Trichloroethane                                                                                                                                                                          | 5                           | 5                            | 5                      | 0.28                   | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         |      |
| 1,1-Dichloroethane                                                                                                                                                                             | 31                          | 160                          |                        | 2.8                    | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         |      |
| 1,1-Dichloroethene                                                                                                                                                                             | 7                           | 7                            | 7                      | 8.2                    | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         |      |
| 1,2-Dibromoethane                                                                                                                                                                              | 0.05                        | 0.05                         | 0.05                   | 0.0075                 | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         |      |
| 1,2-Dichloroethane                                                                                                                                                                             | 5                           | 5                            | 5                      | 0.17                   | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         |      |
| 1,2-Dichloropropane                                                                                                                                                                            | 5                           | 5                            | 5                      | 0.85                   | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         |      |
| 2-Butanone                                                                                                                                                                                     | 4000                        | 4000                         |                        | 5600                   | 10 U                    | 10 U                     | 10 U                    | 10 U                     | 10 U                     | 10 U                     | 10 U                       | 10 U                     | 10 U                     | 10 U                     | 10 U                       | 10 U                      | 10 U                     | 10 U                     | 10 U                       | 10 U                      | 10 U                      | 5 U                     | 5 U                      | 5.0 U                      | 5 U                       | 5.0 U                    | 5 U                      | 10 U                        | 10 U |
| 2-Hexanone                                                                                                                                                                                     | 63                          | 260                          |                        | 38                     | 10 U                    | 10 U                     | 10 U                    | 10 U                     | 10 U                     | 10 U                     | 10 U                       | 10 U                     | 10 U                     | 10 U                     | 10 U                       | 10 U                      | 10 U                     | 10 U                     | 10 U                       | 10 U                      | 10 U                      | 5 U                     | 5 U                      | 5.0 U                      | 5 U                       | 5.0 U                    | 5 U                      | 10 U                        | 10 U |
| 4-Methyl-2-Pentanone                                                                                                                                                                           | 2800                        | 7800                         |                        | 6300                   | 10 U                    | 10 U                     | 10 U                    | 10 U                     | 10 U                     | 10 U                     | 10 U                       | 10 U                     | 10 U                     | 10 U                     | 10 U                       | 10 U                      | 10 U                     | 10 U                     | 10 U                       | 10 U                      | 10 U                      | 5 U                     | 5 U                      | 5.0 U                      | 5 U                       | 5.0 U                    | 5 U                      | 10 U                        | 10 U |
| Acetone                                                                                                                                                                                        | 31000                       | 88000                        |                        | 18000                  | 20 U                    | 20 U                     | 20 U                    | 20 U                     | 20 U                     | 20 U                     | 20 U                       | 20 U                     | 20 U                     | 20 U                     | 20 U                       | 20 U                      | 20 U                     | 20 U                     | 1.8 J                      | 20 U                      | 5 U                       | 5 U                     | 5.0 U                    | 5 U                        | 5.0 U                     | 5 U                      | 20 U                     | 20 U                        |      |
| Benzene                                                                                                                                                                                        | 5                           | 5                            | 5                      | 0.46                   | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         |      |
| Bromochloromethane                                                                                                                                                                             | 90                          | 90                           |                        | 83                     | 5 U                     | 5 U                      | 5 U                     | 5 U                      | 5 U                      | 5 U                      | 5 U                        | 5 U                      | 5 U                      | 5 U                      | 5 U                        | 5 U                       | 5 U                      | 5 U                      | 5 U                        | 5 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 5 U                      | 5 U                         |      |
| Bromodichloromethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.13                   | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         |      |
| Bromoform                                                                                                                                                                                      | 80                          | 80                           |                        | 3.3                    | 4 U                     | 4 U                      | 4 U                     | 4 U                      | 4 U                      | 4 U                      | 4 U                        | 4 U                      | 4 U                      | 4 U                      | 4 U                        | 4 U                       | 4 U                      | 4 U                      | 4 U                        | 4 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 4 U                      | 4 U                         |      |
| Bromomethane                                                                                                                                                                                   | 10                          | 10                           |                        | 7.5                    | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         |      |
| Carbon Disulfide                                                                                                                                                                               | 1500                        | 6200                         |                        | 810                    | 5 U                     | 5 U                      | 5 U                     | 5 U                      | 5 U                      | 5 U                      | 5 U                        | 5 U                      | 5 U                      | 5 U                      | 5 U                        | 5 U                       | 5 U                      | 5 U                      | 5 U                        | 5 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 5 U                      | 5 U                         |      |
| Carbon Tetrachloride                                                                                                                                                                           | 5                           | 5                            | 5                      | 0.46                   | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         |      |
| Chlorobenzene                                                                                                                                                                                  | 100                         | 100                          | 100                    | 78                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         |      |
| Chlorodibromomethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.87                   | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         |      |
| Chloroethane                                                                                                                                                                                   | 21000                       | 88000                        |                        | 8300                   | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         |      |
| Chloroform                                                                                                                                                                                     | 80                          | 80                           |                        | 0.22                   | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 0.56 J                    | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         |      |
| Chloromethane                                                                                                                                                                                  | 30                          | 30                           |                        | 190                    | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 2 U                        | 2 U                      | 2 U                      | 2 U                      | 2 U                        | 2 U                       | 2 U                      | 2 U                      | 2 U                        | 2 U                       | 2 U                       | 1 U                     | 1 U                      | 1.0 U                      | 1 U                       | 1.0 U                    | 1 U                      | 1 U                         |      |
| cis-1,2-Dichloroethene                                                                                                                                                                         | 70                          | 70                           | 70                     | 25                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         |      |
| cis-1,3-Dichloropropene                                                                                                                                                                        | 6.5                         | 27                           |                        | 0.47                   | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         |      |
| Ethylbenzene                                                                                                                                                                                   | 700                         | 700                          | 700                    | 1.5                    | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         |      |
| Methyl tert-butyl ether                                                                                                                                                                        | 20                          | 20                           |                        | 14                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         |      |
| Methylene chloride                                                                                                                                                                             | 5                           | 5                            |                        | 11                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1.2                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         |      |
| Styrene                                                                                                                                                                                        | 100                         | 100                          | 100                    | 1200                   | 5 U                     | 5 U                      | 5 U                     | 5 U                      | 5 U                      | 5 U                      | 5 U                        | 5 U                      | 5 U                      | 5 U                      | 5 U                        | 5 U                       | 5 U                      | 5 U                      | 5 U                        | 5 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 5 U                      | 5 U                         |      |
| Tetrachloroethene                                                                                                                                                                              | 5                           | 5                            | 5                      | 11                     | 1.6                     | 1.5                      | 1.4                     | 1.2                      | 1.0                      | 1.0                      | 1.7                        | 2.3                      | 2.6                      | 2.4                      | 2.6                        | 2.5                       | 1.8                      | 1.7                      | 1.5                        | 1.9                       | 1.1                       | 0.67 J                  | 0.59 J                   | 1 U                        | 1.0 U                     | 1 U                      | 0.26 J                   | 0.27 J                      |      |
| Toluene                                                                                                                                                                                        | 1000                        | 1000                         | 1000                   | 1100                   | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         |      |
| trans-1,2-Dichloroethene                                                                                                                                                                       | 100                         | 100                          | 100                    | 68                     | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 2 U                        | 2 U                      | 2 U                      | 2 U                      | 2 U                        | 2 U                       | 2 U                      | 2 U                      | 2 U                        | 2 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 5 U                      | 1 U                         |      |
| trans-1,3-Dichloropropene                                                                                                                                                                      | 6.5                         | 27                           |                        | 0.47                   | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         |      |
| Trichloroethene                                                                                                                                                                                | 5                           | 5                            | 5                      | 0.49                   | 0.33 J                  | 1 U                      | 0.33 J                  | 1 U                      | 1 U                      | 1 U                      | 0.5 J                      | 0.71 J                   | 0.8 J                    | 0.65 J                   | 0.69 J                     | 0.62 J                    | 0.41 J                   | 0.33 J                   | 0.39 J                     | 0.37 J                    | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         |      |
| Vinyl Chloride                                                                                                                                                                                 | 2                           | 2                            | 2                      | 0.019                  | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                       | 1 U                     | 1.0 U                    | 1 U                        | 1.0 U                     | 1 U                      | 1 U                      | 1 U                         |      |
| Xylenes (Total)                                                                                                                                                                                | 10000                       | 10000                        | 10000                  | 190                    | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 2 U                       | 2 U                     | 2.0 U                    | 2 U                        | 2.0 U                     | 2 U                      | 6 U                      | 6 U                         |      |

Notes:  
µg/L - Micrograms per liter

U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".

J - Estimated. Detected concentration between the laboratory RL and the Method Detection Limit (MDL) shown as the approximate concentration reported by the laboratory followed by "J". These "J" concentrations were positively identified in the sample and are qualitatively acceptable.

PADEP MSC - Pennsylvania Department of Environmental Protection Statewide health standard  
Medium-Specific Concentration (November 2021)  
UA R - Used Aquifer Residential  
UA NR - Used Aquifer Non-Residential  
USEPA MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)  
USEPA RSL - United States Environmental Protection Agency Regional Screening Level for Residential Tap Water (TR = 1x10-6 and THQ=1.0) (November 2024)  
Color shaded cell denotes reported concentration greater than regulatory level  
(1) - Annual monitored natural attenuation (MNA) well sample  
(2) - Quarterly Technical Impracticability (TI) Area 1 sample  
(3) - Quarterly Southern Property Boundary Area (SPBA) extraction system performance monitoring sample  
(4) - Monthly SPBA extraction system performance monitoring  
(5) - Annual Northern Property Boundary Area (NPBA) plume assessment well sample

| TABLE 2.2-1<br>Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs) - Wells Outside Technical Impracticability (TI) Boundary<br>Former York Naval Ordnance Plant - York, PA |                             |                              |                        |                        |                           |                          |                          |                            |                           |                          |                         |                          |                         |                          |                          |                          |                            |                          |                          |                          |                            |                           |                          |                          |                            |                           |                                         |                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|------------------------|------------------------|---------------------------|--------------------------|--------------------------|----------------------------|---------------------------|--------------------------|-------------------------|--------------------------|-------------------------|--------------------------|--------------------------|--------------------------|----------------------------|--------------------------|--------------------------|--------------------------|----------------------------|---------------------------|--------------------------|--------------------------|----------------------------|---------------------------|-----------------------------------------|-----------------------------------------|
| Location/Identification<br>Depth (feet)<br>Sample Date                                                                                                                                         | PADEP<br>MSC UA R<br>(µg/L) | PADEP<br>MSC UA NR<br>(µg/L) | USEPA<br>MCL<br>(µg/L) | USEPA<br>RSL<br>(µg/L) | MW-168<br>12/23/20<br>(3) | MW-168<br>3/24/21<br>(3) | MW-168<br>6/24/21<br>(3) | MW-168<br>9/23/21<br>(1/3) | MW-168<br>12/22/21<br>(3) | MW-168<br>1/27/22<br>(4) | MW-168<br>2/8/22<br>(4) | MW-168<br>2/22/22<br>(4) | MW-168<br>3/8/22<br>(4) | MW-168<br>3/23/22<br>(4) | MW-168<br>4/26/22<br>(4) | MW-168<br>5/25/22<br>(4) | MW-168<br>9/27/22<br>(1/3) | MW-168<br>1/25/23<br>(3) | MW-168<br>3/22/23<br>(3) | MW-168<br>6/20/23<br>(3) | MW-168<br>9/28/23<br>(1/3) | MW-168<br>12/20/23<br>(3) | MW-168<br>3/20/24<br>(3) | MW-168<br>6/26/24<br>(3) | MW-168<br>9/26/24<br>(1/3) | MW-168<br>12/18/24<br>(3) | MW-148A<br>72.5 - 73<br>10/25/19<br>(1) | MW-148A<br>72.5 - 73<br>10/15/20<br>(1) |
| Volatile Organic Compound                                                                                                                                                                      |                             |                              |                        |                        |                           |                          |                          |                            |                           |                          |                         |                          |                         |                          |                          |                          |                            |                          |                          |                          |                            |                           |                          |                          |                            |                           |                                         |                                         |
| 1,1,1,2-Tetrachloroethane                                                                                                                                                                      | 70                          | 70                           |                        | 0.57                   | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                                     | 1 U                                     |
| 1,1,1-Trichloroethane                                                                                                                                                                          | 200                         | 200                          | 200                    | 8000                   | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                                     | 1 U                                     |
| 1,1,2,2-Tetrachloroethane                                                                                                                                                                      | 0.84                        | 4.3                          |                        | 0.076                  | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                                     | 1 U                                     |
| 1,1,2-Trichloroethane                                                                                                                                                                          | 5                           | 5                            | 5                      | 0.28                   | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                                     | 1 U                                     |
| 1,1-Dichloroethane                                                                                                                                                                             | 31                          | 160                          |                        | 2.8                    | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                                     | 1 U                                     |
| 1,1-Dichloroethene                                                                                                                                                                             | 7                           | 7                            | 7                      | 8.2                    | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                                     | 1 U                                     |
| 1,2-Dibromoethane                                                                                                                                                                              | 0.05                        | 0.05                         | 0.05                   | 0.0075                 | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                                     | 1 U                                     |
| 1,2-Dichloroethane                                                                                                                                                                             | 5                           | 5                            | 5                      | 0.17                   | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                                     | 1 U                                     |
| 1,2-Dichloropropane                                                                                                                                                                            | 5                           | 5                            | 5                      | 0.85                   | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                                     | 1 U                                     |
| 2-Butanone                                                                                                                                                                                     | 4000                        | 4000                         |                        | 5600                   | 10 U                      | 10 U                     | 10 U                     | 10 U                       | 10 U                      | 10 U                     | 10 U                    | 10 U                     | 10 U                    | 10 U                     | 10 U                     | 10 U                     | 10 U                       | 10 U                     | 10 U                     | 10 U                     | 10 U                       | 10 U                      | 10 U                     | 10 U                     | 10 U                       | 10 U                      | 10 U                                    | 10 U                                    |
| 2-Hexanone                                                                                                                                                                                     | 63                          | 260                          |                        | 38                     | 10 U                      | 10 U                     | 10 U                     | 10 U                       | 10 U                      | 10 U                     | 10 U                    | 10 U                     | 10 U                    | 10 U                     | 10 U                     | 10 U                     | 10 U                       | 10 U                     | 10 U                     | 10 U                     | 10 U                       | 10 U                      | 10 U                     | 10 U                     | 10 U                       | 10 U                      | 10 U                                    | 10 U                                    |
| 4-Methyl-2-Pentanone                                                                                                                                                                           | 2800                        | 7800                         |                        | 6300                   | 10 U                      | 10 U                     | 10 U                     | 10 U                       | 10 U                      | 10 U                     | 10 U                    | 10 U                     | 10 U                    | 10 U                     | 10 U                     | 10 U                     | 10 U                       | 10 U                     | 10 U                     | 10 U                     | 10 U                       | 10 U                      | 10 U                     | 10 U                     | 10 U                       | 10 U                      | 10 U                                    | 10 U                                    |
| Acetone                                                                                                                                                                                        | 31000                       | 88000                        |                        | 18000                  | 20 U                      | 20 U                     | 20 U                     | 20 U                       | 20 U                      | 20 U                     | 20 U                    | 20 U                     | 20 U                    | 20 U                     | 20 U                     | 20 U                     | 20 U                       | 20 U                     | 20 U                     | 20 U                     | 20 U                       | 20 U                      | 20 U                     | 20 U                     | 20 U                       | 20 U                      | 20 U                                    | 20 U                                    |
| Benzene                                                                                                                                                                                        | 5                           | 5                            | 5                      | 0.46                   | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                                     | 1 U                                     |
| Bromochloromethane                                                                                                                                                                             | 90                          | 90                           |                        | 83                     | 5 U                       | 5 U                      | 5 U                      | 5 U                        | 5 U                       | 5 U                      | 5 U                     | 5 U                      | 5 U                     | 5 U                      | 5 U                      | 5 U                      | 5 U                        | 5 U                      | 5 U                      | 5 U                      | 5 U                        | 5 U                       | 5 U                      | 5 U                      | 5 U                        | 5 U                       | 5 U                                     | 5 U                                     |
| Bromodichloromethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.13                   | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                                     | 1 U                                     |
| Bromoform                                                                                                                                                                                      | 80                          | 80                           |                        | 3.3                    | 4 U                       | 4 U                      | 4 U                      | 4 U                        | 4 U                       | 4 U                      | 4 U                     | 4 U                      | 4 U                     | 4 U                      | 4 U                      | 4 U                      | 4 U                        | 4 U                      | 4 U                      | 4 U                      | 4 U                        | 4 U                       | 4 U                      | 4 U                      | 4 U                        | 4 U                       | 4 U                                     | 4 U                                     |
| Bromomethane                                                                                                                                                                                   | 10                          | 10                           |                        | 7.5                    | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                                     | 1 U                                     |
| Carbon Disulfide                                                                                                                                                                               | 1500                        | 6200                         |                        | 810                    | 5 U                       | 5 U                      | 5 U                      | 5 U                        | 5 U                       | 5 U                      | 5 U                     | 5 U                      | 5 U                     | 5 U                      | 5 U                      | 5 U                      | 5 U                        | 5 U                      | 5 U                      | 5 U                      | 5 U                        | 5 U                       | 5 U                      | 5 U                      | 5 U                        | 5 U                       | 5 U                                     | 5 U                                     |
| Carbon Tetrachloride                                                                                                                                                                           | 5                           | 5                            | 5                      | 0.46                   | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                                     | 1 U                                     |
| Chlorobenzene                                                                                                                                                                                  | 100                         | 100                          | 100                    | 78                     | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                                     | 1 U                                     |
| Chlorodibromomethane                                                                                                                                                                           | 80                          | 80                           |                        | 0.87                   | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                                     | 1 U                                     |
| Chloroethane                                                                                                                                                                                   | 21000                       | 88000                        |                        | 8300                   | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                                     | 1 U                                     |
| Chloroform                                                                                                                                                                                     | 80                          | 80                           |                        | 0.22                   | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 0.32 J                    | 0.50 U                   | 1.0 U                    | 0.31 J                     | 1 U                       | 1.0 U                                   | 1 U                                     |
| Chloromethane                                                                                                                                                                                  | 30                          | 30                           |                        | 190                    | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 2 U                        | 2 U                      | 2 U                      | 2 U                      | 2 U                        | 2 U                       | 2 U                      | 2 U                      | 2 U                        | 2 U                       | 2 U                                     | 2 U                                     |
| cis-1,2-Dichloroethene                                                                                                                                                                         | 70                          | 70                           | 70                     | 25                     | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                                     | 1 U                                     |
| cis-1,3-Dichloropropene                                                                                                                                                                        | 6.5                         | 27                           |                        | 0.47                   | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                                     | 1 U                                     |
| Ethylbenzene                                                                                                                                                                                   | 700                         | 700                          | 700                    | 1.5                    | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                                     | 1 U                                     |
| Methyl tert-butyl ether                                                                                                                                                                        | 20                          | 20                           |                        | 14                     | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                                     | 1 U                                     |
| Methylene chloride                                                                                                                                                                             | 5                           | 5                            |                        | 11                     | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                                     | 1 U                                     |
| Styrene                                                                                                                                                                                        | 100                         | 100                          | 100                    | 1200                   | 5 U                       | 5 U                      | 5 U                      | 5 U                        | 5 U                       | 5 U                      | 5 U                     | 5 U                      | 5 U                     | 5 U                      | 5 U                      | 5 U                      | 5 U                        | 5 U                      | 5 U                      | 5 U                      | 5 U                        | 5 U                       | 5 U                      | 5 U                      | 5 U                        | 5 U                       | 5 U                                     | 5 U                                     |
| Tetrachloroethene                                                                                                                                                                              | 5                           | 5                            | 5                      | 11                     | 1 U                       | 0.25 J                   | 1 U                      | 0.35 J                     | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                                     | 1 U                                     |
| Toluene                                                                                                                                                                                        | 1000                        | 1000                         | 1000                   | 1100                   | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                                     | 1 U                                     |
| trans-1,2-Dichloroethene                                                                                                                                                                       | 100                         | 100                          | 100                    | 68                     | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 2 U                        | 2 U                      | 2 U                      | 2 U                      | 2 U                        | 2 U                       | 2 U                      | 2 U                      | 2 U                        | 2 U                       | 2 U                                     | 2 U                                     |
| trans-1,3-Dichloropropene                                                                                                                                                                      | 6.5                         | 27                           |                        | 0.47                   | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                                     | 1 U                                     |
| Trichloroethene                                                                                                                                                                                | 5                           | 5                            | 5                      | 0.49                   | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                                     | 1 U                                     |
| Vinyl Chloride                                                                                                                                                                                 | 2                           | 2                            | 2                      | 0.019                  | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                                     | 1 U                                     |
| Xylenes (Total)                                                                                                                                                                                | 10000                       | 10000                        | 10000                  | 190                    | 6 U                       | 6 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                     | 1 U                      | 1 U                     | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                      | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 1 U                      | 1 U                      | 1 U                        | 1 U                       | 2.0 U                                   | 6 U                                     |

Notes:  
µg/L - Micrograms per liter

U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".

J - Estimated. Detected concentration between the laboratory RL and the Method Detection Limit (MDL) shown as the approximate concentration reported by the laboratory followed by "J". These "J" concentrations were positively identified in the sample and are qualitatively acceptable.

PADEP MSC - Pennsylvania Department of Environmental Protection Statewide health standard  
Medium-Specific Concentration (November 2021)  
UA R - Used Aquifer Residential  
UA NR - Used Aquifer Non-Residential  
USEPA MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)  
USEPA RSL - United States Environmental Protection Agency Regional Screening Level for Residential Tap Water (TR = 1x10-6 and THQ=1.0) (November 2024)  
Color shaded cell denotes reported concentration greater than regulatory level  
(1) - Annual monitored natural attenuation (MNA) well sample  
(2) - Quarterly Technical Impracticability (TI) Area 1 sample  
(3) - Quarterly Southern Property Boundary Area (SPBA) extraction system performance monitoring sample  
(4) - Monthly SPBA extraction system performance monitoring  
(5) - Annual Northern Property Boundary Area (NPBA) plume assessment well sample

TABLE 2.2-1  
Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs) - Wells Outside Technical Impracticability (TI) Boundary  
Former York Naval Ordnance Plant - York, PA

| Location/Identification<br>Depth (feet)<br>Sample Date | PADEP<br>MSC UA R<br>(µg/L) | PADEP<br>MSC UA NR<br>(µg/L) | USEPA<br>MCL<br>(µg/L) | USEPA<br>RSL<br>(µg/L) | MW-148A<br>72.5 - 73<br>10/12/21<br>(1) | MW-148A<br>72.5 - 73<br>10/11/22<br>(1) | MW-148A<br>72.5 - 73<br>10/11/23<br>(1) | MW-148A<br>72.5 - 73<br>10/7/24<br>(1) | MW-148A<br>136 - 136.5<br>10/25/19<br>(1) | MW-148A<br>136 - 136.5<br>10/15/20<br>(1) | MW-148A<br>136 - 136.5<br>10/12/21<br>(1) | MW-148A<br>136 - 136.5<br>10/11/22<br>(1) | MW-148A<br>136 - 136.5<br>10/11/23<br>(1) | MW-148A<br>136 - 136.5<br>10/7/24<br>(1) |
|--------------------------------------------------------|-----------------------------|------------------------------|------------------------|------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|----------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|------------------------------------------|
| Volatile Organic Compound                              |                             |                              |                        |                        |                                         |                                         |                                         |                                        |                                           |                                           |                                           |                                           |                                           |                                          |
| 1,1,1,2-Tetrachloroethane                              | 70                          | 70                           |                        | 0.57                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                    | 1.0 U                                     | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                      |
| 1,1,1-Trichloroethane                                  | 200                         | 200                          | 200                    | 8000                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                    | 1.0 U                                     | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                      |
| 1,1,2,2-Tetrachloroethane                              | 0.84                        | 4.3                          |                        | 0.076                  | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                    | 1.0 U                                     | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                      |
| 1,1,2-Trichloroethane                                  | 5                           | 5                            | 5                      | 0.28                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                    | 1.0 U                                     | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                      |
| 1,1-Dichloroethane                                     | 31                          | 160                          |                        | 2.8                    | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                    | 1.0 U                                     | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                      |
| 1,1-Dichloroethene                                     | 7                           | 7                            | 7                      | 8.2                    | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                    | 1.0 U                                     | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                      |
| 1,2-Dibromoethane                                      | 0.05                        | 0.05                         | 0.05                   | 0.0075                 | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                    | 1.0 U                                     | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                      |
| 1,2-Dichloroethane                                     | 5                           | 5                            | 5                      | 0.17                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                    | 1.0 U                                     | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                      |
| 1,2-Dichloropropane                                    | 5                           | 5                            | 5                      | 0.85                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                    | 1.0 U                                     | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                      |
| 2-Butanone                                             | 4000                        | 4000                         |                        | 5600                   | 10 U                                    | 10 U                                    | 10 U                                    | 10 U                                   | 5.0 U                                     | 10 U                                      | 10 U                                      | 10 U                                      | 10 U                                      | 10 U                                     |
| 2-Hexanone                                             | 63                          | 260                          |                        | 38                     | 10 U                                    | 10 U                                    | 10 U                                    | 10 U                                   | 5.0 U                                     | 10 U                                      | 10 U                                      | 10 U                                      | 10 U                                      | 10 U                                     |
| 4-Methyl-2-Pentanone                                   | 2800                        | 7800                         |                        | 6300                   | 10 U                                    | 10 U                                    | 10 U                                    | 10 U                                   | 5.0 U                                     | 10 U                                      | 10 U                                      | 10 U                                      | 10 U                                      | 10 U                                     |
| Acetone                                                | 31000                       | 88000                        |                        | 18000                  | 20 U                                    | 20 U                                    | 20 U                                    | 20 U                                   | 5.0 U                                     | 20 U                                      | 20 U                                      | 20 U                                      | 20 U                                      | 20 U                                     |
| Benzene                                                | 5                           | 5                            | 5                      | 0.46                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                    | 1.0 U                                     | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                      |
| Bromochloromethane                                     | 90                          | 90                           |                        | 83                     | 5 U                                     | 5 U                                     | 5 U                                     | 5 U                                    | 1.0 U                                     | 5 U                                       | 5 U                                       | 5 U                                       | 5 U                                       | 5 U                                      |
| Bromodichloromethane                                   | 80                          | 80                           |                        | 0.13                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                    | 1.0 U                                     | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                      |
| Bromoform                                              | 80                          | 80                           |                        | 3.3                    | 4 U                                     | 4 U                                     | 4 U                                     | 4 U                                    | 1.0 U                                     | 4 U                                       | 4 U                                       | 4 U                                       | 4 U                                       | 4 U                                      |
| Bromomethane                                           | 10                          | 10                           |                        | 7.5                    | 1 U                                     | 1 U                                     | 1 U                                     | 1 UJ                                   | 1.0 U                                     | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 UJ                                     |
| Carbon Disulfide                                       | 1500                        | 6200                         |                        | 810                    | 5 U                                     | 5 U                                     | 5 U                                     | 5 U                                    | 1.0 U                                     | 5 U                                       | 5 U                                       | 5 U                                       | 5 U                                       | 5 U                                      |
| Carbon Tetrachloride                                   | 5                           | 5                            | 5                      | 0.46                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                    | 1.0 U                                     | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                      |
| Chlorobenzene                                          | 100                         | 100                          | 100                    | 78                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                    | 1.0 U                                     | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                      |
| Chlorodibromomethane                                   | 80                          | 80                           |                        | 0.87                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                    | 1.0 U                                     | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                      |
| Chloroethane                                           | 21000                       | 88000                        |                        | 8300                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 UJ                                   | 1.0 U                                     | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 UJ                                     |
| Chloroform                                             | 80                          | 80                           |                        | 0.22                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                    | 1.0 U                                     | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                      |
| Chloromethane                                          | 30                          | 30                           |                        | 190                    | 1 U                                     | 2 U                                     | 2 U                                     | 2 U                                    | 1.0 U                                     | 1 U                                       | 1 U                                       | 2 U                                       | 2 U                                       | 2 U                                      |
| cis-1,2-Dichloroethene                                 | 70                          | 70                           | 70                     | 25                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                    | 1.0 U                                     | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                      |
| cis-1,3-Dichloropropene                                | 6.5                         | 27                           |                        | 0.47                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 UJ                                   | 1.0 U                                     | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 UJ                                     |
| Ethylbenzene                                           | 700                         | 700                          | 700                    | 1.5                    | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                    | 1.0 U                                     | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                      |
| Methyl tert-butyl ether                                | 20                          | 20                           |                        | 14                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                    | 1.0 U                                     | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                      |
| Methylene chloride                                     | 5                           | 5                            |                        | 11                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                    | 1.0 U                                     | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                      |
| Styrene                                                | 100                         | 100                          | 100                    | 1200                   | 5 U                                     | 5 U                                     | 5 U                                     | 5 U                                    | 1.0 U                                     | 5 U                                       | 5 U                                       | 5 U                                       | 5 U                                       | 5 U                                      |
| Tetrachloroethene                                      | 5                           | 5                            | 5                      | 11                     | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                    | 1.0 U                                     | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                      |
| Toluene                                                | 1000                        | 1000                         | 1000                   | 1100                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                    | 1.0 U                                     | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                      |
| trans-1,2-Dichloroethene                               | 100                         | 100                          | 100                    | 68                     | 1 U                                     | 2 U                                     | 2 U                                     | 2 U                                    | 1.0 U                                     | 1 U                                       | 1 U                                       | 2 U                                       | 2 U                                       | 2 U                                      |
| trans-1,3-Dichloropropene                              | 6.5                         | 27                           |                        | 0.47                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                    | 1.0 U                                     | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                      |
| Trichloroethene                                        | 5                           | 5                            | 5                      | 0.49                   | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                    | 1.0 U                                     | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                      |
| Vinyl Chloride                                         | 2                           | 2                            | 2                      | 0.019                  | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                    | 1.0 U                                     | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                      |
| Xylenes (Total)                                        | 10000                       | 10000                        | 10000                  | 190                    | 1 U                                     | 1 U                                     | 1 U                                     | 1 U                                    | 2.0 U                                     | 6 U                                       | 1 U                                       | 1 U                                       | 1 U                                       | 1 U                                      |

Notes:  
µg/L - Micrograms per liter

U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".

J - Estimated. Detected concentration between the laboratory RL and the Method Detection Limit (MDL) shown as the approximate concentration reported by the laboratory followed by "J". These "J" concentrations were positively identified in the sample and are qualitatively acceptable.

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Color shaded cell denotes reported concentration greater than regulatory level  
(1) - Annual monitored natural attenuation (MNA) well sample  
(2) - Quarterly Technical Impracticability (TI) Area 1 sample  
(3) - Quarterly Southern Property Boundary Area (SPBA) extraction system performance monitoring sample  
(4) - Monthly SPBA extraction system performance monitoring  
(5) - Annual Northern Property Boundary Area (NPBA) plume assessment well sample

Table 2.2-2  
Groundwater Analytical Data Summary - Volatile Organic Compounds (VOCs) - Wells Inside Technical Impracticability (TI) Boundary - 2024  
Former York Naval Ordnance Plant - York, PA

| Location/Identification<br>Depth (feet)<br>Sample Date | CW-21<br>3/20/24<br>(1) | CW-21<br>6/26/24<br>(1) | CW-21<br>9/26/24<br>(1) | CW-21<br>12/18/24<br>(1) | CW-22<br>3/20/24<br>(1) | CW-22<br>6/26/24<br>(1) | CW-22<br>9/26/24<br>(1) | CW-22<br>12/18/24<br>(1) | CW-23<br>3/20/24<br>(1) | CW-23<br>6/26/24<br>(1) | CW-23<br>9/26/24<br>(1) | CW-23<br>12/18/24<br>(1) | SPBA Effluent<br>3/20/24<br>(2) | SPBA Effluent<br>6/26/24<br>(2) | SPBA Effluent<br>9/26/24<br>(2) | SPBA Effluent<br>12/18/24<br>(2) |
|--------------------------------------------------------|-------------------------|-------------------------|-------------------------|--------------------------|-------------------------|-------------------------|-------------------------|--------------------------|-------------------------|-------------------------|-------------------------|--------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Parameter                                              |                         |                         |                         |                          |                         |                         |                         |                          |                         |                         |                         |                          |                                 |                                 |                                 |                                  |
| Volatile Organic Compound                              |                         |                         |                         |                          |                         |                         |                         |                          |                         |                         |                         |                          |                                 |                                 |                                 |                                  |
| 1,1,1,2-Tetrachloroethane                              | 1 U                     | 1 U                     | 1 U                     | 1 UJ                     | 1 U                     | 1 U                     | 1 U                     | 1 UJ                     | 1 U                     | 1 U                     | 1 U                     | 1 UJ                     | 1 U                             | 1 U                             | 1 U                             | 1 U                              |
| 1,1,1-Trichloroethane                                  | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                             | 1 U                             | 1 U                             | 1 U                              |
| 1,1,2,2-Tetrachloroethane                              | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                             | 1 U                             | 1 U                             | 1 U                              |
| 1,1,2-Trichloroethane                                  | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                             | 1 U                             | 1 U                             | 1 U                              |
| 1,1-Dichloroethane                                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                             | 1 U                             | 1 U                             | 1 U                              |
| 1,1-Dichloroethene                                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                             | 1 U                             | 1 U                             | 1 U                              |
| 1,2-Dibromoethane                                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                             | 1 U                             | 1 U                             | 1 U                              |
| 1,2-Dichloroethane                                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                             | 1 U                             | 1 U                             | 1 U                              |
| 1,2-Dichloropropane                                    | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                             | 1 U                             | 1 U                             | 1 U                              |
| 2-Butanone                                             | 10 U                    | 10 U                    | 10 U                    | 10 U                     | 10 U                    | 10 U                    | 10 U                    | 10 U                     | 10 U                    | 10 U                    | 10 U                    | 10 U                     | 10 U                            | 10 U                            | 10 U                            | 10 U                             |
| 2-Hexanone                                             | 10 U                    | 10 U                    | 10 U                    | 10 U                     | 10 U                    | 10 U                    | 10 U                    | 10 U                     | 10 U                    | 10 U                    | 10 U                    | 10 U                     | 10 U                            | 10 U                            | 10 U                            | 10 U                             |
| 4-Methyl-2-Pentanone                                   | 10 U                    | 10 U                    | 10 U                    | 10 U                     | 10 U                    | 10 U                    | 10 U                    | 10 U                     | 10 U                    | 10 U                    | 10 U                    | 10 U                     | 10 U                            | 10 U                            | 10 U                            | 10 U                             |
| Acetone                                                | 20 U                    | 20 U                    | 20 U                    | 20 U                     | 20 U                    | 20 U                    | 20 U                    | 20 U                     | 20 U                    | 20 U                    | 20 U                    | 20 U                     | 20 U                            | 20 U                            | 20 U                            | 20 U                             |
| Benzene                                                | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                             | 1 U                             | 1 U                             | 1 U                              |
| Bromochloromethane                                     | 5 U                     | 5 U                     | 5 U                     | 5 U                      | 5 U                     | 5 U                     | 5 U                     | 5 U                      | 5 U                     | 5 U                     | 5 U                     | 5 U                      | 5 U                             | 5 U                             | 5 U                             | 5 U                              |
| Bromodichloromethane                                   | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                             | 1 U                             | 1 U                             | 1 U                              |
| Bromoform                                              | 4 U                     | 4 U                     | 4 U                     | 4 UJ                     | 4 U                     | 4 U                     | 4 U                     | 4 UJ                     | 4 U                     | 4 U                     | 4 U                     | 4 UJ                     | 4 U                             | 4 U                             | 4 U                             | 4 UJ                             |
| Bromomethane                                           | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                             | 1 U                             | 1 U                             | 1 U                              |
| Carbon Disulfide                                       | 5 U                     | 5 U                     | 5 UJ                    | 5 U                      | 5 U                     | 5 U                     | 5 UJ                    | 5 U                      | 5 U                     | 5 U                     | 5 UJ                    | 5 U                      | 5 U                             | 5 U                             | 5 UJ                            | 5 U                              |
| Carbon Tetrachloride                                   | 1 U                     | 1 U                     | 1 U                     | 1 UJ                     | 1 U                     | 1 U                     | 1 U                     | 1 UJ                     | 1 U                     | 1 U                     | 1 U                     | 1 UJ                     | 1 U                             | 1 U                             | 1 U                             | 1 UJ                             |
| Chlorobenzene                                          | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                             | 1 U                             | 1 U                             | 1 U                              |
| Chlorodibromomethane                                   | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                             | 1 U                             | 1 U                             | 1 U                              |
| Chloroethane                                           | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                             | 1 U                             | 1 U                             | 1 U                              |
| Chloroform                                             | 0.53 J                  | 1 U                     | 0.52 J                  | 0.49 J                   | 0.62 J                  | 1 U                     | 0.64 J                  | 0.62 J                   | 0.44 J                  | 1 U                     | 0.47 J                  | 0.46 J                   | 0.52 J                          | 1 U                             | 0.55 J                          | 0.50 J                           |
| Chloromethane                                          | 2 U                     | 2 UJ                    | 2 UJ                    | 2 U                      | 2 U                     | 2 UJ                    | 2 UJ                    | 2 U                      | 2 U                     | 2 UJ                    | 2 UJ                    | 2 U                      | 2 U                             | 2 UJ                            | 2 UJ                            | 2 U                              |
| cis-1,2-Dichloroethene                                 | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                             | 1 U                             | 1 U                             | 1 U                              |
| cis-1,3-Dichloropropene                                | 1 U                     | 1 U                     | 1 UJ                    | 1 U                      | 1 U                     | 1 U                     | 1 UJ                    | 1 U                      | 1 U                     | 1 U                     | 1 UJ                    | 1 U                      | 1 U                             | 1 U                             | 1 U                             | 1 U                              |
| Ethylbenzene                                           | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                             | 1 U                             | 1 U                             | 1 U                              |
| Methyl tert-butyl ether                                | 1 U                     | 1 U                     | 1 UJ                    | 1 U                      | 1 U                     | 1 U                     | 1 UJ                    | 1 U                      | 1 U                     | 1 U                     | 1 UJ                    | 1 U                      | 1 U                             | 1 U                             | 1 U                             | 1 U                              |
| Methylene chloride                                     | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                             | 1 U                             | 1 U                             | 1 U                              |
| Styrene                                                | 5 U                     | 5 U                     | 5 U                     | 5 U                      | 5 U                     | 5 U                     | 5 U                     | 5 U                      | 5 U                     | 5 U                     | 5 U                     | 5 U                      | 5 U                             | 5 U                             | 5 U                             | 5 U                              |
| Tetrachloroethene                                      | 110                     | 120                     | 110                     | 96                       | 51                      | 56                      | 49                      | 46                       | 30                      | 34                      | 32                      | 40                       | 83                              | 95                              | 83                              | 78                               |
| Toluene                                                | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                             | 1 U                             | 1 U                             | 1 U                              |
| trans-1,2-Dichloroethene                               | 2 U                     | 2 U                     | 2 U                     | 2 U                      | 2 U                     | 2 U                     | 2 U                     | 2 U                      | 2 U                     | 2 U                     | 2 U                     | 2 U                      | 2 U                             | 2 U                             | 2 U                             | 2 U                              |
| trans-1,3-Dichloropropene                              | 1 U                     | 1 U                     | 1 UJ                    | 1 U                      | 1 U                     | 1 U                     | 1 UJ                    | 1 U                      | 1 U                     | 1 U                     | 1 UJ                    | 1 U                      | 1 U                             | 1 U                             | 1 U                             | 1 U                              |
| Trichloroethene                                        | 0.68 J                  | 0.73 J                  | 0.60 J                  | 0.59 J                   | 1                       | 1                       | 0.85 J                  | 0.86 J                   | 0.42 J                  | 0.43 J                  | 0.49 J                  | 0.72 J                   | 0.81 J                          | 0.76 J                          | 0.72 J                          | 0.59 J                           |
| Vinyl Chloride                                         | 1 U                     | 1 UJ                    | 1 UJ                    | 1 U                      | 1 U                     | 1 UJ                    | 1 UJ                    | 1 U                      | 1 U                     | 1 UJ                    | 1 UJ                    | 1 U                      | 1 U                             | 1 UJ                            | 1 UJ                            | 1 U                              |
| Xylenes (Total)                                        | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                     | 1 U                     | 1 U                     | 1 U                      | 1 U                             | 1 U                             | 1 U                             | 1 U                              |

Notes:

All samples are representative of the Southern Property Boundary Area (SPBA)

Results are reported in micrograms per liter (µg/L)

U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".

J - Estimated. Detected concentration between the laboratory RL and the Method Detection Limit (MDL) shown as the approximate concentration reported by the laboratory followed by "J".

These "J" concentrations were positively identified in the sample and are qualitatively acceptable.

[1] - Quarterly SPBA extraction system performance monitoring sample

[2] - Monthly combined extraction system flow sample from CW-21, CW-22, and CW-23 prior to treatment



**TABLE 2.2-3**  
**Groundwater Analytical Data Summary - Total and Available Cyanide (MW-2) - 2024**  
**Former York Naval Ordnance Plant - York, PA**

| Location/Identification<br>Sample Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PADEP MSC<br>UA R<br>(µg/L) | PADEP MSC<br>UA NR<br>(µg/L) | USEPA<br>MCL<br>(µg/L) | USEPA<br>RSL<br>(µg/L) | MW-2<br>10/1/24 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------|------------------------|------------------------|-----------------|
| <b>Parameter</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                             |                              |                        |                        |                 |
| <b>Cyanide</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                             |                              |                        |                        |                 |
| Cyanide, Free (Available)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 200                         | 200                          | 200                    | 1.5                    | 5.2             |
| Cyanide, Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                             |                              |                        |                        | 62              |
| Notes:<br>µg/L - Micrograms per liter<br>PADEP MSC - Pennsylvania Department of Environmental Protection Statewide health standard Medium-Specific Concentration (November 2021)<br>UA R - Used Aquifer Residential<br>UA NR - Used Aquifer Non-Residential<br>USEPA MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)<br>USEPA RSL - United States Environmental Protection Agency Tap Water Regional Screening Level (TR = 1x10 <sup>-6</sup> and THQ=1.0) (November 2024)<br>Color shaded cell denotes reported concentration greater than regulatory level |                             |                              |                        |                        |                 |

**TABLE 2.2-4**  
**Monitoring Information for Post-Remediation Care Activities in 2024**  
**Former York Naval Ordnance Plant - York, PA**

| Well Identification | Type            | Status   | Depth to Top of Open Interval (feet bgs) | Depth to Base of Open Interval (feet bgs) | Open Interval Length (feet) | Open Interval in Overburden or Bedrock | Rock Type | Site Location             |
|---------------------|-----------------|----------|------------------------------------------|-------------------------------------------|-----------------------------|----------------------------------------|-----------|---------------------------|
| CW-1                | Collection Well | Inactive | 68.0                                     | 175.0                                     | 107.0                       | Bedrock                                | SS/Phyl   | NPBA                      |
| CW-1A               | Collection Well | Inactive | 29.0                                     | 74.0                                      | 45.0                        | Bedrock                                | Phyl      | NPBA                      |
| CW-2                | Collection Well | Inactive | 48.0                                     | 150.0                                     | 102.0                       | Bedrock                                | SS/Phyl   | NPBA                      |
| CW-3                | Collection Well | Inactive | 20.0                                     | 203.0                                     | 183.0                       | Bedrock                                | SS/Phyl   | NPBA                      |
| CW-4                | Collection Well | Inactive | 63.0                                     | 150.0                                     | 87.0                        | Bedrock                                | Phyl      | NPBA                      |
| CW-5                | Collection Well | Inactive | 18.5                                     | 83.0                                      | 64.5                        | Bedrock                                | SS/Phyl   | NPBA                      |
| CW-6                | Collection Well | Inactive | 30.0                                     | 145.0                                     | 115.0                       | Bedrock                                | Phyl      | NPBA                      |
| CW-7                | Collection Well | Inactive | 61.0                                     | 150.0                                     | 89.0                        | Bedrock                                | Phyl      | NPBA                      |
| CW-7A               | Collection Well | Inactive | 34.0                                     | 66.0                                      | 32.0                        | Overburden and Bedrock                 | Phyl      | NPBA                      |
| CW-9                | Collection Well | Inactive | 47.0                                     | 50.0                                      | 3.0                         | Bedrock                                | LS        | SW-WPL                    |
| CW-13               | Collection Well | Inactive | 59.6                                     | 70.0                                      | 10.4                        | Bedrock                                | LS        | WPL                       |
| CW-14               | Collection Well | Inactive | 36.0                                     | 80.0                                      | 44.0                        | Bedrock                                | LS        | NW-WPL                    |
| CW-15               | Collection Well | Inactive | 55.0                                     | 270.0                                     | 215.0                       | Overburden and Bedrock                 | LS        | WPL                       |
| CW-15A              | Collection Well | Inactive | 18.0                                     | 68.0                                      | 50.0                        | Overburden and Bedrock                 | LS        | WPL                       |
| CW-16               | Collection Well | Inactive | 25.0                                     | 52.0                                      | 27.0                        | Bedrock                                | LS        | Former Central Plant Area |
| CW-17               | Collection Well | Inactive | 32.0                                     | 65.0                                      | 33.0                        | Bedrock                                | LS        | NW-WPL                    |
| CW-20               | Collection Well | Inactive | 205.0                                    | 215.0                                     | 10.0                        | Bedrock                                | LS        | WPL                       |
| CW-21               | Collection Well | Active   | 49.5                                     | 100.0                                     | 50.5                        | Bedrock                                | LS        | SPBA                      |
| CW-22               | Collection Well | Active   | 64.0                                     | 100.0                                     | 36.0                        | Bedrock                                | LS        | SPBA                      |
| CW-23               | Collection Well | Active   | 34.0                                     | 61.0                                      | 27.0                        | Bedrock                                | LS        | WPL                       |
| MPE-1               | Monitoring Well | Active   | 32.0                                     | 50.0                                      | 18.0                        | Overburden                             | LS        | SPBA                      |
| MPE-2               | Monitoring Well | Active   | 35.0                                     | 66.0                                      | 31.0                        | Overburden                             | LS        | SPBA                      |
| MPE-3               | Monitoring Well | Active   | 27.0                                     | 43.0                                      | 16.0                        | Overburden                             | LS        | SPBA                      |
| MW-1                | Monitoring Well | Active   | 39.0                                     | 54.0                                      | 15.0                        | Bedrock                                | LS        | SPA                       |
| MW-2                | Monitoring Well | Active   | 46.0                                     | 121.0                                     | 75.0                        | Bedrock                                | SS        | Eastern Site Perimeter    |
| MW-3                | Monitoring Well | Active   | 50.0                                     | 102.0                                     | 52.0                        | Bedrock                                | SS/Q      | NPBA                      |
| MW-5                | Monitoring Well | Active   | 10.0                                     | 53.0                                      | 43.0                        | Overburden and Bedrock                 | LS        | Northern Site Perimeter   |
| MW-6                | Monitoring Well | Active   | 7.0                                      | 40.0                                      | 33.0                        | Overburden and Bedrock                 | LS        | Northern Site Perimeter   |
| MW-7                | Monitoring Well | Active   | 13.0                                     | 35.0                                      | 22.0                        | Overburden and Bedrock                 | LS & SS   | WPL                       |
| MW-8                | Monitoring Well | Active   | 10.0                                     | 36.0                                      | 26.0                        | Overburden and Bedrock                 | LS & SS   | WPL                       |
| MW-9                | Monitoring Well | Active   | 59.0                                     | 97.0                                      | 38.0                        | Bedrock                                | SS/Phyl   | NPBA                      |
| MW-10               | Monitoring Well | Active   | 78.0                                     | 120.0                                     | 42.0                        | Bedrock                                | SS/Phyl   | NPBA                      |
| MW-11               | Monitoring Well | Active   | 20.0                                     | 74.0                                      | 54.0                        | Overburden and Bedrock                 | SS        | NPBA                      |
| MW-12               | Monitoring Well | Active   | 30.0                                     | 100.0                                     | 70.0                        | Bedrock                                | SS/Q      | NPBA                      |
| MW-14               | Monitoring Well | Active   | 18.0                                     | 80.0                                      | 62.0                        | Bedrock                                | SS/Q      | Eastern Site Perimeter    |
| MW-15               | Monitoring Well | Active   | 40.0                                     | 120.0                                     | 80.0                        | Bedrock                                | SS/Q      | EPBA                      |
| MW-16D              | Monitoring Well | Active   | 190.0                                    | 201.0                                     | 11.0                        | Bedrock                                | SS/Q/Phyl | NPBA                      |
| MW-16S              | Monitoring Well | Active   | 98.0                                     | 110.0                                     | 12.0                        | Bedrock                                | SS/Q/Phyl | NPBA                      |
| MW-17               | Monitoring Well | Active   | 15.0                                     | 79.0                                      | 64.0                        | Overburden and Bedrock                 | SS        | EPBA                      |
| MW-18D              | Monitoring Well | Active   | 130.0                                    | 140.0                                     | 10.0                        | Bedrock                                | SS/Q/Phyl | NPBA                      |
| MW-18S              | Monitoring Well | Active   | 45.0                                     | 65.0                                      | 20.0                        | Bedrock                                | SS/Q/Phyl | NPBA                      |
| MW-19               | Monitoring Well | Active   | 30.0                                     | 120.0                                     | 90.0                        | Bedrock                                | SS/Q      | Former NETT               |
| MW-20D              | Monitoring Well | Active   | 153.0                                    | 165.0                                     | 12.0                        | Bedrock                                | SS/Q      | NPBA                      |
| MW-20M              | Monitoring Well | Active   | 72.0                                     | 85.0                                      | 13.0                        | Bedrock                                | SS/Q      | NPBA                      |
| MW-20S              | Monitoring Well | Active   | 28.0                                     | 61.0                                      | 33.0                        | Bedrock                                | SS/Q      | NPBA                      |
| MW-22               | Monitoring Well | Active   | 30.0                                     | 100.0                                     | 70.0                        | Bedrock                                | SS/Q      | SPBA                      |
| MW-26               | Monitoring Well | Active   | 7.0                                      | 60.0                                      | 53.0                        | Overburden                             | NA        | Former NETT               |
| MW-28               | Monitoring Well | Active   | 8.0                                      | 55.0                                      | 47.0                        | Overburden and Bedrock                 | LS        | Former TCA Tank Area      |
| MW-30               | Monitoring Well | Active   | 14.0                                     | 23.0                                      | 9.0                         | Overburden and Bedrock                 | LS        | West Building 41          |
| MW-31D              | Monitoring Well | Active   | 66.0                                     | 81.0                                      | 15.0                        | Bedrock                                | LS        | North Building 41         |
| MW-31S              | Monitoring Well | Active   | 12.0                                     | 36.0                                      | 24.0                        | Overburden                             | NA        | North Building 41         |
| MW-32D              | Monitoring Well | Active   | 196.0                                    | 220.0                                     | 24.0                        | Bedrock                                | LS        | Former TCA Tank Area      |
| MW-32S              | Monitoring Well | Active   | 133.0                                    | 148.0                                     | 15.0                        | Bedrock                                | LS        | Former TCA Tank Area      |
| MW-36D              | Monitoring Well | Active   | 67.0                                     | 83.0                                      | 16.0                        | Bedrock                                | LS        | West Building 41          |



**TABLE 2.2-4**  
**Monitoring Information for Post-Remediation Care Activities in 2024**  
**Former York Naval Ordnance Plant - York, PA**

| Well Identification | Type            | Status | Depth to Top of Open Interval (feet bgs) | Depth to Base of Open Interval (feet bgs) | Open Interval Length (feet) | Open Interval in Overburden or Bedrock | Rock Type | Site Location              |
|---------------------|-----------------|--------|------------------------------------------|-------------------------------------------|-----------------------------|----------------------------------------|-----------|----------------------------|
| MW-36S              | Monitoring Well | Active | 18.0                                     | 41.0                                      | 23.0                        | Overburden and Bedrock                 | LS        | West Building 41           |
| MW-37D              | Monitoring Well | Active | 125.0                                    | 141.0                                     | 16.0                        | Bedrock                                | LS        | SW-WPL                     |
| MW-37S              | Monitoring Well | Active | 11.0                                     | 33.0                                      | 22.0                        | Overburden and Bedrock                 | LS        | SW-WPL                     |
| MW-38D              | Monitoring Well | Active | 80.0                                     | 103.0                                     | 23.0                        | Bedrock                                | LS        | WPL                        |
| MW-39D              | Monitoring Well | Active | 53.0                                     | 100.0                                     | 47.0                        | Bedrock                                | LS        | NW-WPL                     |
| MW-39S              | Monitoring Well | Active | 3.0                                      | 30.0                                      | 27.0                        | Overburden and Bedrock                 | LS        | NW-WPL                     |
| MW-40S              | Monitoring Well | Active | 26.0                                     | 47.0                                      | 21.0                        | Bedrock                                | LS        | SPA                        |
| MW-40D              | Monitoring Well | Active | 78.0                                     | 103.0                                     | 25.0                        | Bedrock                                | LS        | SPA                        |
| MW-43D              | Monitoring Well | Active | 79.0                                     | 92.0                                      | 13.0                        | Bedrock                                | LS        | SPA                        |
| MW-43S              | Monitoring Well | Active | 19.0                                     | 48.0                                      | 29.0                        | Overburden and Bedrock                 | SS        | SPA                        |
| MW-45               | Monitoring Well | Active | 6.0                                      | 38.0                                      | 32.0                        | Overburden and Bedrock                 | LS        | Former West Building 4     |
| MW-46               | Monitoring Well | Active | 6.0                                      | 39.0                                      | 33.0                        | Overburden and Bedrock                 | LS        | Former West Building 4     |
| MW-47               | Monitoring Well | Active | 12.0                                     | 56.0                                      | 44.0                        | Overburden                             | NA        | Former West Building 4     |
| MW-49D              | Monitoring Well | Active | 201.0                                    | 220.0                                     | 19.0                        | Bedrock                                | LS        | Former North Building 4    |
| MW-49S              | Monitoring Well | Active | 134.0                                    | 158.0                                     | 24.0                        | Bedrock                                | LS        | Former North Building 4    |
| MW-50D              | Monitoring Well | Active | 157.0                                    | 170.0                                     | 13.0                        | Bedrock                                | LS        | Former North Building 4    |
| MW-50S              | Monitoring Well | Active | 104.0                                    | 125.0                                     | 21.0                        | Bedrock                                | LS        | Former North Building 4    |
| MW-51D              | Monitoring Well | Active | 88.0                                     | 120.0                                     | 32.0                        | Bedrock                                | LS        | Former North Building 4    |
| MW-51S              | Monitoring Well | Active | 34.0                                     | 51.0                                      | 17.0                        | Bedrock                                | LS        | Former North Building 4    |
| MW-56               | Monitoring Well | Active | 20.0                                     | 37.0                                      | 17.0                        | Overburden                             | NA        | East of Former Building 46 |
| MW-57               | Monitoring Well | Active | 25.0                                     | 35.0                                      | 10.0                        | Overburden                             | NA        | Former Building 58         |
| MW-64D              | Monitoring Well | Active | 68.0                                     | 77.0                                      | 9.0                         | Bedrock                                | LS        | SPBA                       |
| MW-64S              | Monitoring Well | Active | 33.0                                     | 42.0                                      | 9.0                         | Overburden                             | NA        | SPBA                       |
| MW-65D              | Monitoring Well | Active | 89.0                                     | 103.0                                     | 14.0                        | Bedrock                                | Q         | Eastern Site Perimeter     |
| MW-65S              | Monitoring Well | Active | 71.3                                     | 86.0                                      | 14.7                        | Bedrock                                | Q         | Eastern Site Perimeter     |
| MW-66D              | Monitoring Well | Active | 81.4                                     | 100.0                                     | 18.6                        | Bedrock                                | Q         | EPBA                       |
| MW-66S              | Monitoring Well | Active | 47.2                                     | 61.6                                      | 14.4                        | Bedrock                                | Q         | EPBA                       |
| MW-67D              | Monitoring Well | Active | 58.0                                     | 71.0                                      | 13.0                        | Bedrock                                | Q         | EPBA                       |
| MW-67S              | Monitoring Well | Active | 12.8                                     | 31.0                                      | 18.2                        | Overburden                             | NA        | EPBA                       |
| MW-68               | Monitoring Well | Active | 80.0                                     | 105.0                                     | 25.0                        | Bedrock                                | Q         | EPBA                       |
| MW-69               | Monitoring Well | Active | 77.0                                     | 126.0                                     | 49.0                        | Bedrock                                | LS        | South-Central Site Area    |
| MW-70D              | Monitoring Well | Active | 68.0                                     | 85.0                                      | 17.0                        | Bedrock                                | SS/Q/Phyl | Former NETT                |
| MW-70S              | Monitoring Well | Active | 15.8                                     | 35.0                                      | 19.2                        | Overburden                             | NA        | Former NETT                |
| MW-74D              | Monitoring Well | Active | 220.0                                    | 250.0                                     | 30.0                        | Bedrock                                | LS        | NW-WPL                     |
| MW-74S              | Monitoring Well | Active | 175.0                                    | 201.0                                     | 26.0                        | Bedrock                                | LS        | NW-WPL                     |
| MW-75D              | Monitoring Well | Active | 200.0                                    | 217.0                                     | 17.0                        | Bedrock                                | LS        | SW-WPL                     |
| MW-75S              | Monitoring Well | Active | 151.0                                    | 190.0                                     | 39.0                        | Bedrock                                | LS        | SW-WPL                     |
| MW-77               | Monitoring Well | Active | 35.0                                     | 67.0                                      | 32.0                        | Overburden                             | NA        | Petroleum Plume Area       |
| MW-78               | Monitoring Well | Active | 7.5                                      | 39.0                                      | 31.5                        | Overburden                             | NA        | NPA                        |
| MW-79               | Monitoring Well | Active | 17.0                                     | 42.0                                      | 25.0                        | Overburden                             | NA        | South-Central Site Area    |
| MW-81S              | Monitoring Well | Active | 28.0                                     | 43.0                                      | 15.0                        | Overburden and Bedrock                 | LS        | Former CPA                 |
| MW-81D              | Monitoring Well | Active | 52.0                                     | 66.0                                      | 14.0                        | Bedrock                                | LS        | Former CPA                 |
| MW-82               | Monitoring Well | Active | 53.5                                     | 76.0                                      | 22.5                        | Bedrock                                | LS        | Northern Site Perimeter    |
| MW-84               | Monitoring Well | Active | 67.0                                     | 98.0                                      | 31.0                        | Bedrock                                | LS        | NPA                        |
| MW-85               | Monitoring Well | Active | 120.0                                    | 150.0                                     | 30.0                        | Bedrock                                | LS        | South-Central Site Area    |
| MW-88               | Monitoring Well | Active | 30.0                                     | 50.0                                      | 20.0                        | Bedrock                                | LS        | South-Central Site Area    |
| MW-91               | Monitoring Well | Active | 50.0                                     | 75.0                                      | 25.0                        | Bedrock                                | Q         | EPBA                       |
| MW-92               | Monitoring Well | Active | 50.0                                     | 100.5                                     | 50.5                        | Bedrock                                | Q         | EPBA                       |
| MW-93D              | Monitoring Well | Active | 134.7                                    | 160.0                                     | 25.3                        | Bedrock                                | LS/Dolo   | SW-WPL                     |
| MW-93S              | Monitoring Well | Active | 24.0                                     | 45.0                                      | 21.0                        | Bedrock                                | LS/Dolo   | SW-WPL                     |
| MW-95               | Monitoring Well | Active | 37.0                                     | 49.5                                      | 12.5                        | Bedrock                                | LS        | NW-WPL                     |
| MW-96D              | Monitoring Well | Active | 75.0                                     | 87.5                                      | 12.5                        | Bedrock                                | LS        | NW-WPL                     |
| MW-96S              | Monitoring Well | Active | 27.0                                     | 39.0                                      | 12.0                        | Bedrock                                | LS        | NW-WPL                     |
| MW-97               | Monitoring Well | Active | 66.0                                     | 80.0                                      | 14.0                        | Bedrock                                | LS        | WPL                        |

**TABLE 2.2-4**  
**Monitoring Information for Post-Remediation Care Activities in 2024**  
**Former York Naval Ordnance Plant - York, PA**

| Well Identification | Type                     | Status | Depth to Top of Open Interval (feet bgs) | Depth to Base of Open Interval (feet bgs) | Open Interval Length (feet) | Open Interval in Overburden or Bedrock | Rock Type             | Site Location           |
|---------------------|--------------------------|--------|------------------------------------------|-------------------------------------------|-----------------------------|----------------------------------------|-----------------------|-------------------------|
| MW-98D              | Monitoring Well          | Active | 128.0                                    | 171.0                                     | 43.0                        | Bedrock                                | LS/Phyl               | Levee Area              |
| MW-98I              | Monitoring Well          | Active | 98.0                                     | 105.0                                     | 7.0                         | Bedrock                                | LS/Phyl               | Levee Area              |
| MW-98S              | Monitoring Well          | Active | 58.0                                     | 68.0                                      | 10.0                        | Bedrock                                | LS                    | Levee Area              |
| MW-99D              | Monitoring Well          | Active | 125.5                                    | 142.0                                     | 16.5                        | Bedrock                                | LS                    | Levee Area              |
| MW-99S              | Monitoring Well          | Active | 57.8                                     | 74.3                                      | 16.5                        | Bedrock                                | LS                    | Levee Area              |
| MW-100D             | Monitoring Well          | Active | 93.0                                     | 114.0                                     | 21.0                        | Bedrock                                | LS                    | Levee Area              |
| MW-100I             | Monitoring Well          | Active | 60.0                                     | 66.0                                      | 6.0                         | Bedrock                                | LS                    | Levee Area              |
| MW-100S             | Monitoring Well          | Active | 45.0                                     | 51.0                                      | 6.0                         | Bedrock                                | LS                    | Levee Area              |
| MW-101D             | Monitoring Well          | Active | 76.0                                     | 115.0                                     | 39.0                        | Bedrock                                | LS                    | Levee Area              |
| MW-101S             | Monitoring Well          | Active | 18.0                                     | 40.0                                      | 22.0                        | Overburden and Bedrock                 | LS                    | Levee Area              |
| MW-102D             | Monitoring Well          | Active | 75.0                                     | 99.0                                      | 24.0                        | Bedrock                                | SS                    | Former NETT             |
| MW-102S             | Monitoring Well          | Active | 41.0                                     | 65.0                                      | 24.0                        | Overburden                             | NA                    | Former NETT             |
| MW-103D             | Monitoring Well          | Active | 94.7                                     | 106.7                                     | 12.0                        | Bedrock                                | Phyl/Q                | Former NETT             |
| MW-103S             | Monitoring Well          | Active | 62.3                                     | 87.5                                      | 25.2                        | Overburden                             | NA                    | Former NETT             |
| MW-105              | Monitoring Well          | Active | 10.0                                     | 22.0                                      | 12.0                        | Overburden                             | NA                    | NW-WPL                  |
| MW-106              | Monitoring Well          | Active | 15.0                                     | 28.0                                      | 13.0                        | Overburden                             | NA                    | WPL                     |
| MW-107              | Monitoring Well          | Active | 11.0                                     | 23.0                                      | 12.0                        | Overburden                             | NA                    | SW-WPL                  |
| MW-108D             | Monitoring Well          | Active | 72.0                                     | 149.0                                     | 77.0                        | Bedrock                                | LS/SS/Q               | SPBA                    |
| MW-108S             | Monitoring Well          | Active | 22.9                                     | 55.1                                      | 32.2                        | Overburden                             | NA                    | SPBA                    |
| MW-109D             | Monitoring Well          | Active | 88.0                                     | 100.0                                     | 12.0                        | Bedrock                                | LS                    | SPA                     |
| MW-109S             | Monitoring Well          | Active | 42.9                                     | 65.0                                      | 22.1                        | Overburden                             | NA                    | SPA                     |
| MW-110              | Monitoring Well          | Active | 31.5                                     | 44.0                                      | 12.5                        | Bedrock                                | LS                    | SPA                     |
| MW-111              | Monitoring Well          | Active | 82.0                                     | 149.0                                     | 67.0                        | Bedrock                                | Phyl/Q                | South-Central Site Area |
| MW-112              | Monitoring Well          | Active | 97.5                                     | 120.0                                     | 22.5                        | Bedrock                                | LS                    | South-Central Site Area |
| MW-113              | Monitoring Well          | Active | 125.0                                    | 151.0                                     | 26.0                        | Bedrock                                | LS                    | Former Building 58      |
| MW-114              | Monitoring Well          | Active | 90.0                                     | 143.7                                     | 53.7                        | Bedrock                                | LS                    | Former CPA              |
| MW-115              | Monitoring Well          | Active | 111.5                                    | 124.5                                     | 13.0                        | Bedrock                                | LS                    | South-Central Site Area |
| MW-116              | Monitoring Well          | Active | 27.0                                     | 50.8                                      | 23.8                        | Overburden and Bedrock                 | Phyl/LS               | North Building 41       |
| MW-126              | Monitoring Well          | Active | 35.0                                     | 62.0                                      | 27.0                        | Bedrock                                | LS                    | Former Building 58      |
| MW-127              | Monitoring Well          | Active | 57.7                                     | 82.0                                      | 24.3                        | Bedrock                                | LS                    | Former Building 58      |
| MW-128              | Monitoring Well          | Active | 49.0                                     | 73.0                                      | 24.0                        | Bedrock                                | LS                    | Former Building 58      |
| MW-129              | Monitoring Well          | Active | 40.0                                     | 64.0                                      | 24.0                        | Bedrock                                | LS                    | Former Building 58      |
| MW-131              | Monitoring Well          | Active | 24.0                                     | 46.0                                      | 22.0                        | Overburden and Bedrock                 | LS                    | Former CPA              |
| MW-134              | Monitoring Well          | Active | 42.0                                     | 65.0                                      | 23.0                        | Bedrock                                | LS                    | Former West Building 2  |
| MW-136A (270-348)   | Waterloo Monitoring Well | Active | 270.0                                    | 348.0                                     | 78.0                        | Bedrock                                | LS                    | SW-WPL                  |
| MW-136A (356-356.5) | Waterloo Monitoring Well | Active | 351.0                                    | 365.5                                     | 14.5                        | Bedrock                                | LS                    | SW-WPL                  |
| MW-136A (372.5-373) | Waterloo Monitoring Well | Active | 368.5                                    | 378.0                                     | 9.5                         | Bedrock                                | LS                    | SW-WPL                  |
| MW-136A (434-434.5) | Waterloo Monitoring Well | Active | 429.0                                    | 438.5                                     | 9.5                         | Bedrock                                | LS                    | SW-WPL                  |
| MW-136A (459.5-460) | Waterloo Monitoring Well | Active | 441.5                                    | 467.0                                     | 25.5                        | Bedrock                                | Dolo                  | SW-WPL                  |
| MW-137A (295.5-296) | Waterloo Monitoring Well | Active | 270.0                                    | 306.0                                     | 36.0                        | Bedrock                                | LS                    | Former TCA Tank Area    |
| MW-137A (343-343.5) | Waterloo Monitoring Well | Active | 340.0                                    | 350.5                                     | 10.5                        | Bedrock                                | LS                    | Former TCA Tank Area    |
| MW-137A (374.5-375) | Waterloo Monitoring Well | Active | 369.5                                    | 384.0                                     | 14.5                        | Bedrock                                | Marble                | Former TCA Tank Area    |
| MW-137A (420-420.5) | Waterloo Monitoring Well | Active | 415.0                                    | 426.5                                     | 11.5                        | Bedrock                                | Marble/Q              | Former TCA Tank Area    |
| MW-137A (434.5-435) | Waterloo Monitoring Well | Active | 429.5                                    | 452.0                                     | 22.5                        | Bedrock                                | Q                     | Former TCA Tank Area    |
| MW-138A             | Monitoring Well          | Active | 260.0                                    | 320.0                                     | 60.0                        | Bedrock                                | LS/Dolo               | Former Building 58      |
| MW-139A (305-305.5) | Waterloo Monitoring Well | Active | 295.0                                    | 325.5                                     | 30.5                        | Bedrock                                | Dolo                  | Former North Building 4 |
| MW-139A (333.5-334) | Waterloo Monitoring Well | Active | 328.5                                    | 357.0                                     | 28.5                        | Bedrock                                | Dolo                  | Former North Building 4 |
| MW-139A (365-365.5) | Waterloo Monitoring Well | Active | 360.0                                    | 370.5                                     | 10.5                        | Bedrock                                | Dolo                  | Former North Building 4 |
| MW-139A (421.5-422) | Waterloo Monitoring Well | Active | 416.5                                    | 426.0                                     | 9.5                         | Bedrock                                | Dolo                  | Former North Building 4 |
| MW-139A (454-454.5) | Waterloo Monitoring Well | Active | 452.0                                    | 470.0                                     | 18.0                        | Bedrock                                | Dolo                  | Former North Building 4 |
| MW-140A (209.5-210) | Waterloo Monitoring Well | Active | 205.0                                    | 215.0                                     | 10.0                        | Bedrock                                | Phyl/Q/Dolo/LS/Marble | Former East Building 2  |
| MW-140A (285-285.5) | Waterloo Monitoring Well | Active | 278.5                                    | 289.3                                     | 10.8                        | Bedrock                                | Phyl/Q/Dolo/LS/Marble | Former East Building 2  |
| MW-140A (323.5-324) | Waterloo Monitoring Well | Active | 318.5                                    | 326.0                                     | 7.5                         | Bedrock                                | Phyl/Q/Dolo/LS/Marble | Former East Building 2  |
| MW-140A (372-372.5) | Waterloo Monitoring Well | Active | 367.0                                    | 378.5                                     | 11.5                        | Bedrock                                | Phyl/Q/Dolo/LS/Marble | Former East Building 2  |

**TABLE 2.2-4**  
**Monitoring Information for Post-Remediation Care Activities in 2024**  
**Former York Naval Ordnance Plant - York, PA**

| Well Identification | Type                     | Status | Depth to Top of Open Interval (feet bgs) | Depth to Base of Open Interval (feet bgs) | Open Interval Length (feet) | Open Interval in Overburden or Bedrock | Rock Type             | Site Location           |
|---------------------|--------------------------|--------|------------------------------------------|-------------------------------------------|-----------------------------|----------------------------------------|-----------------------|-------------------------|
| MW-140A (407.5-408) | Waterloo Monitoring Well | Active | 402.5                                    | 416.0                                     | 13.5                        | Bedrock                                | Phyl/Q/Dolo/LS/Marble | Former East Building 2  |
| MW-141A             | Monitoring Well          | Active | 200.0                                    | 300.0                                     | 100.0                       | Bedrock                                | LS/Dolo               | SPBA                    |
| MW-142D             | Monitoring Well          | Active | 122.0                                    | 145.4                                     | 23.4                        | Bedrock                                | SS/Phyl               | NPBA                    |
| MW-142S             | Monitoring Well          | Active | 56.0                                     | 70.0                                      | 14.0                        | Bedrock                                | SS/Phyl               | NPBA                    |
| MW-143D             | Monitoring Well          | Active | 117.4                                    | 134.0                                     | 16.6                        | Bedrock                                | Dolo                  | NPBA                    |
| MW-143S             | Monitoring Well          | Active | 24.0                                     | 54.5                                      | 30.5                        | Overburden                             | NA                    | NPBA                    |
| MW-144              | Monitoring Well          | Active | 12.0                                     | 24.0                                      | 12.0                        | Overburden                             | NA                    | Levee Area              |
| MW-145A             | Monitoring Well          | Active | 200.0                                    | 250.0                                     | 50.0                        | Bedrock                                | LS/Dolo               | Levee Area              |
| MW-146              | Monitoring Well          | Active | 13.0                                     | 25.0                                      | 12.0                        | Overburden                             | NA                    | Levee Area              |
| MW-147A             | Monitoring Well          | Active | 200.0                                    | 250.0                                     | 50.0                        | Bedrock                                | LS/Dolo               | Levee Area              |
| MW-148A (72.5-73)   | Waterloo Monitoring Well | Active | 67.0                                     | 78.0                                      | 11.0                        | Bedrock                                | Phyl/LS/Dolo          | West Side Codorus Creek |
| MW-148A (136-136.5) | Waterloo Monitoring Well | Active | 130.0                                    | 140.5                                     | 10.5                        | Bedrock                                | Phyl/LS/Dolo          | West Side Codorus Creek |
| MW-148A (218-218.5) | Waterloo Monitoring Well | Active | 210.7                                    | 221.0                                     | 10.3                        | Bedrock                                | Phyl/LS/Dolo          | West Side Codorus Creek |
| MW-150              | Monitoring Well          | Active | 147.5                                    | 200.0                                     | 52.5                        | Bedrock                                | Marble                | SPA                     |
| MW-151              | Monitoring Well          | Active | 20.2                                     | 72.0                                      | 51.8                        | Bedrock                                | LS/Dolo/Q             | SPA                     |
| MW-152 (23-23.5)    | Waterloo Monitoring Well | Active | 13.0                                     | 30.5                                      | 17.5                        | Overburden and Bedrock                 | LS/Dolo               | Giambalvo Property      |
| MW-152 (137.5-138)  | Waterloo Monitoring Well | Active | 122.5                                    | 200.0                                     | 77.5                        | Bedrock                                | LS                    | Giambalvo Property      |
| MW-155              | Monitoring Well          | Active | 10.5                                     | 24.0                                      | 13.5                        | Bedrock                                | LS                    | Levee Area              |
| MW-156              | Monitoring Well          | Active | 4.0                                      | 22.0                                      | 18.0                        | Overburden                             | NA                    | Levee Area              |
| MW-161              | Monitoring Well          | Active | 53.0                                     | 65.7                                      | 12.7                        | Overburden                             | NA                    | SPBA                    |
| MW-162R             | Monitoring Well          | Active | 30.0                                     | 70.0                                      | 40.0                        | Overburden and Bedrock                 | LS                    | SPBA                    |
| MW-163              | Monitoring Well          | Active | 32.8                                     | 55.0                                      | 22.2                        | Bedrock                                | LS                    | SPBA                    |
| MW-164              | Monitoring Well          | Active | 40.0                                     | 53.0                                      | 13.0                        | Bedrock                                | SS/Q                  | SPBA                    |
| MW-165              | Monitoring Well          | Active | 47.5                                     | 70.5                                      | 23.0                        | Bedrock                                | SS/Dolo               | SPBA                    |
| MW-166              | Monitoring Well          | Active | 39.0                                     | 52.0                                      | 13.0                        | Overburden                             | NA                    | SPBA                    |
| MW-167              | Monitoring Well          | Active | 39.0                                     | 52.0                                      | 13.0                        | Overburden                             | NA                    | SPBA                    |
| MW-168              | Monitoring Well          | Active | 28.5                                     | 42.0                                      | 13.5                        | Overburden                             | NA                    | SPBA                    |
| MW-169              | Monitoring Well          | Active | 32.5                                     | 47.0                                      | 14.5                        | Overburden                             | NA                    | SPBA                    |
| MW-170              | Monitoring Well          | Active | 19.2                                     | 32.3                                      | 13.1                        | Overburden                             | NA                    | SPBA                    |
| MW-171              | Monitoring Well          | Active | 30.8                                     | 43.5                                      | 12.7                        | Overburden and Bedrock                 | LS                    | SPBA                    |
| MW-172              | Monitoring Well          | Active | 23.9                                     | 38.5                                      | 14.6                        | Overburden                             | NA                    | SPA                     |
| MW-173              | Monitoring Well          | Active | 18.7                                     | 32.8                                      | 14.1                        | Overburden                             | NA                    | SPA                     |
| MW-174              | Monitoring Well          | Active | 18.9                                     | 31.8                                      | 12.9                        | Overburden                             | NA                    | SPA                     |
| MW-175              | Monitoring Well          | Active | 16.6                                     | 28.9                                      | 12.3                        | Overburden                             | NA                    | SPA                     |
| MW-176              | Monitoring Well          | Active | 28.0                                     | 51.0                                      | 23.0                        | Overburden                             | NA                    | SPBA                    |
| MW-177R             | Monitoring Well          | Active | 27.5                                     | 65.0                                      | 37.5                        | Overburden and Bedrock                 | LS                    | SPBA                    |
| MW-178D             | Monitoring Well          | Active | 90.0                                     | 100.0                                     | 10.0                        | Bedrock                                | LS                    | SPBA                    |
| MW-178S             | Monitoring Well          | Active | 72.0                                     | 84.0                                      | 12.0                        | Bedrock                                | LS                    | SPBA                    |
| MW-179              | Monitoring Well          | Active | 36.0                                     | 66.0                                      | 30.0                        | Overburden                             | NA                    | SPBA                    |
| MW-180              | Monitoring Well          | Active | 36.0                                     | 62.0                                      | 26.0                        | Overburden                             | NA                    | SPBA                    |
| MW-181D             | Monitoring Well          | Active | 93.0                                     | 100.0                                     | 7.0                         | Bedrock                                | LS                    | SPBA                    |
| MW-181S             | Monitoring Well          | Active | 61.0                                     | 71.0                                      | 10.0                        | Bedrock                                | LS                    | SPBA                    |
| MW-182              | Monitoring Well          | Active | 27.0                                     | 39.0                                      | 12.0                        | Overburden                             | NA                    | SPBA                    |
| MW-183              | Monitoring Well          | Active | 27.0                                     | 40.0                                      | 13.0                        | Overburden                             | NA                    | SPBA                    |
| MW-184D             | Monitoring Well          | Active | 66.0                                     | 74.0                                      | 8.0                         | Bedrock                                | LS                    | SPBA                    |
| MW-184S             | Monitoring Well          | Active | 51.0                                     | 59.0                                      | 8.0                         | Bedrock                                | SS                    | SPBA                    |
| MW-185              | Monitoring Well          | Active | 55.9                                     | 77.5                                      | 21.6                        | Bedrock                                | Q                     | EPBA                    |
| MW-186              | Monitoring Well          | Active | 29.9                                     | 63.0                                      | 33.1                        | Bedrock                                | Q                     | Northern Site Perimeter |
| Cole B              | Monitoring Well          | Active | 6.0                                      | 16.0                                      | 10.0                        | Overburden and Bedrock                 | NA                    | SPA                     |
| Cole D              | Monitoring Well          | Active | 25.0                                     | 35.0                                      | 10.0                        | Overburden and Bedrock                 | LS                    | SPA                     |
| Cole E deep         | Monitoring Well          | Active | --                                       | --                                        | --                          | --                                     | --                    | SPA                     |
| Cole E shallow      | Monitoring Well          | Active | --                                       | --                                        | --                          | --                                     | --                    | SPA                     |
| Cole F              | Monitoring Well          | Active | 18.0                                     | 34.0                                      | 16.0                        | Overburden and Bedrock                 | NA                    | SPA                     |
| Cole (Flush)        | Monitoring Well          | Active | 12.0                                     | 25.0                                      | 13.0                        | Overburden and Bedrock                 | NA                    | SPA                     |

**TABLE 2.2-4**  
**Monitoring Information for Post-Remediation Care Activities in 2024**  
**Former York Naval Ordnance Plant - York, PA**

| Well Identification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Type                        | Status   | Depth to Top of Open Interval (feet bgs) | Depth to Base of Open Interval (feet bgs) | Open Interval Length (feet) | Open Interval in Overburden or Bedrock | Rock Type | Site Location           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------|------------------------------------------|-------------------------------------------|-----------------------------|----------------------------------------|-----------|-------------------------|
| GM-1D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Monitoring Well             | Active   | 32.0                                     | 44.0                                      | 12.0                        | Overburden and Bedrock                 | LS        | SPA                     |
| MW-4 (Cole)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Monitoring Well             | Active   | 13.0                                     | 32.0                                      | 19.0                        | Overburden and Bedrock                 | NA        | SPA                     |
| Cole Steel (MW-12)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Monitoring Well             | Active   | 16.0                                     | 50.0                                      | 34.0                        | Overburden and Bedrock                 | LS        | SPA                     |
| CODORUS 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Bridge Surface Gaging Point | Active   | NA                                       | NA                                        | NA                          | NA                                     | NA        | Codorus Creek           |
| CODORUS 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Staff Gage                  | Inactive | NA                                       | NA                                        | NA                          | NA                                     | NA        | Codorus Creek           |
| JOHNSON 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Surface Water               | Active   | NA                                       | NA                                        | NA                          | NA                                     | NA        | Johnson's Run           |
| JOHNSON 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Surface Water               | Active   | NA                                       | NA                                        | NA                          | NA                                     | NA        | Johnson's Run           |
| RW-4 (Folk)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Residential Well            | Active   | --                                       | --                                        | --                          | --                                     | Q         | NPBA                    |
| RW-5 (Giambalvo)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Monitoring Well             | Active   | --                                       | --                                        | --                          | --                                     | --        | Giambalvo Property      |
| RW-6 (Kinsley Well)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Monitoring Well             | Active   | --                                       | --                                        | --                          | --                                     | --        | Northern Site Perimeter |
| WPL-SS-7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Monitoring Well             | Active   | 13.0                                     | 27.0                                      | 14.0                        | Overburden                             | NA        | WPL                     |
| WPL-SS-8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Monitoring Well             | Active   | 12.0                                     | 24.0                                      | 12.0                        | Overburden and Bedrock                 | LS        | NW-WPL                  |
| COD-SW-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Surface Water Location      | Active   | NA                                       | NA                                        | NA                          | NA                                     | NA        | Codorus Creek           |
| COD-SW-7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Surface Water Location      | Active   | NA                                       | NA                                        | NA                          | NA                                     | NA        | Codorus Creek           |
| COD-SW-8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Surface Water Location      | Active   | NA                                       | NA                                        | NA                          | NA                                     | NA        | Codorus Creek           |
| COD-SW-9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Surface Water Location      | Active   | NA                                       | NA                                        | NA                          | NA                                     | NA        | Codorus Creek           |
| COD-SW-13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Surface Water Location      | Active   | NA                                       | NA                                        | NA                          | NA                                     | NA        | Codorus Creek           |
| COD-SW-15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Surface Water Location      | Active   | NA                                       | NA                                        | NA                          | NA                                     | NA        | Codorus Creek           |
| COD-SW-16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Surface Water Location      | Active   | NA                                       | NA                                        | NA                          | NA                                     | NA        | Codorus Creek           |
| COD-SW-17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Surface Water Location      | Active   | NA                                       | NA                                        | NA                          | NA                                     | NA        | Codorus Creek           |
| COD-SW-26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Surface Water Location      | Active   | NA                                       | NA                                        | NA                          | NA                                     | NA        | Codorus Creek           |
| COD-SW-27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Surface Water Location      | Active   | NA                                       | NA                                        | NA                          | NA                                     | NA        | Codorus Creek           |
| COD-SW-28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Surface Water Location      | Active   | NA                                       | NA                                        | NA                          | NA                                     | NA        | Codorus Creek           |
| COD-SW-29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Surface Water Location      | Active   | NA                                       | NA                                        | NA                          | NA                                     | NA        | Codorus Creek           |
| <p>Notes:</p> <div> <div> bgs - below ground surface<br/> NA - Not Applicable<br/> -- = Information not available<br/> CPA - Central Plant Area<br/> EPBA - Eastern Property Boundary Area<br/> NPBA - Northern Property Boundary Area<br/> NW-WPL - Northwest West Parking Lot<br/> NETT - North End Test Track<br/> NPA - North Plant Area<br/> SPA - South Plume Area<br/> SPBA - Southern Property Boundary Area<br/> SW-WPL - Southwest West Parking Lot<br/> TCA - 1,1,1-Trichloroethane<br/> Recent well abandonments include MW-86S/D, MW-187, MW-188, and MW-189 in 2023 and MW-80 and MW-87 in 2024. </div> <div> Dolo - Dolostone<br/> LS - Limestone<br/> Phyl - Phyllite<br/> Q - Quartzite<br/> SS - Sandstone </div> </div> |                             |          |                                          |                                           |                             |                                        |           |                         |

**TABLE 2.2-5**  
**SPBA Groundwater Extraction System Remedial Action Performance Data for January through December 2024**  
**Former York Naval Ordnance Plant - York, PA**

| Quarter/Year                                                                                                                                                                                                                                                                                                                                             | Total Volatile Organic Compound (VOC) Concentration (µg/L) | Volume of Groundwater Pumped per Quarter (gallons) | Volume of Groundwater Pumped per Quarter (MG) | Total VOC Mass Removed per Quarter (pounds) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------|---------------------------------------------|
| 1Q2024                                                                                                                                                                                                                                                                                                                                                   | 84                                                         | 888,902                                            | 0.9                                           | 0.6                                         |
| 2Q2024                                                                                                                                                                                                                                                                                                                                                   | 96                                                         | 884,793                                            | 0.9                                           | 0.7                                         |
| 3Q2024                                                                                                                                                                                                                                                                                                                                                   | 84                                                         | 761,073                                            | 0.8                                           | 0.5                                         |
| 4Q2024                                                                                                                                                                                                                                                                                                                                                   | 79                                                         | 624,554                                            | 0.6                                           | 0.4                                         |
| <b>2024 TOTAL</b>                                                                                                                                                                                                                                                                                                                                        |                                                            | <b>3,159,322</b>                                   |                                               | <b>2.3</b>                                  |
| Notes: µg/L - micrograms per liter<br>MG - million gallons<br>Volume of groundwater pumped per month based on flow meter data for extraction wells CW-21, CW-22, and CW-23<br>HTG collected SPBA extraction system groundwater samples quarterly during 2024. The total VOC mass removed per quarter were calculated using the quarterly concentrations. |                                                            |                                                    |                                               |                                             |

**TABLE 2.2-6**  
**MNA Area Well Information for 2024**  
**Former York Naval Ordnance Plant - York, PA**

| Well Identification                                                                                                             | Well Type       | Well Status | Depth to Top of Open Interval (feet bgs)                                                 | Depth to Base of Open Interval (feet bgs) | Open Interval Length (feet) | Open Interval in Overburden or Bedrock | Bedrock Type | Site Area Designation   |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------|----------------------------------------|--------------|-------------------------|
| CW-1A                                                                                                                           | Collection Well | Inactive    | 29.0                                                                                     | 74.0                                      | 45.0                        | Bedrock                                | Phyl         | NPBA                    |
| CW-2                                                                                                                            | Collection Well | Inactive    | 48.0                                                                                     | 150.0                                     | 102.0                       | Bedrock                                | SS/Phyl      | NPBA                    |
| MW-2                                                                                                                            | Monitoring Well | Active      | 46.0                                                                                     | 121.0                                     | 75.0                        | Bedrock                                | SS           | Eastern Site Perimeter  |
| MW-3                                                                                                                            | Monitoring Well | Active      | 50.0                                                                                     | 102.0                                     | 52.0                        | Bedrock                                | SS/Q         | NPBA                    |
| MW-5                                                                                                                            | Monitoring Well | Active      | 10.0                                                                                     | 53.0                                      | 43.0                        | Overburden and Bedrock                 | LS           | Northern Site Perimeter |
| MW-6                                                                                                                            | Monitoring Well | Active      | 7.0                                                                                      | 40.0                                      | 33.0                        | Overburden and Bedrock                 | LS           | Northern Site Perimeter |
| MW-9                                                                                                                            | Monitoring Well | Active      | 59.0                                                                                     | 97.0                                      | 38.0                        | Bedrock                                | SS/Phyl      | NPBA                    |
| MW-12                                                                                                                           | Monitoring Well | Active      | 30.0                                                                                     | 100.0                                     | 70.0                        | Bedrock                                | SS/Q         | NPBA                    |
| MW-14                                                                                                                           | Monitoring Well | Active      | 18.0                                                                                     | 80.0                                      | 62.0                        | Bedrock                                | SS/Q         | Eastern Site Perimeter  |
| MW-16S                                                                                                                          | Monitoring Well | Active      | 98.0                                                                                     | 110.0                                     | 12.0                        | Bedrock                                | SS/Q/Phyl    | NPBA                    |
| MW-18D                                                                                                                          | Monitoring Well | Active      | 130.0                                                                                    | 140.0                                     | 10.0                        | Bedrock                                | SS/Q/Phyl    | NPBA                    |
| MW-18S                                                                                                                          | Monitoring Well | Active      | 45.0                                                                                     | 65.0                                      | 20.0                        | Bedrock                                | SS/Q/Phyl    | NPBA                    |
| MW-20M                                                                                                                          | Monitoring Well | Active      | 72.0                                                                                     | 85.0                                      | 13.0                        | Bedrock                                | SS/Q         | NPBA                    |
| MW-20S                                                                                                                          | Monitoring Well | Active      | 28.0                                                                                     | 61.0                                      | 33.0                        | Bedrock                                | SS/Q         | NPBA                    |
| MW-22                                                                                                                           | Monitoring Well | Active      | 30.0                                                                                     | 100.0                                     | 70.0                        | Bedrock                                | SS/Q         | SPBA                    |
| MW-43D                                                                                                                          | Monitoring Well | Active      | 79.0                                                                                     | 92.0                                      | 13.0                        | Bedrock                                | LS           | SPA                     |
| MW-65S                                                                                                                          | Monitoring Well | Active      | 71.3                                                                                     | 86.0                                      | 14.7                        | Bedrock                                | Q            | Eastern Site Perimeter  |
| MW-67D                                                                                                                          | Monitoring Well | Active      | 58.0                                                                                     | 71.0                                      | 13.0                        | Bedrock                                | Q            | South-Central Site Area |
| MW-67S                                                                                                                          | Monitoring Well | Active      | 12.8                                                                                     | 31.0                                      | 18.2                        | Overburden                             | NA           | South-Central Site Area |
| MW-69                                                                                                                           | Monitoring Well | Active      | 77.0                                                                                     | 126.0                                     | 49.0                        | Bedrock                                | LS           | South-Central Site Area |
| MW-79                                                                                                                           | Monitoring Well | Active      | 17.0                                                                                     | 42.0                                      | 25.0                        | Overburden                             | NA           | South-Central Site Area |
| MW-82                                                                                                                           | Monitoring Well | Active      | 53.5                                                                                     | 76.0                                      | 22.5                        | Bedrock                                | LS           | Northern Site Perimeter |
| MW-88                                                                                                                           | Monitoring Well | Active      | 30.0                                                                                     | 50.0                                      | 20.0                        | Bedrock                                | LS           | South-Central Site Area |
| MW-101D                                                                                                                         | Monitoring Well | Active      | 76.0                                                                                     | 115.0                                     | 39.0                        | Bedrock                                | LS           | Levee Area              |
| MW-101S                                                                                                                         | Monitoring Well | Active      | 18.0                                                                                     | 40.0                                      | 22.0                        | Overburden and Bedrock                 | LS           | Levee Area              |
| MW-108D                                                                                                                         | Monitoring Well | Active      | 72.0                                                                                     | 149.0                                     | 77.0                        | Bedrock                                | LS/SS/Q      | SPBA                    |
| MW-108S                                                                                                                         | Monitoring Well | Active      | 22.9                                                                                     | 55.1                                      | 32.2                        | Overburden                             | NA           | SPBA                    |
| MW-110                                                                                                                          | Monitoring Well | Active      | 31.5                                                                                     | 44.0                                      | 12.5                        | Bedrock                                | LS           | SPA                     |
| MW-111                                                                                                                          | Monitoring Well | Active      | 82.0                                                                                     | 149.0                                     | 67.0                        | Bedrock                                | Phyl/Q       | South-Central Site Area |
| MW-112                                                                                                                          | Monitoring Well | Active      | 97.5                                                                                     | 120.0                                     | 22.5                        | Bedrock                                | LS           | South-Central Site Area |
| MW-115                                                                                                                          | Monitoring Well | Active      | 111.5                                                                                    | 124.5                                     | 13.0                        | Bedrock                                | LS           | South-Central Site Area |
| MW-143D                                                                                                                         | Monitoring Well | Active      | 117.4                                                                                    | 134.0                                     | 16.6                        | Bedrock                                | Dolo         | NPBA                    |
| MW-143S                                                                                                                         | Monitoring Well | Active      | 24.0                                                                                     | 54.5                                      | 30.5                        | Overburden                             | NA           | NPBA                    |
| MW-148A (72.5-73)                                                                                                               | Monitoring Well | Active      | 67.0                                                                                     | 78.0                                      | 11.0                        | Bedrock                                | Phyl/LS/Dolo | West Side Codorus Creek |
| MW-148A (136-136.5)                                                                                                             | Monitoring Well | Active      | 130.0                                                                                    | 140.5                                     | 10.5                        | Bedrock                                | Phyl/LS/Dolo | West Side Codorus Creek |
| MW-150                                                                                                                          | Monitoring Well | Active      | 147.5                                                                                    | 200.0                                     | 52.5                        | Bedrock                                | Marble       | SPA                     |
| MW-165                                                                                                                          | Monitoring Well | Active      | 47.5                                                                                     | 70.5                                      | 23.0                        | Bedrock                                | SS/Dolo      | SPBA                    |
| MW-166                                                                                                                          | Monitoring Well | Active      | 39.0                                                                                     | 52.0                                      | 13.0                        | Overburden                             | NA           | SPBA                    |
| MW-167                                                                                                                          | Monitoring Well | Active      | 39.0                                                                                     | 52.0                                      | 13.0                        | Overburden                             | NA           | SPBA                    |
| MW-168                                                                                                                          | Monitoring Well | Active      | 28.5                                                                                     | 42.0                                      | 13.5                        | Overburden                             | NA           | SPBA                    |
| MW-186                                                                                                                          | Monitoring Well | Active      | 29.9                                                                                     | 63.0                                      | 33.1                        | Bedrock                                | Q            | Northern Site Perimeter |
| Cole D                                                                                                                          | Monitoring Well | Active      | 25.0                                                                                     | 35.0                                      | 10.0                        | Overburden and Bedrock                 | LS           | SPA                     |
| MW-12 (Cole Steel)                                                                                                              | Monitoring Well | Active      | 16.0                                                                                     | 50.0                                      | 34.0                        | Overburden and Bedrock                 | LS           | SPA                     |
| GM-1D                                                                                                                           | Monitoring Well | Active      | 32.0                                                                                     | 42.0                                      | 10.0                        | Overburden and Bedrock                 | LS           | SPA                     |
| Notes:<br>bgs - below ground surface<br>NPBA - Northern Property Boundary Area<br>SPA - South Plume Area<br>NA - Not Applicable |                 |             | Dolo - Dolostone<br>LS - Limestone<br>Phyl - Phyllite<br>Q - Quartzite<br>SS - Sandstone |                                           |                             |                                        |              |                         |

**TABLE 2.3-1**  
**SPBA Groundwater Extraction System Pumping Data for January through December 2024**  
**Former York Naval Ordnance Plant - York, PA**

| Month/Year           | CW-21 Average Monthly Pumping Rate (gpm) | CW-22 Average Monthly Pumping Rate (gpm) | CW-23 Average Monthly Pumping Rate (gpm) | Total SPBA Average Monthly Pumping Rate (gpm) | Total Monthly Precipitation (Inches) |
|----------------------|------------------------------------------|------------------------------------------|------------------------------------------|-----------------------------------------------|--------------------------------------|
| Jan-24               | 4.0                                      | 1.9                                      | 0.7                                      | 6.6                                           | 4.6                                  |
| Feb-24               | 4.1                                      | 1.9                                      | 0.8                                      | 6.8                                           | 2.3                                  |
| Mar-24               | 4.2                                      | 1.9                                      | 0.9                                      | 7.0                                           | 4.2                                  |
| Apr-24               | 4.8                                      | 1.9                                      | 1.1                                      | 7.8                                           | 4.1                                  |
| May-24               | 4.0                                      | 1.7                                      | 0.8                                      | 6.5                                           | 3.0                                  |
| Jun-24               | 3.7                                      | 1.6                                      | 0.6                                      | 5.9                                           | 2.2                                  |
| Jul-24               | 3.2                                      | 2.1                                      | 0.5                                      | 5.8                                           | 1.0                                  |
| Aug-24               | 3.4                                      | 2.1                                      | 0.4                                      | 5.9                                           | 0.5                                  |
| Sep-24               | 3.3                                      | 1.9                                      | 0.3                                      | 5.5                                           | 3.9                                  |
| Oct-24               | 2.6                                      | 2.0                                      | 0.2                                      | 4.8                                           | 0.2                                  |
| Nov-24               | 2.7                                      | 1.9                                      | 0.1                                      | 4.7                                           | 2.1                                  |
| Dec-24               | 3.0                                      | 1.6                                      | 0.0                                      | 4.6                                           | 3.2                                  |
| Average Monthly 2024 | 3.6                                      | 1.9                                      | 0.5                                      | 6.0                                           | 2.6                                  |

Notes: SPBA - Southern Property Boundary Area  
gpm - gallons per minute  
Average monthly pumping rates are based on extraction well totalizing flow meter readings  
Monthly precipitation data were obtained from the National Oceanic and Atmospheric Administration website:  
<https://www.noaa.gov/weather> (York, PA airport weather station).

TABLE 2.6-1  
Surface Water Quality Application - Surface Water Sampling Locations  
Former York Naval Ordnance Plant - York, PA

| Surface Water Sampling Location                                                                                                                                                                                                                                                                                                                                | Pennsylvania Department of Environmental Protection Surface Water Quality Criteria |     |              |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----|--------------|---|
|                                                                                                                                                                                                                                                                                                                                                                | Fish and Aquatic Life                                                              |     | Human Health |   |
|                                                                                                                                                                                                                                                                                                                                                                | AFC                                                                                | CFC | CRL          | H |
| COD-SW-26                                                                                                                                                                                                                                                                                                                                                      | X                                                                                  |     |              |   |
| COD-SW-6                                                                                                                                                                                                                                                                                                                                                       | X                                                                                  | X   | X            | X |
| COD-SW-7                                                                                                                                                                                                                                                                                                                                                       | X                                                                                  | X   | X            | X |
|                                                                                                                                                                                                                                                                                                                                                                |                                                                                    |     |              |   |
| COD-SW-17                                                                                                                                                                                                                                                                                                                                                      | X                                                                                  |     |              |   |
| COD-SW-16                                                                                                                                                                                                                                                                                                                                                      | X                                                                                  | X   |              |   |
| COD-SW-27                                                                                                                                                                                                                                                                                                                                                      | X                                                                                  | X   |              |   |
|                                                                                                                                                                                                                                                                                                                                                                |                                                                                    |     |              |   |
| COD-SW-15                                                                                                                                                                                                                                                                                                                                                      | X                                                                                  |     |              |   |
| COD-SW-13                                                                                                                                                                                                                                                                                                                                                      | X                                                                                  | X   |              |   |
| COD-SW-28                                                                                                                                                                                                                                                                                                                                                      | X                                                                                  | X   |              |   |
| COD-SW-8                                                                                                                                                                                                                                                                                                                                                       | X                                                                                  | X   |              |   |
| COD-SW-9                                                                                                                                                                                                                                                                                                                                                       | X                                                                                  | X   |              |   |
| COD-SW-29                                                                                                                                                                                                                                                                                                                                                      | X                                                                                  | X   | X            | X |
| Notes:<br>AFC - Acute Fish Criteria or Criteria Maximum Concentration<br>CFC - Chronic Fish Criteria or Criteria Continuous Concentration<br>CRL - Cancer Risk Level at $1 \times 10^{-6}$<br>H - Threshold human health criteria<br>X - Applicable surface water quality criteria from 25 Pa. Code Chapter 93 applies to samples collected from this location |                                                                                    |     |              |   |



TABLE 2.6-2  
Surface Water Quality Criteria  
Former York Naval Ordnance Plant - York, PA

| Constituent of Concern                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Pennsylvania Department of Environmental Protection Surface Water Quality Criteria |               |               |             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------|---------------|-------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Fish and Aquatic Life                                                              |               | Human Health  |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AFC<br>(µg/L)                                                                      | CFC<br>(µg/L) | CRL<br>(µg/L) | H<br>(µg/L) |
| cis-1,2-Dichloroethene (cis12DCE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NE                                                                                 | NE            | NE            | 12          |
| Tetrachloroethene (PCE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 700                                                                                | 140           | 10            | NE          |
| Trichloroethene (TCE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2,300                                                                              | 450           | 0.6           | NE          |
| Vinyl Chloride (VC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NE                                                                                 | NE            | 0.02          | NE          |
| <b>Notes:</b><br><br>Surface water quality criteria from 25 Pa. Code Chapter 93 - Water Quality Standards (Table 5 - Water Quality Criteria for Toxic Substances). The CRL values for PCE, TCE, and VC were amended on July 10, 2020 and are different than the CRL values in the Cleanup Plan.<br>AFC - Acute Fish Criteria or Criteria Maximum Concentration<br>CFC - Chronic Fish Criteria or Criteria Continuous Concentration<br>CRL - Cancer Risk Level at $1 \times 10^{-6}$<br>H - Threshold human health criterion<br>µg/L - micrograms per liter<br>NE - Criterion not established |                                                                                    |               |               |             |

| <b>TABLE 2.6-3</b><br><b>Monthly Surface Water Monitoring Information - 2024</b><br><b>Former York Naval Ordnance Plant - York, PA</b> |                                                                                               |                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Surface Water Sample Collection Date                                                                                                   | Sample Description                                                                            | Average Daily Stream Gage Discharge (1) on Sample Collection Date<br>Cubic Feet Per Second (cfs) |
| 01/29/24                                                                                                                               | Monthly Surface Water Sampling Conducted with the WPL Groundwater Extraction System Shut Down | 759                                                                                              |
| 02/23/24                                                                                                                               |                                                                                               | 279                                                                                              |
| 03/20/24                                                                                                                               |                                                                                               | 252                                                                                              |
| 04/29/24                                                                                                                               |                                                                                               | 118                                                                                              |
| 05/30/24                                                                                                                               |                                                                                               | 104                                                                                              |
| 06/26/24                                                                                                                               |                                                                                               | 67                                                                                               |
| 07/25/24                                                                                                                               |                                                                                               | 66                                                                                               |
| 08/20/24                                                                                                                               |                                                                                               | 62                                                                                               |
| 09/23/24                                                                                                                               |                                                                                               | 88                                                                                               |
| 10/18/24                                                                                                                               |                                                                                               | 64                                                                                               |
| 11/25/24                                                                                                                               |                                                                                               | 63                                                                                               |
| 12/18/24                                                                                                                               |                                                                                               | 84                                                                                               |
| Notes:                                                                                                                                 | (1) Stream Gage Location - USGS 01575500 Codorus Creek near York, PA                          |                                                                                                  |

| TABLE 2.6-4<br>Surface Water Analytical Data Summary - Volatile Organic Compounds (VOCs) - 2024<br>Former York Naval Ordnance Plant - York, PA |                        |                        |                        |                        |                        |                        |                        |                        |                        |                         |                         |                         |                        |                        |                        |                        |                        |                        |                        |                        |                        |                         |                         |                         |                        |                        |                        |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|
| Location/Identification<br>Sample Date                                                                                                         | COD-SW-13<br>1/29/2024 | COD-SW-13<br>2/23/2024 | COD-SW-13<br>3/20/2024 | COD-SW-13<br>4/29/2024 | COD-SW-13<br>5/30/2024 | COD-SW-13<br>6/26/2024 | COD-SW-13<br>7/25/2024 | COD-SW-13<br>8/20/2024 | COD-SW-13<br>9/23/2024 | COD-SW-13<br>10/18/2024 | COD-SW-13<br>11/25/2024 | COD-SW-13<br>12/18/2024 | COD-SW-15<br>1/29/2024 | COD-SW-15<br>2/23/2024 | COD-SW-15<br>3/20/2024 | COD-SW-15<br>4/29/2024 | COD-SW-15<br>5/30/2024 | COD-SW-15<br>6/26/2024 | COD-SW-15<br>7/25/2024 | COD-SW-15<br>8/20/2024 | COD-SW-15<br>9/23/2024 | COD-SW-15<br>10/18/2024 | COD-SW-15<br>11/25/2024 | COD-SW-15<br>12/18/2024 | COD-SW-16<br>1/29/2024 | COD-SW-16<br>2/23/2024 | COD-SW-16<br>3/20/2024 | COD-SW-16<br>4/29/2024 |
| Volatile Organic Compound                                                                                                                      |                        |                        |                        |                        |                        |                        |                        |                        |                        |                         |                         |                         |                        |                        |                        |                        |                        |                        |                        |                        |                        |                         |                         |                         |                        |                        |                        |                        |
| 1,1,1,2-Tetrachloroethane                                                                                                                      | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| 1,1,1-Trichloroethane                                                                                                                          | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.13 J                 | 0.14 J                 | 0.5 U                  | 0.5 U                  | 0.12 J                  | 0.17 J                  | 0.5 U                   | 0.09 J                 | 0.31 J                 | 0.39 J                 | 0.3 J                  | 0.21 J                 | 0.23 J                 | 0.4 J                  | 0.28 J                 | 0.2 J                  | 0.21 J                  | 0.34 J                  | 0.45 J                  | 0.5 U                  | 0.5 U                  | 0.11 J                 | 0.5 U                  |
| 1,1,2,2-Tetrachloroethane                                                                                                                      | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| 1,1,2-Trichloroethane                                                                                                                          | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| 1,1-Dichloroethane                                                                                                                             | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.12 J                 | 0.15 J                 | 0.13 J                 | 0.5 U                  | 0.13 J                 | 0.1 J                  | 0.5 U                  | 0.5 U                  | 0.11 J                  | 0.15 J                  | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| 1,1-Dichloroethene                                                                                                                             | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.2 J                  | 0.22 J                 | 0.19 J                 | 0.12 J                 | 0.15 J                 | 0.21 J                 | 0.14 J                 | 0.12 J                 | 0.11 J                  | 0.19 J                  | 0.22 J                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| 1,2-Dibromoethane                                                                                                                              | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| 1,2-Dichloroethane                                                                                                                             | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| 1,2-Dichloropropane                                                                                                                            | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| 2-Butanone                                                                                                                                     | 5 U                    | 5 U                    | 5 U                    | 5 UJ                   | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                     | 5 U                     | 5 U                     | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                     | 5 U                     | 5 U                     | 5 U                    | 5 U                    | 5 U                    | 5 U                    |
| 2-Hexanone                                                                                                                                     | 5 U                    | 5 U                    | 5 U                    | 5 UJ                   | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                     | 5 U                     | 5 U                     | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                     | 5 U                     | 5 U                     | 5 U                    | 5 U                    | 5 U                    | 5 U                    |
| 4-Methyl-2-Pentanone                                                                                                                           | 5 U                    | 5 U                    | 5 U                    | 5 UJ                   | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                     | 5 U                     | 5 U                     | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                     | 5 U                     | 5 U                     | 5 U                    | 5 U                    | 5 U                    | 5 U                    |
| Acetone                                                                                                                                        | 1.8 J                  | 1.6 J                  | 1.5 J                  | 2.9 J                  | 1.8 J                  | 2 J                    | 1.9 J                  | 5 U                    | 5 U                    | 5 U                     | 13 J                    | 1.8 J                   | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                     | 5 U                     | 5 U                     | 1.2 J                  | 1.5 J                  | 1.6 J                  | 1.6 J                  |
| Benzene                                                                                                                                        | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| Bromochloromethane                                                                                                                             | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| Bromodichloromethane                                                                                                                           | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| Bromoform                                                                                                                                      | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1 U                    | 1 U                    | 1 U                    |
| Bromomethane                                                                                                                                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 UJ                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| Carbon Disulfide                                                                                                                               | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 0.14 J                  | 1 U                     | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1 U                    | 1 U                    | 1 U                    |
| Carbon Tetrachloride                                                                                                                           | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| Chlorobenzene                                                                                                                                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| Chlorodibromomethane                                                                                                                           | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| Chloroethane                                                                                                                                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 UJ                 | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 UJ                 | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| Chloroform                                                                                                                                     | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.13 J                  | 0.13 J                  | 0.1 J                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.21 J                 | 0.19 J                 | 0.22 J                 | 0.19 J                 | 0.15 J                 | 0.17 J                 | 0.18 J                  | 0.17 J                  | 0.19 J                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| Chloromethane                                                                                                                                  | 0.5 U                  | 0.5 U                  | 0.16 J                 | 0.11 J                 | 0.5 U                  | 0.5 U                  | 0.5 UJ                 | 0.5 U                  | 0.5 UJ                 | 0.5 U                   | 0.5 U                   | 0.17 J                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.13 J                 | 0.5 U                  | 0.5 U                  | 0.5 UJ                 | 0.5 U                  | 0.5 UJ                 | 0.5 U                   | 0.5 UJ                  | 0.2 J                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| cis-1,2-Dichloroethene                                                                                                                         | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.11 J                 | 0.11 J                 | 0.21 J                 | 0.2 J                  | 0.16 J                 | 0.11 J                 | 0.24 J                  | 0.28 J                  | 0.16 J                  | 0.61                   | 1.6                    | 1.3                    | 0.97                   | 0.66                   | 0.76                   | 1.5                    | 0.9                    | 0.64                   | 0.76                    | 1.4                     | 2                       | 0.5 U                  | 0.5 U                  | 0.095 J                | 0.13 J                 |
| cis-1,3-Dichloropropene                                                                                                                        | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5                    |                        |                        |                        |                         |                         |                         |                        |                        |                        |                        |

Notes:  
Results are reported in micrograms per liter (µg/L)  
U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".  
J - Estimated. Concentration between RL and Method Detection Limit (MDL)

| TABLE 2.6-4<br>Surface Water Analytical Data Summary - Volatile Organic Compounds (VOCs) - 2024<br>Former York Naval Ordnance Plant - York, PA |                        |                        |                        |                        |                        |                         |                         |                         |                        |                                     |                        |                                     |                        |                                     |                        |                                     |                        |                                     |                        |                                     |                        |                                     |                        |                                     |                        |                                     |                         |                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|------------------------|-------------------------------------|------------------------|-------------------------------------|------------------------|-------------------------------------|------------------------|-------------------------------------|------------------------|-------------------------------------|------------------------|-------------------------------------|------------------------|-------------------------------------|------------------------|-------------------------------------|------------------------|-------------------------------------|-------------------------|--------------------------------------|
| Location/Identification<br>Sample Date                                                                                                         | COD-SW-16<br>5/30/2024 | COD-SW-16<br>6/26/2024 | COD-SW-16<br>7/25/2024 | COD-SW-16<br>8/20/2024 | COD-SW-16<br>9/23/2024 | COD-SW-16<br>10/18/2024 | COD-SW-16<br>11/25/2024 | COD-SW-16<br>12/18/2024 | COD-SW-17<br>1/29/2024 | COD-SW-17<br>Duplicate<br>1/29/2024 | COD-SW-17<br>2/23/2024 | COD-SW-17<br>Duplicate<br>2/23/2024 | COD-SW-17<br>3/20/2024 | COD-SW-17<br>Duplicate<br>3/20/2024 | COD-SW-17<br>4/29/2024 | COD-SW-17<br>Duplicate<br>4/29/2024 | COD-SW-17<br>5/30/2024 | COD-SW-17<br>Duplicate<br>5/30/2024 | COD-SW-17<br>6/26/2024 | COD-SW-17<br>Duplicate<br>6/26/2024 | COD-SW-17<br>7/25/2024 | COD-SW-17<br>Duplicate<br>7/25/2024 | COD-SW-17<br>8/20/2024 | COD-SW-17<br>Duplicate<br>8/20/2024 | COD-SW-17<br>9/23/2024 | COD-SW-17<br>Duplicate<br>9/23/2024 | COD-SW-17<br>10/18/2024 | COD-SW-17<br>Duplicate<br>10/18/2024 |
| Volatile Organic Compound                                                                                                                      |                        |                        |                        |                        |                        |                         |                         |                         |                        |                                     |                        |                                     |                        |                                     |                        |                                     |                        |                                     |                        |                                     |                        |                                     |                        |                                     |                        |                                     |                         |                                      |
| 1,1,1,2-Tetrachloroethane                                                                                                                      | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                   | 0.5 U                                |
| 1,1,1-Trichloroethane                                                                                                                          | 0.5 U                  | 0.15 J                 | 0.14 J                 | 0.17 J                 | 0.12 J                 | 0.15 J                  | 0.17 J                  | 0.5 U                   | 3.4                    | 3                                   | 8.8                    | 8.7                                 | 9.2                    | 8.5                                 | 9.2                    | 9.4                                 | 5.2                    | 5.7                                 | 8.9                    | 9.1                                 | 12                     | 12                                  | 10                     | 10                                  | 1.3                    | 1.4                                 | 11                      | 9.7                                  |
| 1,1,2,2-Tetrachloroethane                                                                                                                      | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                   | 0.5 U                                |
| 1,1,2-Trichloroethane                                                                                                                          | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 2                                   | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                   | 0.5 U                                |
| 1,1-Dichloroethane                                                                                                                             | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.98                   | 0.85                                | 1.8                    | 1.7                                 | 1.7                    | 1.8                                 | 1.8                    | 1.8                                 | 0.82                   | 1.2                                 | 1.6                    | 1.6                                 | 2.1                    | 2.1                                 | 1.8                    | 1.8                                 | 0.19 J                 | 0.23 J                              | 1.6                     | 1.6                                  |
| 1,1-Dichloroethene                                                                                                                             | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.37 J                 | 0.31 J                              | 0.71                   | 0.7                                 | 0.73                   | 0.68                                | 0.73                   | 0.82                                | 0.34 J                 | 0.45 J                              | 0.64                   | 0.69                                | 0.98                   | 1                                   | 0.8                    | 0.79                                | 0.11 J                 | 0.11 J                              | 0.82                    | 0.71                                 |
| 1,2-Dibromoethane                                                                                                                              | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                   | 0.5 U                                |
| 1,2-Dichloroethane                                                                                                                             | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                   | 0.5 U                                |
| 1,2-Dichloropropane                                                                                                                            | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                   | 0.5 U                                |
| 2-Butanone                                                                                                                                     | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                     | 5 U                     | 5 U                     | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                     | 5 U                                  |
| 2-Hexanone                                                                                                                                     | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                     | 5 U                     | 5 U                     | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                     | 5 U                                  |
| 4-Methyl-2-Pentanone                                                                                                                           | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                     | 5 U                     | 5 U                     | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                     | 5 U                                  |
| Acetone                                                                                                                                        | 5 U                    | 2.1 J                  | 1.7 J                  | 5 U                    | 5 U                    | 5 U                     | 15                      | 2.1 J                   | 1.3 J                  | 1.1 J                               | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                    | 5 U                                 | 5 U                     | 5 U                                  |
| Benzene                                                                                                                                        | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.11 J                  | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                   | 0.5 U                                |
| Bromochloromethane                                                                                                                             | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                   | 0.5 U                                |
| Bromodichloromethane                                                                                                                           | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                   | 0.5 U                                |
| Bromoform                                                                                                                                      | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1 U                                 | 1 U                    | 1 U                                 | 1 U                    | 1 U                                 | 1 U                    | 1 U                                 | 1 U                    | 1 U                                 | 1 U                    | 1 U                                 | 1 U                    | 1 U                                 | 1 U                    | 1 U                                 | 1 U                    | 1 U                                 | 1 U                     | 1 U                                  |
| Bromomethane                                                                                                                                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                   | 0.5 U                                |
| Carbon Disulfide                                                                                                                               | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 0.12 J                  | 1 U                     | 1 U                     | 1 U                    | 1 U                                 | 1 U                    | 1 U                                 | 1 U                    | 1 U                                 | 1 U                    | 1 U                                 | 1 U                    | 1 U                                 | 1 U                    | 1 U                                 | 1 U                    | 1 U                                 | 1 U                    | 1 U                                 | 1 U                    | 1 U                                 | 1 U                     | 1 U                                  |
| Carbon Tetrachloride                                                                                                                           | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                   | 0.5 U                                |
| Chlorobenzene                                                                                                                                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                   | 0.5 U                                |
| Chlorodibromomethane                                                                                                                           | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 UJ                  | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                   | 0.5 U                                |
| Chloroethane                                                                                                                                   | 0.5 U                  | 0.5 U                  | 0.5 UJ                 | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 UJ                 | 0.5 UJ                              | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 UJ                              | 0.5 U                   | 0.5 U                                |
| Chloroform                                                                                                                                     | 0.5 U                  | 0.5 U                  | 0.1 J                  | 0.091 J                | 0.5 U                  | 0.13 J                  | 0.11 J                  | 0.1 J                   | 0.11 J                 | 0.1 J                               | 0.5 U                  | 0.18 J                              | 0.5 U                  | 0.5 U                               | 0.2 J                  | 0.21 J                              | 0.11 J                 | 0.15 J                              | 0.19 J                 | 0.19 J                              | 0.17 J                 | 0.18 J                              | 0.15 J                 | 0.14 J                              | 0.5 U                  | 0.5 U                               | 0.2 J                   | 0.18 J                               |
| Chloromethane                                                                                                                                  | 0.5 U                  | 0.5 U                  | 0.5 UJ                 | 0.5 U                  | 0.5 UJ                 | 0.16 J                  | 0.5 UJ                  | 0.2 J                   | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.19 J                 | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 UJ                 | 0.5 UJ                              | 0.5 U                  | 0.5 U                               | 0.5 UJ                 | 0.5 UJ                              | 0.5 UJ                  | 0.5 U                                |
| cis-1,2-Dichloroethene                                                                                                                         | 0.5 U                  | 0.2 J                  | 0.2 J                  | 0.2 J                  | 0.13 J                 | 0.25 J                  | 0.22 J                  | 0.18 J                  | 5                      | 4                                   | 3.2                    | 3.1                                 | 4.8                    | 5.2                                 | 3.2                    | 3.1                                 | 1.7                    | 2.4                                 | 2                      | 2                                   | 3.2                    | 3.3                                 | 2.5                    | 2.7                                 | 0.47 J                 | 0.47 J                              | 2.5                     | 2.2                                  |
| cis-1,3-Dichloropropene                                                                                                                        | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                   | 0.5 U                                |
| Ethylbenzene                                                                                                                                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                   | 0.5 U                                |
| Methyl tert-butyl ether                                                                                                                        | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                   | 0.5 U                                |
| Methylene chloride                                                                                                                             | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                   | 0.5 U                                |
| Styrene                                                                                                                                        | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                   | 0.5 U                                |
| Tetrachloroethene                                                                                                                              | 1.4                    | 2.2                    | 2.1                    | 2.4                    | 1.8                    | 2.1 J                   | 2.7                     | 1.1                     | 42                     | 42                                  | 130                    | 140                                 | 120 J                  | 110                                 | 100                    | 100                                 | 67                     | 68                                  | 120                    | 130                                 | 140                    | 140                                 | 120                    | 120                                 | 21                     | 22                                  | 130                     | 140                                  |
| Toluene                                                                                                                                        | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.11 J                 | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                   | 0.5 U                                |
| trans-1,2-Dichloroethene                                                                                                                       | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                   | 0.5 U                                |
| trans-1,3-Dichloropropene                                                                                                                      | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                   | 0.5 U                                |
| Trichloroethene                                                                                                                                | 0.13 J                 | 0.21 J                 | 0.27 J                 | 0.23 J                 | 0.19 J                 | 0.31 J                  | 0.37 J                  | 0.35 J                  | 2.9                    | 2.4                                 | 4.5                    | 4.3                                 | 4.6                    | 4.7                                 | 4.1                    | 4.2                                 | 1.8                    | 2.3                                 | 3.1                    | 3.2                                 | 6.4                    | 6.5                                 | 4.2                    | 4.2                                 | 0.81                   | 0.89                                | 4.5                     | 4.4                                  |
| Vinyl Chloride                                                                                                                                 | 0.5 U                  | 0.5 U                  | 0.5 UJ                 | 0.5 U                  | 0.5 U                  | 0.5 UJ                  | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 U                               | 0.5 UJ                 | 0.5 UJ                              | 0.5 U                  | 0.5 U                               | 0.5 U                  | 0.5 UJ                              | 0.5 U                   | 0.5 U                                |
| Xylenes (Total)                                                                                                                                | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1 U                                 | 1 U                    | 1 U                                 | 1 U                    | 1 U                                 | 1 U                    | 1 U                                 | 1 U                    | 1 U                                 | 1 U                    | 1 U                                 | 1 U                    | 1 U                                 | 1 U                    | 1 U                                 | 1 U                    | 1 U                                 | 1 U                     | 1 U                                  |

Notes:

Results are reported in micrograms per liter (µg/L)

U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".

J - Estimated. Concentration between RL and Method Detection Limit (MDL)

| TABLE 2.6-4<br>Surface Water Analytical Data Summary - Volatile Organic Compounds (VOCs) - 2024<br>Former York Naval Ordnance Plant - York, PA |                         |                                      |                         |                                      |                        |                        |                        |                        |                        |                        |                        |                        |                        |                         |                         |                         |                        |                        |                        |                        |                        |                        |                        |                        |                        |                         |                         |                         |        |
|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------------|-------------------------|--------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|--------|
| Location/Identification<br>Sample Date                                                                                                         | COD-SW-17<br>11/25/2024 | COD-SW-17<br>Duplicate<br>11/25/2024 | COD-SW-17<br>12/18/2024 | COD-SW-17<br>Duplicate<br>12/18/2024 | COD-SW-26<br>1/29/2024 | COD-SW-26<br>2/23/2024 | COD-SW-26<br>3/20/2024 | COD-SW-26<br>4/29/2024 | COD-SW-26<br>5/30/2024 | COD-SW-26<br>6/26/2024 | COD-SW-26<br>7/25/2024 | COD-SW-26<br>8/20/2024 | COD-SW-26<br>9/23/2024 | COD-SW-26<br>10/18/2024 | COD-SW-26<br>11/25/2024 | COD-SW-26<br>12/18/2024 | COD-SW-27<br>1/29/2024 | COD-SW-27<br>2/23/2024 | COD-SW-27<br>3/20/2024 | COD-SW-27<br>4/29/2024 | COD-SW-27<br>5/30/2024 | COD-SW-27<br>6/26/2024 | COD-SW-27<br>7/25/2024 | COD-SW-27<br>8/20/2024 | COD-SW-27<br>9/23/2024 | COD-SW-27<br>10/18/2024 | COD-SW-27<br>11/25/2024 | COD-SW-27<br>12/18/2024 |        |
| Volatile Organic Compound                                                                                                                      |                         |                                      |                         |                                      |                        |                        |                        |                        |                        |                        |                        |                        |                        |                         |                         |                         |                        |                        |                        |                        |                        |                        |                        |                        |                        |                         |                         |                         |        |
| 1,1,1,2-Tetrachloroethane                                                                                                                      | 0.5 U                   | 0.5 U                                | 0.5 U                   | 0.5 U                                | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   |        |
| 1,1,1-Trichloroethane                                                                                                                          | 14                      | 13                                   | 15                      | 16                                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   |        |
| 1,1,2,2-Tetrachloroethane                                                                                                                      | 0.5 U                   | 0.5 U                                | 0.5 U                   | 0.5 U                                | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   |        |
| 1,1,2-Trichloroethane                                                                                                                          | 0.5 U                   | 0.5 U                                | 0.5 U                   | 0.5 U                                | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   |        |
| 1,1-Dichloroethane                                                                                                                             | 2.3                     | 2.1                                  | 2.6                     | 2.7                                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   |        |
| 1,1-Dichloroethene                                                                                                                             | 1.1                     | 1.1                                  | 1.1                     | 1.2                                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.12 J                 | 0.5 U                  | 0.5 U                  | 0.12 J                 | 0.5 U                  | 0.5 U                  | 0.15 J                  | 0.12 J                  | 0.13 J                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   |        |
| 1,2-Dibromoethane                                                                                                                              | 0.5 U                   | 0.5 U                                | 0.5 U                   | 0.5 U                                | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   |        |
| 1,2-Dichloroethane                                                                                                                             | 0.5 U                   | 0.5 U                                | 0.5 U                   | 0.5 U                                | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   |        |
| 1,2-Dichloropropane                                                                                                                            | 0.5 U                   | 0.5 U                                | 0.5 U                   | 0.5 U                                | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   |        |
| 2-Butanone                                                                                                                                     | 5 U                     | 5 U                                  | 5 U                     | 5 U                                  | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                     | 5 U                     | 5 U                     | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                     | 5 U                     | 5 U                     |        |
| 2-Hexanone                                                                                                                                     | 5 U                     | 5 U                                  | 5 U                     | 5 U                                  | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                     | 5 U                     | 5 U                     | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                     | 5 U                     | 5 U                     |        |
| 4-Methyl-2-Pentanone                                                                                                                           | 5 U                     | 5 U                                  | 5 U                     | 5 U                                  | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                     | 5 U                     | 5 U                     | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                     | 5 U                     | 5 U                     |        |
| Acetone                                                                                                                                        | 5 U                     | 5 U                                  | 5 U                     | 5 U                                  | 1.1 J                  | 5 U                    | 5 U                    | 1.5 J                  | 5 U                    | 3 J                    | 5 U                    | 5 U                    | 5 U                    | 5 U                     | 5 U                     | 5 U                     | 1 J                    | 2.2 J                  | 1.3 J                  | 3 J                    | 5 U                    | 3.3 J                  | 1.8 J                  | 1.5 J                  | 5 U                    | 2.4 J                   | 10                      | 2.8 J                   |        |
| Benzene                                                                                                                                        | 0.5 U                   | 0.5 U                                | 0.5 U                   | 0.5 U                                | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   |        |
| Bromochloromethane                                                                                                                             | 0.5 U                   | 0.5 U                                | 0.5 U                   | 0.5 U                                | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   |        |
| Bromodichloromethane                                                                                                                           | 0.5 U                   | 0.5 U                                | 0.5 U                   | 0.5 U                                | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   |        |
| Bromoform                                                                                                                                      | 1 U                     | 1 U                                  | 1 U                     | 1 U                                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     |        |
| Bromomethane                                                                                                                                   | 0.5 U                   | 0.5 U                                | 0.5 U                   | 0.5 U                                | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   |        |
| Carbon Disulfide                                                                                                                               | 1 U                     | 1 U                                  | 1 U                     | 1 U                                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     |        |
| Carbon Tetrachloride                                                                                                                           | 0.5 U                   | 0.5 U                                | 0.5 U                   | 0.5 U                                | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   |        |
| Chlorobenzene                                                                                                                                  | 0.5 U                   | 0.5 U                                | 0.5 U                   | 0.5 U                                | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   |        |
| Chlorodibromomethane                                                                                                                           | 0.5 U                   | 0.5 U                                | 0.5 U                   | 0.5 U                                | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   |        |
| Chloroethane                                                                                                                                   | 0.5 U                   | 0.5 U                                | 0.5 U                   | 0.5 U                                | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 UJ                 | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 UJ                 | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   |        |
| Chloroform                                                                                                                                     | 0.18 J                  | 0.16 J                               | 0.18 J                  | 0.18 J                               | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.48 J                 | 0.15 J                 | 0.15 J                 | 0.62                   | 0.49 J                 | 0.63                   | 0.84                    | 0.78                    | 0.82                    | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.095 J                | 0.12 J                 | 0.11 J                 | 0.15 J                  | 0.27 J                  | 0.3 J                   | 0.24 J |
| Chloromethane                                                                                                                                  | 0.5 UJ                  | 0.5 UJ                               | 0.5 U                   | 0.5 U                                | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 UJ                 | 0.5 U                  | 0.5 UJ                 | 0.5 U                   | 0.5 UJ                  | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.1 J                  | 0.11 J                 | 0.5 U                  | 0.5 U                  | 0.5 UJ                 | 0.5 U                  | 0.5 UJ                 | 0.12 J                  | 0.5 UJ                  | 0.15 J                  |        |
| cis-1,2-Dichloroethene                                                                                                                         | 3.4                     | 3.1                                  | 3.8                     | 4.1                                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.14 J                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.082 J                | 0.13 J                 | 0.5 U                  | 0.14 J                 | 0.1 J                  | 0.096 J                | 0.094 J                | 0.15 J                  | 0.17 J                  | 0.13 J                  |        |
| cis-1,3-Dichloropropene                                                                                                                        | 0.5 U                   | 0.5 U                                | 0.5 U                   | 0.5 U                                | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   |        |
| Ethylbenzene                                                                                                                                   | 0.5 U                   | 0.5 U                                | 0.5 U                   | 0.5 U                                | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   |        |
| Methyl tert-butyl ether                                                                                                                        | 0.5 U                   | 0.5 U                                | 0.5 U                   | 0.5 U                                | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   |        |
| Methylene chloride                                                                                                                             | 0.5 U                   | 0.5 U                                | 0.5 U                   | 0.5 U                                | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   |        |
| Styrene                                                                                                                                        | 0.5 U                   | 0.5 U                                | 0.5 U                   | 0.5 U                                | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   |        |
| Tetrachloroethene                                                                                                                              | 180 J                   | 180 J                                | 200                     | 200                                  | 0.5 U                  | 0.55                   | 0.89                   | 3.5                    | 0.63                   | 0.48 J                 | 3.7                    | 2.7                    | 3.4                    | 4                       | 3.9                     | 3.8                     | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.2 J                  | 0.23 J                  | 0.23 J                  | 0.5 U                   |        |
| Toluene                                                                                                                                        | 0.5 U                   | 0.5 U                                | 0.5 U                   | 0.5 U                                | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   |        |
| trans-1,2-Dichloroethene                                                                                                                       | 0.5 U                   | 0.5 U                                | 0.5 U                   | 0.5 U                                | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   |        |
| trans-1,3-Dichloropropene                                                                                                                      | 0.5 U                   | 0.5 U                                | 0.5 U                   | 0.5 U                                | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   |        |
| Trichloroethene                                                                                                                                | 7                       | 6.6                                  | 7.2                     | 7.6                                  | 0.5 U                  | 0.5 U                  | 0.097 J                | 0.16 J                 | 0.11 J                 | 0.17 J                 | 0.16 J                 | 0.11 J                 | 0.13 J                 | 0.17 J                  | 0.15 J                  | 0.17 J                  | 0.5 U                  | 0.5 U                  | 0.096 J                | 0.12 J                 | 0.11 J                 | 0.17 J                 | 0.15 J                 | 0.13 J                 | 0.15 J                 | 0.18 J                  | 0.26 J                  | 0.27 J                  |        |
| Vinyl Chloride                                                                                                                                 | 0.5 U                   | 0.5 U                                | 0.5 U                   | 0.5 U                                | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 UJ                 | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 UJ                 | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   |        |
| Xylenes (Total)                                                                                                                                | 1 U                     | 1 U                                  | 1 U                     | 1 U                                  | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     |        |

Notes:

Results are reported in micrograms per liter (µg/L)

U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".

J - Estimated. Concentration between RL and Method Detection Limit (MDL)

| TABLE 2.6-4<br>Surface Water Analytical Data Summary - Volatile Organic Compounds (VOCs) - 2024<br>Former York Naval Ordnance Plant - York, PA |                        |                        |                        |                        |                        |                        |                        |                        |                        |                         |                         |                         |                        |                        |                        |                        |                        |                        |                        |                        |                        |                         |                         |                         |                       |                       |                       |                       |     |
|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----|
| Location/Identification<br>Sample Date                                                                                                         | COD-SW-28<br>1/29/2024 | COD-SW-28<br>2/23/2024 | COD-SW-28<br>3/20/2024 | COD-SW-28<br>4/29/2024 | COD-SW-28<br>5/30/2024 | COD-SW-28<br>6/26/2024 | COD-SW-28<br>7/25/2024 | COD-SW-28<br>8/20/2024 | COD-SW-28<br>9/23/2024 | COD-SW-28<br>10/18/2024 | COD-SW-28<br>11/25/2024 | COD-SW-28<br>12/18/2024 | COD-SW-29<br>1/29/2024 | COD-SW-29<br>2/23/2024 | COD-SW-29<br>3/20/2024 | COD-SW-29<br>4/29/2024 | COD-SW-29<br>5/30/2024 | COD-SW-29<br>6/26/2024 | COD-SW-29<br>7/25/2024 | COD-SW-29<br>8/20/2024 | COD-SW-29<br>9/23/2024 | COD-SW-29<br>10/18/2024 | COD-SW-29<br>11/25/2024 | COD-SW-29<br>12/18/2024 | COD-SW-6<br>1/29/2024 | COD-SW-6<br>2/23/2024 | COD-SW-6<br>3/20/2024 | COD-SW-6<br>4/29/2024 |     |
| Volatile Organic Compound                                                                                                                      |                        |                        |                        |                        |                        |                        |                        |                        |                        |                         |                         |                         |                        |                        |                        |                        |                        |                        |                        |                        |                        |                         |                         |                         |                       |                       |                       |                       |     |
| 1,1,1,2-Tetrachloroethane                                                                                                                      | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 |     |
| 1,1,1-Trichloroethane                                                                                                                          | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 |     |
| 1,1,2,2-Tetrachloroethane                                                                                                                      | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 |     |
| 1,1,2-Trichloroethane                                                                                                                          | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 |     |
| 1,1-Dichloroethane                                                                                                                             | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 |     |
| 1,1-Dichloroethene                                                                                                                             | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 |     |
| 1,2-Dibromoethane                                                                                                                              | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 |     |
| 1,2-Dichloroethane                                                                                                                             | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 |     |
| 1,2-Dichloropropane                                                                                                                            | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 |     |
| 2-Butanone                                                                                                                                     | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                     | 5 U                     | 5 U                     | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                     | 5 U                     | 5 U                     | 5 U                   | 5 U                   | 5 U                   | 5 U                   |     |
| 2-Hexanone                                                                                                                                     | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                     | 5 U                     | 5 U                     | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                     | 5 U                     | 5 U                     | 5 U                   | 5 U                   | 5 U                   | 5 U                   |     |
| 4-Methyl-2-Pentanone                                                                                                                           | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                     | 5 U                     | 5 U                     | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                    | 5 U                     | 5 U                     | 5 U                     | 5 U                   | 5 U                   | 5 U                   | 5 U                   |     |
| Acetone                                                                                                                                        | 1 J                    | 5 U                    | 1.9 J                  | 2.3 J                  | 5 U                    | 4.3 J                  | 3.6 J                  | 1.9 J                  | 5 U                    | 5 U                     | 9.4                     | 2.3 J                   | 2.6 J                  | 1.4 J                  | 5 U                    | 1.8 J                  | 5 U                    | 2.2 J                  | 1.9 J                  | 5 U                    | 5 U                    | 5 U                     | 5 U                     | 19                      | 1.7 J                 | 5 U                   | 1.7 J                 | 1.2 J                 | 5 U |
| Benzene                                                                                                                                        | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 |     |
| Bromochloromethane                                                                                                                             | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 |     |
| Bromodichloromethane                                                                                                                           | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 |     |
| Bromoform                                                                                                                                      | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                   | 1 U                   | 1 U                   | 1 U                   |     |
| Bromomethane                                                                                                                                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 |     |
| Carbon Disulfide                                                                                                                               | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                    | 1 U                     | 1 U                     | 1 U                     | 1 U                   | 1 U                   | 1 U                   | 1 U                   |     |
| Carbon Tetrachloride                                                                                                                           | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 |     |
| Chlorobenzene                                                                                                                                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 |     |
| Chlorodibromomethane                                                                                                                           | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 |     |
| Chloroethane                                                                                                                                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 |     |
| Chloroform                                                                                                                                     | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.098 J                | 0.5 U                  | 0.13 J                 | 0.11 J                 | 0.5 U                  | 0.12 J                 | 0.12 J                  | 0.12 J                  | 0.16 J                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.097 J                | 0.094 J                | 0.5 U                  | 0.12 J                  | 0.12 J                  | 0.094 J                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 |     |
| Chloromethane                                                                                                                                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.11 J                  | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.12 J                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.11 J                  | 0.5 U                   | 0.15 J                | 0.5 U                 | 0.5 U                 | 0.5 U                 |     |
| cis-1,2-Dichloroethene                                                                                                                         | 0.5 U                  | 0.081 J                | 0.5 U                  | 0.094 J                | 0.5 U                  | 0.13 J                 | 0.1 J                  | 0.099 J                | 0.5 U                  | 0.15 J                  | 0.15 J                  | 0.15 J                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.18 J                 | 0.087 J                | 0.16 J                 | 0.16 J                 | 0.15 J                 | 0.086 J                | 0.2 J                   | 0.2 J                   | 0.15 J                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 |     |
| cis-1,3-Dichloropropene                                                                                                                        | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                   | 0.5 U                   | 0.5 U                   | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                  |                        |                        |                        |                        |                         |                         |                         |                       |                       |                       |                       |     |

Notes:  
Results are reported in micrograms per liter (µg/L)  
U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".  
J - Estimated. Concentration between RL and Method Detection Limit (MDL)

| TABLE 2.6-4<br>Surface Water Analytical Data Summary - Volatile Organic Compounds (VOCs) - 2024<br>Former York Naval Ordnance Plant - York, PA |                       |                       |                       |                       |                       |                        |                        |                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                        |                        |                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                        |        |
|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|--------|
| Location/Identification<br>Sample Date                                                                                                         | COD-SW-6<br>5/30/2024 | COD-SW-6<br>6/26/2024 | COD-SW-6<br>7/25/2024 | COD-SW-6<br>8/20/2024 | COD-SW-6<br>9/23/2024 | COD-SW-6<br>10/18/2024 | COD-SW-6<br>11/25/2024 | COD-SW-6<br>12/18/2024 | COD-SW-7<br>1/29/2024 | COD-SW-7<br>2/23/2024 | COD-SW-7<br>3/20/2024 | COD-SW-7<br>4/29/2024 | COD-SW-7<br>5/30/2024 | COD-SW-7<br>6/26/2024 | COD-SW-7<br>7/25/2024 | COD-SW-7<br>8/20/2024 | COD-SW-7<br>9/23/2024 | COD-SW-7<br>10/18/2024 | COD-SW-7<br>11/25/2024 | COD-SW-7<br>12/18/2024 | COD-SW-8<br>1/29/2024 | COD-SW-8<br>2/23/2024 | COD-SW-8<br>3/20/2024 | COD-SW-8<br>4/29/2024 | COD-SW-8<br>5/30/2024 | COD-SW-8<br>6/26/2024 | COD-SW-8<br>7/25/2024 | COD-SW-8<br>8/20/2024 | COD-SW-8<br>9/23/2024 | COD-SW-8<br>10/18/2024 |        |
| Volatile Organic Compound                                                                                                                      |                       |                       |                       |                       |                       |                        |                        |                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                        |                        |                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                        |        |
| 1,1,1,2-Tetrachloroethane                                                                                                                      | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 |                        |        |
| 1,1,1-Trichloroethane                                                                                                                          | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.1 J                  |        |
| 1,1,2,2-Tetrachloroethane                                                                                                                      | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  |        |
| 1,1,2-Trichloroethane                                                                                                                          | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  |        |
| 1,1-Dichloroethane                                                                                                                             | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  |        |
| 1,1-Dichloroethene                                                                                                                             | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  |        |
| 1,2-Dibromoethane                                                                                                                              | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  |        |
| 1,2-Dichloroethane                                                                                                                             | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  |        |
| 1,2-Dichloropropane                                                                                                                            | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  |        |
| 2-Butanone                                                                                                                                     | 5 U                   | 5 U                   | 5 U                   | 5 U                   | 5 U                   | 5 U                    | 5 U                    | 5 U                    | 5 U                   | 5 U                   | 5 U                   | 5 UJ                  | 5 U                   | 5 U                   | 5 U                   | 5 U                   | 5 U                   | 5 U                    | 5 U                    | 5 U                    | 5 U                   | 5 U                   | 5 U                   | 5 UJ                  | 5 U                   | 5 U                   | 5 U                   | 5 U                   | 5 U                   | 5 U                    |        |
| 2-Hexanone                                                                                                                                     | 5 U                   | 5 U                   | 5 U                   | 5 U                   | 5 U                   | 5 U                    | 5 U                    | 5 U                    | 5 U                   | 5 U                   | 5 U                   | 5 UJ                  | 5 U                   | 5 U                   | 5 U                   | 5 U                   | 5 U                   | 5 U                    | 5 U                    | 5 U                    | 5 U                   | 5 U                   | 5 U                   | 5 UJ                  | 5 U                   | 5 U                   | 5 U                   | 5 U                   | 5 U                   | 5 U                    |        |
| 4-Methyl-2-Pentanone                                                                                                                           | 5 U                   | 5 U                   | 5 U                   | 5 U                   | 5 U                   | 5 U                    | 5 U                    | 5 U                    | 5 U                   | 5 U                   | 5 U                   | 5 UJ                  | 5 U                   | 5 U                   | 5 U                   | 5 U                   | 5 U                   | 5 U                    | 5 U                    | 5 U                    | 5 U                   | 5 U                   | 5 U                   | 5 UJ                  | 5 U                   | 5 U                   | 5 U                   | 5 U                   | 5 U                   | 5 U                    |        |
| Acetone                                                                                                                                        | 5 U                   | 2.2 J                 | 1.7 J                 | 5 U                   | 5 U                   | 5 U                    | 5.4 J                  | 5 U                    | 1.1 J                 | 1.5 J                 | 1.6 J                 | 5 U                   | 5 U                   | 2.5 J                 | 1.8 J                 | 5 U                   | 5 U                   | 1.7 J                  | 14 J                   | 1.9 J                  | 2 J                   | 1.4 J                 | 1.7 J                 | 1.6 J                 | 5 U                   | 2.3 J                 | 1.6 J                 | 5 U                   | 5 U                   | 2 J                    |        |
| Benzene                                                                                                                                        | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  |        |
| Bromochloromethane                                                                                                                             | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  |        |
| Bromodichloromethane                                                                                                                           | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  |        |
| Bromoform                                                                                                                                      | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                    | 1 U                    | 1 U                    | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                    | 1 U                    | 1 U                    | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                    |        |
| Bromomethane                                                                                                                                   | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 UJ                | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 UJ                | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  |        |
| Carbon Disulfide                                                                                                                               | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                    | 1 U                    | 1 U                    | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                    | 0.16 J                 | 1 U                    | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                    |        |
| Carbon Tetrachloride                                                                                                                           | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  |        |
| Chlorobenzene                                                                                                                                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  |        |
| Chlorodibromomethane                                                                                                                           | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  |        |
| Chloroethane                                                                                                                                   | 0.5 U                 | 0.5 U                 | 0.5 UJ                | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 UJ                | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 UJ                | 0.5 U                 | 0.5 U                 | 0.5 U                  |        |
| Chloroform                                                                                                                                     | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.11 J                 | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.1 J                 | 0.14 J                | 0.12 J                | 0.5 U                 | 0.15 J                 | 0.18 J                 | 0.14 J                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.094 J               | 0.5 U                 | 0.5 U                  | 0.14 J |
| Chloromethane                                                                                                                                  | 0.5 U                 | 0.5 U                 | 0.5 UJ                | 0.5 U                 | 0.5 UJ                | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.19 J                | 0.11 J                | 0.5 U                 | 0.5 U                 | 0.5 UJ                | 0.5 U                 | 0.5 UJ                | 0.5 U                  | 0.5 U                  | 0.11 J                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 UJ                | 0.5 U                 | 0.5 U                 | 0.5 UJ                | 0.5 U                 | 0.5 UJ                | 0.5 U                  |        |
| cis-1,2-Dichloroethene                                                                                                                         | 0.5 U                 | 0.099 J               | 0.086 J               | 0.5 U                 | 0.5 U                 | 0.14 J                 | 0.095 J                | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.096 J               | 0.5 U                 | 0.16 J                | 0.1 J                 | 0.12 J                | 0.1 J                 | 0.19 J                 | 0.22 J                 | 0.17 J                 | 0.5 U                 | 0.5 U                 | 0.087 J               | 0.11 J                | 0.099 J               | 0.18 J                | 0.17 J                | 0.16 J                | 0.1 J                 | 0.23 J                 |        |
| cis-1,3-Dichloropropene                                                                                                                        | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  |        |
| Ethylbenzene                                                                                                                                   | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  |        |
| Methyl tert-butyl ether                                                                                                                        | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  |        |
| Methylene chloride                                                                                                                             | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  |        |
| Styrene                                                                                                                                        | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  |        |
| Tetrachloroethene                                                                                                                              | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.2 J                 | 0.44 J                | 0.73                  | 0.51                  | 0.77                  | 0.94                  | 0.94                  | 1.2                   | 0.68                  | 1.6                    |        |
| Toluene                                                                                                                                        | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.12 J                | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.083 J               | 0.5 U                 | 0.5 U                  |        |
| trans-1,2-Dichloroethene                                                                                                                       | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 |                       |                       |                       |                       |                       |                       |                       |                        |        |

Notes:  
Results are reported in micrograms per liter (µg/L)  
U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".  
J - Estimated. Concentration between RL and Method Detection Limit (MDL)



TABLE 2.6-4  
Surface Water Analytical Data Summary - Volatile Organic Compounds (VOCs) - 2024  
Former York Naval Ordnance Plant - York, PA

| Location/Identification<br>Sample Date | COD-SW-8<br>11/25/2024 | COD-SW-8<br>12/18/2024 | COD-SW-9<br>1/29/2024 | COD-SW-9<br>2/23/2024 | COD-SW-9<br>3/20/2024 | COD-SW-9<br>4/29/2024 | COD-SW-9<br>5/30/2024 | COD-SW-9<br>6/26/2024 | COD-SW-9<br>7/25/2024 | COD-SW-9<br>8/20/2024 | COD-SW-9<br>9/23/2024 | COD-SW-9<br>10/18/2024 | COD-SW-9<br>11/25/2024 | COD-SW-9<br>12/18/2024 |
|----------------------------------------|------------------------|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|------------------------|
| Parameter                              |                        |                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                        |                        |                        |
| Volatile Organic Compound              |                        |                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                        |                        |                        |
| 1,1,1,2-Tetrachloroethane              | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| 1,1,1-Trichloroethane                  | 0.14 J                 | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| 1,1,2,2-Tetrachloroethane              | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| 1,1,2-Trichloroethane                  | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| 1,1-Dichloroethane                     | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| 1,1-Dichloroethene                     | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| 1,2-Dibromoethane                      | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| 1,2-Dichloroethane                     | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| 1,2-Dichloropropane                    | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| 2-Butanone                             | 5 U                    | 5 U                    | 5 U                   | 5 U                   | 5 U                   | 5 UJ                  | 5 U                   | 5 U                   | 5 U                   | 5 U                   | 5 U                   | 5 U                    | 5 U                    | 5 U                    |
| 2-Hexanone                             | 5 U                    | 5 U                    | 5 U                   | 5 U                   | 5 U                   | 5 UJ                  | 5 U                   | 5 U                   | 5 U                   | 5 U                   | 5 U                   | 5 U                    | 5 U                    | 5 U                    |
| 4-Methyl-2-Pentanone                   | 5 U                    | 5 U                    | 5 U                   | 5 U                   | 5 U                   | 5 UJ                  | 5 U                   | 5 U                   | 5 U                   | 5 U                   | 5 U                   | 5 U                    | 5 U                    | 5 U                    |
| Acetone                                | 15 J                   | 5 U                    | 1.1 J                 | 1.4 J                 | 1.7 J                 | 2.6 J                 | 5 U                   | 4.9 J                 | 3.3 J                 | 2.5 J                 | 5 U                   | 2.1 J                  | 7.8 J                  | 2.4 J                  |
| Benzene                                | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| Bromochloromethane                     | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| Bromodichloromethane                   | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| Bromoform                              | 1 U                    | 1 U                    | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                    | 1 U                    | 1 U                    |
| Bromomethane                           | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 UJ                | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| Carbon Disulfide                       | 0.14 J                 | 1 U                    | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                    | 0.11 J                 | 1 U                    |
| Carbon Tetrachloride                   | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| Chlorobenzene                          | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| Chlorodibromomethane                   | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| Chloroethane                           | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 UJ                | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| Chloroform                             | 0.13 J                 | 0.098 J                | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.096 J               | 0.5 U                 | 0.5 U                 | 0.093 J               | 0.5 U                 | 0.1 J                 | 0.13 J                 | 0.14 J                 | 0.17 J                 |
| Chloromethane                          | 0.5 U                  | 0.13 J                 | 0.5 U                 | 0.5 U                 | 0.13 J                | 0.5 UJ                | 0.5 U                 | 0.5 U                 | 0.5 UJ                | 0.5 U                 | 0.5 UJ                | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| cis-1,2-Dichloroethene                 | 0.23 J                 | 0.18 J                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.091 J               | 0.082 J               | 0.5 U                 | 0.5 U                 | 0.13 J                 | 0.17 J                 | 0.13 J                 |
| cis-1,3-Dichloropropene                | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| Ethylbenzene                           | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| Methyl tert-butyl ether                | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| Methylene chloride                     | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| Styrene                                | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| Tetrachloroethene                      | 1.7                    | 1.4                    | 0.5 U                 | 0.5 U                 | 0.27 J                | 0.32 J                | 0.21 J                | 0.25 J                | 0.3 J                 | 0.26 J                | 0.21 J                | 0.28 J                 | 0.25 J                 | 0.31 J                 |
| Toluene                                | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.1 J                 | 0.11 J                | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| trans-1,2-Dichloroethene               | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| trans-1,3-Dichloropropene              | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| Trichloroethene                        | 0.41 J                 | 0.32 J                 | 0.5 U                 | 0.5 U                 | 0.093 J               | 0.5 U                 | 0.084 J               | 0.11 J                | 0.09 J                | 0.084 J               | 0.5 U                 | 0.17 J                 | 0.24 J                 | 0.2 J                  |
| Vinyl Chloride                         | 0.5 U                  | 0.5 U                  | 0.5 U                 | 0.5 U                 | 0.5 U                 | 0.5 UJ                | 0.5 U                 | 0.5 U                 | 0.5 UJ                | 0.5 U                 | 0.5 U                 | 0.5 U                  | 0.5 U                  | 0.5 U                  |
| Xylenes (Total)                        | 1 U                    | 1 U                    | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                   | 1 U                    | 1 U                    | 1 U                    |

Notes:  
Results are reported in micrograms per liter (µg/L)  
U - Not Detected. Results are shown as the laboratory Reporting Limit (RL) followed by "U".  
J - Estimated. Concentration between RL and Method Detection Limit (MDL)



| TABLE 2.6-5<br>Monthly Surface Water Sampling Results - 2024<br>Former York Naval Ordnance Plant - York, PA |             |                                                                     |       |          |       |                                                                     |                |                    |              |                |                |                    |              |                 |               |                  |                |
|-------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------|-------|----------|-------|---------------------------------------------------------------------|----------------|--------------------|--------------|----------------|----------------|--------------------|--------------|-----------------|---------------|------------------|----------------|
| Sample Location                                                                                             | Sample Date | Constituent of Concern Result in Micrograms Per Liter (µg/L)<br>(1) |       |          |       | PADEP Surface Water Quality Criteria in Micrograms Per Liter (µg/L) |                |                    |              |                |                |                    |              |                 |               |                  |                |
|                                                                                                             |             |                                                                     |       |          |       | Fish and Aquatic Life                                               |                |                    |              |                |                |                    |              | Human Health    |               |                  |                |
|                                                                                                             |             | TCE                                                                 | PCE   | cis12DCE | VC    | AFC<br>TCE=2,300                                                    | AFC<br>PCE=700 | AFC<br>cis12DCE=NE | AFC<br>VC=NE | CFC<br>TCE=450 | CFC<br>PCE=140 | CFC<br>cis12DCE=NE | CFC<br>VC=NE | CRL<br>TCE=0.60 | CRL<br>PCE=10 | H<br>cis12DCE=12 | CRL<br>VC=0.02 |
| COD-SW-26                                                                                                   | 01/29/24    | 0.5U                                                                | 0.5U  | 0.5U     | 0.5U  | X                                                                   | X              | X                  | X            | N/A            | N/A            | N/A                | N/A          | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 02/23/24    | 0.5U                                                                | 0.55  | 0.5U     | 0.5U  | X                                                                   | X              | X                  | X            | N/A            | N/A            | N/A                | N/A          | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 03/20/24    | 0.097J                                                              | 0.89  | 0.5U     | 0.5U  | X                                                                   | X              | X                  | X            | N/A            | N/A            | N/A                | N/A          | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 04/29/24    | 0.16J                                                               | 3.5   | 0.5U     | 0.5U  | X                                                                   | X              | X                  | X            | N/A            | N/A            | N/A                | N/A          | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 05/30/24    | 0.11J                                                               | 0.63  | 0.5U     | 0.5U  | X                                                                   | X              | X                  | X            | N/A            | N/A            | N/A                | N/A          | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 06/26/24    | 0.17J                                                               | 0.48J | 0.14J    | 0.5U  | X                                                                   | X              | X                  | X            | N/A            | N/A            | N/A                | N/A          | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 07/25/24    | 0.16J                                                               | 3.7   | 0.5U     | 0.5UJ | X                                                                   | X              | X                  | X            | N/A            | N/A            | N/A                | N/A          | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 08/20/24    | 0.11J                                                               | 2.7   | 0.5U     | 0.5U  | X                                                                   | X              | X                  | X            | N/A            | N/A            | N/A                | N/A          | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 09/23/24    | 0.13J                                                               | 3.4   | 0.5U     | 0.5U  | X                                                                   | X              | X                  | X            | N/A            | N/A            | N/A                | N/A          | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 10/18/24    | 0.17J                                                               | 4.0   | 0.098J   | 0.5U  | X                                                                   | X              | X                  | X            | N/A            | N/A            | N/A                | N/A          | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 11/25/24    | 0.15J                                                               | 3.9   | 0.5U     | 0.5U  | X                                                                   | X              | X                  | X            | N/A            | N/A            | N/A                | N/A          | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 12/18/24    | 0.17J                                                               | 3.8   | 0.5U     | 0.5U  | X                                                                   | X              | X                  | X            | N/A            | N/A            | N/A                | N/A          | N/A             | N/A           | N/A              | N/A            |
| COD-SW-6                                                                                                    | 01/29/24    | 0.5U                                                                | 0.5U  | 0.5U     | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | X               | X             | X                | X              |
|                                                                                                             | 02/23/24    | 0.5U                                                                | 0.5U  | 0.5U     | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | X               | X             | X                | X              |
|                                                                                                             | 03/20/24    | 0.5U                                                                | 0.5U  | 0.5U     | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | X               | X             | X                | X              |
|                                                                                                             | 04/29/24    | 0.5U                                                                | 0.5U  | 0.5U     | 0.5UJ | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | X               | X             | X                | X              |
|                                                                                                             | 05/30/24    | 0.5U                                                                | 0.5U  | 0.5U     | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | X               | X             | X                | X              |
|                                                                                                             | 06/26/24    | 0.11J                                                               | 0.5U  | 0.099J   | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | X               | X             | X                | X              |
|                                                                                                             | 07/25/24    | 0.11J                                                               | 0.5U  | 0.086J   | 0.5UJ | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | X               | X             | X                | X              |
|                                                                                                             | 08/20/24    | 0.5U                                                                | 0.5U  | 0.5U     | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | X               | X             | X                | X              |
|                                                                                                             | 09/23/24    | 0.5U                                                                | 0.5U  | 0.5U     | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | X               | X             | X                | X              |
|                                                                                                             | 10/18/24    | 0.19J                                                               | 0.5U  | 0.14J    | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | X               | X             | X                | X              |
|                                                                                                             | 11/25/24    | 0.18J                                                               | 0.5U  | 0.095J   | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | X               | X             | X                | X              |
|                                                                                                             | 12/18/24    | 0.15J                                                               | 0.5U  | 0.5U     | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | X               | X             | X                | X              |
| COD-SW-7                                                                                                    | 01/29/24    | 0.5U                                                                | 0.5U  | 0.5U     | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | X               | X             | X                | X              |
|                                                                                                             | 02/23/24    | 0.5U                                                                | 0.5U  | 0.5U     | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | X               | X             | X                | X              |
|                                                                                                             | 03/20/24    | 0.085J                                                              | 0.5U  | 0.5U     | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | X               | X             | X                | X              |
|                                                                                                             | 04/29/24    | 0.13J                                                               | 0.5U  | 0.096J   | 0.5UJ | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | X               | X             | X                | X              |
|                                                                                                             | 05/30/24    | 0.11J                                                               | 0.5U  | 0.5U     | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | X               | X             | X                | X              |
|                                                                                                             | 06/26/24    | 0.19J                                                               | 0.5U  | 0.16J    | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | X               | X             | X                | X              |
|                                                                                                             | 07/25/24    | 0.14J                                                               | 0.5U  | 0.10J    | 0.5UJ | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | X               | X             | X                | X              |
|                                                                                                             | 08/20/24    | 0.17J                                                               | 0.5U  | 0.12J    | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | X               | X             | X                | X              |
|                                                                                                             | 09/23/24    | 0.18J                                                               | 0.5U  | 0.10J    | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | X               | X             | X                | X              |
|                                                                                                             | 10/18/24    | 0.26J                                                               | 0.5U  | 0.19J    | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | X               | X             | X                | X              |
|                                                                                                             | 11/25/24    | 0.42J                                                               | 0.5U  | 0.22J    | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | X               | X             | X                | X              |
|                                                                                                             | 12/18/24    | 0.37J                                                               | 0.5U  | 0.17J    | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | X               | X             | X                | X              |

| TABLE 2.6-5<br>Monthly Surface Water Sampling Results - 2024<br>Former York Naval Ordnance Plant - York, PA |             |                                                                     |       |          |       |                                                                     |                |                    |              |                |                |                    |              |                 |               |                  |                |
|-------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------|-------|----------|-------|---------------------------------------------------------------------|----------------|--------------------|--------------|----------------|----------------|--------------------|--------------|-----------------|---------------|------------------|----------------|
| Sample Location                                                                                             | Sample Date | Constituent of Concern Result in Micrograms Per Liter (µg/L)<br>(1) |       |          |       | PADEP Surface Water Quality Criteria in Micrograms Per Liter (µg/L) |                |                    |              |                |                |                    |              |                 |               |                  |                |
|                                                                                                             |             |                                                                     |       |          |       | Fish and Aquatic Life                                               |                |                    |              |                |                |                    |              | Human Health    |               |                  |                |
|                                                                                                             |             | TCE                                                                 | PCE   | cis12DCE | VC    | AFC<br>TCE=2,300                                                    | AFC<br>PCE=700 | AFC<br>cis12DCE=NE | AFC<br>VC=NE | CFC<br>TCE=450 | CFC<br>PCE=140 | CFC<br>cis12DCE=NE | CFC<br>VC=NE | CRL<br>TCE=0.60 | CRL<br>PCE=10 | H<br>cis12DCE=12 | CRL<br>VC=0.02 |
| COD-SW-17                                                                                                   | 01/29/24    | 2.9                                                                 | 42.0  | 5.0      | 0.5U  | X                                                                   | X              | X                  | X            | N/A            | N/A            | N/A                | N/A          | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 02/23/24    | 4.5                                                                 | 130   | 3.2      | 0.5U  | X                                                                   | X              | X                  | X            | N/A            | N/A            | N/A                | N/A          | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 03/20/24    | 4.6                                                                 | 120   | 4.8      | 0.5U  | X                                                                   | X              | X                  | X            | N/A            | N/A            | N/A                | N/A          | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 04/29/24    | 4.1                                                                 | 100   | 3.2      | 0.5U  | X                                                                   | X              | X                  | X            | N/A            | N/A            | N/A                | N/A          | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 05/30/24    | 1.8                                                                 | 67.0  | 1.7      | 0.5U  | X                                                                   | X              | X                  | X            | N/A            | N/A            | N/A                | N/A          | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 06/26/24    | 3.1                                                                 | 120   | 2.0      | 0.5U  | X                                                                   | X              | X                  | X            | N/A            | N/A            | N/A                | N/A          | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 07/25/24    | 6.4                                                                 | 140   | 3.2      | 0.5UJ | X                                                                   | X              | X                  | X            | N/A            | N/A            | N/A                | N/A          | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 08/20/24    | 4.2                                                                 | 120   | 2.5      | 0.5U  | X                                                                   | X              | X                  | X            | N/A            | N/A            | N/A                | N/A          | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 09/23/24    | 0.81                                                                | 21    | 0.47J    | 0.5U  | X                                                                   | X              | X                  | X            | N/A            | N/A            | N/A                | N/A          | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 10/18/24    | 4.5                                                                 | 130   | 2.5      | 0.5U  | X                                                                   | X              | X                  | X            | N/A            | N/A            | N/A                | N/A          | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 11/25/24    | 7.0                                                                 | 180J  | 3.4      | 0.5U  | X                                                                   | X              | X                  | X            | N/A            | N/A            | N/A                | N/A          | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 12/18/24    | 7.2                                                                 | 200   | 3.8      | 0.5U  | X                                                                   | X              | X                  | X            | N/A            | N/A            | N/A                | N/A          | N/A             | N/A           | N/A              | N/A            |
| COD-SW-16                                                                                                   | 01/29/24    | 0.5U                                                                | 0.34J | 0.5U     | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 02/23/24    | 0.5U                                                                | 0.65  | 0.5U     | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 03/20/24    | 0.11J                                                               | 1.6   | 0.095J   | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 04/29/24    | 0.14J                                                               | 1.5   | 0.13J    | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 05/30/24    | 0.13J                                                               | 1.4   | 0.5U     | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 06/26/24    | 0.21J                                                               | 2.2   | 0.20J    | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 07/25/24    | 0.27J                                                               | 2.1   | 0.20J    | 0.5UJ | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 08/20/24    | 0.23J                                                               | 2.4   | 0.20J    | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 09/23/24    | 0.19J                                                               | 1.8   | 0.13J    | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 10/18/24    | 0.31J                                                               | 2.1   | 0.25J    | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 11/25/24    | 0.37J                                                               | 2.7   | 0.22J    | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 12/18/24    | 0.35J                                                               | 1.1   | 0.18J    | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | N/A             | N/A           | N/A              | N/A            |
| COD-SW-27                                                                                                   | 01/29/24    | 0.5U                                                                | 0.5U  | 0.5U     | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 02/23/24    | 0.5U                                                                | 0.5U  | 0.5U     | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 03/20/24    | 0.096J                                                              | 0.5U  | 0.082J   | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 04/29/24    | 0.12J                                                               | 0.5U  | 0.13J    | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 05/30/24    | 0.11J                                                               | 0.5U  | 0.5U     | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 06/26/24    | 0.17J                                                               | 0.5U  | 0.14J    | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 07/25/24    | 0.15J                                                               | 0.5U  | 0.10J    | 0.5UJ | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 08/20/24    | 0.13J                                                               | 0.5U  | 0.096J   | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 09/23/24    | 0.15J                                                               | 0.20J | 0.094J   | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 10/18/24    | 0.18J                                                               | 0.23J | 0.15J    | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 11/25/24    | 0.26J                                                               | 0.23J | 0.17J    | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | N/A             | N/A           | N/A              | N/A            |
|                                                                                                             | 12/18/24    | 0.27J                                                               | 0.5U  | 0.13J    | 0.5U  | X                                                                   | X              | X                  | X            | X              | X              | X                  | X            | N/A             | N/A           | N/A              | N/A            |

| TABLE 2.6-5<br>Monthly Surface Water Sampling Results - 2024<br>Former York Naval Ordnance Plant - York, PA |             |                                                                     |       |          |       |                                                                     |         |             |       |         |         |             |       |              |        |             |         |
|-------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------|-------|----------|-------|---------------------------------------------------------------------|---------|-------------|-------|---------|---------|-------------|-------|--------------|--------|-------------|---------|
| Sample Location                                                                                             | Sample Date | Constituent of Concern Result in Micrograms Per Liter (µg/L)<br>(1) |       |          |       | PADEP Surface Water Quality Criteria in Micrograms Per Liter (µg/L) |         |             |       |         |         |             |       |              |        |             |         |
|                                                                                                             |             |                                                                     |       |          |       | Fish and Aquatic Life                                               |         |             |       |         |         |             |       | Human Health |        |             |         |
|                                                                                                             |             |                                                                     |       |          |       | AFC                                                                 | AFC     | AFC         | AFC   | CFC     | CFC     | CFC         | CFC   | CRL          | CRL    | H           | CRL     |
|                                                                                                             |             | TCE                                                                 | PCE   | cis12DCE | VC    | TCE=2,300                                                           | PCE=700 | cis12DCE=NE | VC=NE | TCE=450 | PCE=140 | cis12DCE=NE | VC=NE | TCE=0.60     | PCE=10 | cis12DCE=12 | VC=0.02 |
| COD-SW-15                                                                                                   | 01/29/24    | 0.58                                                                | 1.9   | 0.61     | 0.5U  | X                                                                   | X       | X           | X     | N/A     | N/A     | N/A         | N/A   | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 02/23/24    | 1.6                                                                 | 6.5   | 1.6      | 0.5U  | X                                                                   | X       | X           | X     | N/A     | N/A     | N/A         | N/A   | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 03/20/24    | 1.5                                                                 | 7.4   | 1.3      | 0.5U  | X                                                                   | X       | X           | X     | N/A     | N/A     | N/A         | N/A   | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 04/29/24    | 1.1                                                                 | 5.3   | 0.97     | 0.5U  | X                                                                   | X       | X           | X     | N/A     | N/A     | N/A         | N/A   | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 05/30/24    | 0.87                                                                | 4.4   | 0.66     | 0.5U  | X                                                                   | X       | X           | X     | N/A     | N/A     | N/A         | N/A   | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 06/26/24    | 0.97                                                                | 4.5   | 0.76     | 0.5U  | X                                                                   | X       | X           | X     | N/A     | N/A     | N/A         | N/A   | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 07/25/24    | 1.4                                                                 | 6.2   | 1.5      | 0.5UJ | X                                                                   | X       | X           | X     | N/A     | N/A     | N/A         | N/A   | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 08/20/24    | 0.95                                                                | 4.6   | 0.90     | 0.5U  | X                                                                   | X       | X           | X     | N/A     | N/A     | N/A         | N/A   | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 09/23/24    | 0.87                                                                | 3.9   | 0.64     | 0.5U  | X                                                                   | X       | X           | X     | N/A     | N/A     | N/A         | N/A   | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 10/18/24    | 0.85                                                                | 4.1J  | 0.76     | 0.5U  | X                                                                   | X       | X           | X     | N/A     | N/A     | N/A         | N/A   | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 11/25/24    | 1.2                                                                 | 5.6   | 1.4      | 0.5U  | X                                                                   | X       | X           | X     | N/A     | N/A     | N/A         | N/A   | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 12/18/24    | 1.6                                                                 | 6.8   | 2.0      | 0.5U  | X                                                                   | X       | X           | X     | N/A     | N/A     | N/A         | N/A   | N/A          | N/A    | N/A         | N/A     |
| COD-SW-13                                                                                                   | 01/29/24    | 0.5U                                                                | 0.24J | 0.5U     | 0.5U  | X                                                                   | X       | X           | X     | X       | X       | X           | X     | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 02/23/24    | 0.087J                                                              | 0.68  | 0.5U     | 0.5U  | X                                                                   | X       | X           | X     | X       | X       | X           | X     | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 03/20/24    | 0.099J                                                              | 0.84  | 0.5U     | 0.5U  | X                                                                   | X       | X           | X     | X       | X       | X           | X     | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 04/29/24    | 0.15J                                                               | 1.2   | 0.11J    | 0.5U  | X                                                                   | X       | X           | X     | X       | X       | X           | X     | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 05/30/24    | 0.15J                                                               | 1.4   | 0.11J    | 0.5UJ | X                                                                   | X       | X           | X     | X       | X       | X           | X     | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 06/26/24    | 0.20J                                                               | 1.8   | 0.21J    | 0.5U  | X                                                                   | X       | X           | X     | X       | X       | X           | X     | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 07/25/24    | 0.25J                                                               | 1.9   | 0.20J    | 0.5UJ | X                                                                   | X       | X           | X     | X       | X       | X           | X     | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 08/20/24    | 0.21J                                                               | 1.4   | 0.16J    | 0.5U  | X                                                                   | X       | X           | X     | X       | X       | X           | X     | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 09/23/24    | 0.18J                                                               | 1.1   | 0.11J    | 0.5U  | X                                                                   | X       | X           | X     | X       | X       | X           | X     | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 10/18/24    | 0.32J                                                               | 1.7   | 0.24J    | 0.5U  | X                                                                   | X       | X           | X     | X       | X       | X           | X     | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 11/25/24    | 0.39J                                                               | 2.2   | 0.28J    | 0.5U  | X                                                                   | X       | X           | X     | X       | X       | X           | X     | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 12/18/24    | 0.33J                                                               | 1.7   | 0.16J    | 0.5U  | X                                                                   | X       | X           | X     | X       | X       | X           | X     | N/A          | N/A    | N/A         | N/A     |
| COD-SW-28                                                                                                   | 01/29/24    | 0.5U                                                                | 0.5U  | 0.5U     | 0.5U  | X                                                                   | X       | X           | X     | X       | X       | X           | X     | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 02/23/24    | 0.083J                                                              | 0.23J | 0.081J   | 0.5U  | X                                                                   | X       | X           | X     | X       | X       | X           | X     | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 03/20/24    | 0.095J                                                              | 0.29J | 0.5U     | 0.5U  | X                                                                   | X       | X           | X     | X       | X       | X           | X     | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 04/29/24    | 0.12J                                                               | 0.33J | 0.094J   | 0.5U  | X                                                                   | X       | X           | X     | X       | X       | X           | X     | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 05/30/24    | 0.10J                                                               | 0.23J | 0.5U     | 0.5U  | X                                                                   | X       | X           | X     | X       | X       | X           | X     | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 06/26/24    | 0.16J                                                               | 0.38J | 0.13J    | 0.5U  | X                                                                   | X       | X           | X     | X       | X       | X           | X     | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 07/25/24    | 0.12J                                                               | 0.33J | 0.10J    | 0.5UJ | X                                                                   | X       | X           | X     | X       | X       | X           | X     | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 08/20/24    | 0.091J                                                              | 0.5U  | 0.099J   | 0.5U  | X                                                                   | X       | X           | X     | X       | X       | X           | X     | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 09/23/24    | 0.084J                                                              | 0.5U  | 0.5U     | 0.5U  | X                                                                   | X       | X           | X     | X       | X       | X           | X     | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 10/18/24    | 0.17J                                                               | 0.30J | 0.15J    | 0.5U  | X                                                                   | X       | X           | X     | X       | X       | X           | X     | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 11/25/24    | 0.22J                                                               | 0.26J | 0.15J    | 0.5U  | X                                                                   | X       | X           | X     | X       | X       | X           | X     | N/A          | N/A    | N/A         | N/A     |
|                                                                                                             | 12/18/24    | 0.23J                                                               | 0.32J | 0.15J    | 0.5U  | X                                                                   | X       | X           | X     | X       | X       | X           | X     | N/A          | N/A    | N/A         | N/A     |

| TABLE 2.6-5<br>Monthly Surface Water Sampling Results - 2024<br>Former York Naval Ordnance Plant - York, PA |             |                                                                     |       |           |         |                                                                     |       |         |         |             |       |          |        |              |         |     |     |
|-------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------|-------|-----------|---------|---------------------------------------------------------------------|-------|---------|---------|-------------|-------|----------|--------|--------------|---------|-----|-----|
| Sample Location                                                                                             | Sample Date | Constituent of Concern Result in Micrograms Per Liter (µg/L)<br>(1) |       |           |         | PADEP Surface Water Quality Criteria in Micrograms Per Liter (µg/L) |       |         |         |             |       |          |        |              |         |     |     |
|                                                                                                             |             |                                                                     |       |           |         | Fish and Aquatic Life                                               |       |         |         |             |       |          |        | Human Health |         |     |     |
|                                                                                                             |             | AFC                                                                 | AFC   | AFC       | AFC     | CFC                                                                 | CFC   | CFC     | CFC     | CRL         | CRL   | H        | CRL    |              |         |     |     |
| TCE                                                                                                         | PCE         | cis12DCE                                                            | VC    | TCE=2,300 | PCE=700 | cis12DCE=NE                                                         | VC=NE | TCE=450 | PCE=140 | cis12DCE=NE | VC=NE | TCE=0.60 | PCE=10 | cis12DCE=12  | VC=0.02 |     |     |
| COD-SW-8                                                                                                    | 01/29/24    | 0.5U                                                                | 0.20J | 0.5U      | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | N/A          | N/A     | N/A | N/A |
|                                                                                                             | 02/23/24    | 0.090J                                                              | 0.44J | 0.5U      | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | N/A          | N/A     | N/A | N/A |
|                                                                                                             | 03/20/24    | 0.10J                                                               | 0.73  | 0.87J     | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | N/A          | N/A     | N/A | N/A |
|                                                                                                             | 04/29/24    | 0.12J                                                               | 0.51  | 0.11J     | 0.5UJ   | X                                                                   | X     | X       | X       | X           | X     | X        | X      | N/A          | N/A     | N/A | N/A |
|                                                                                                             | 05/30/24    | 0.13J                                                               | 0.77  | 0.099J    | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | N/A          | N/A     | N/A | N/A |
|                                                                                                             | 06/26/24    | 0.20J                                                               | 0.94  | 0.18J     | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | N/A          | N/A     | N/A | N/A |
|                                                                                                             | 07/25/24    | 0.22J                                                               | 0.94  | 0.17J     | 0.5UJ   | X                                                                   | X     | X       | X       | X           | X     | X        | X      | N/A          | N/A     | N/A | N/A |
|                                                                                                             | 08/20/24    | 0.23J                                                               | 1.2   | 0.16J     | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | N/A          | N/A     | N/A | N/A |
|                                                                                                             | 09/23/24    | 0.15J                                                               | 0.68  | 0.10J     | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | N/A          | N/A     | N/A | N/A |
|                                                                                                             | 10/18/24    | 0.32J                                                               | 1.6   | 0.23J     | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | N/A          | N/A     | N/A | N/A |
|                                                                                                             | 11/25/24    | 0.41J                                                               | 1.7   | 0.23J     | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | N/A          | N/A     | N/A | N/A |
|                                                                                                             | 12/18/24    | 0.32J                                                               | 1.4   | 0.18J     | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | N/A          | N/A     | N/A | N/A |
| COD-SW-9                                                                                                    | 01/29/24    | 0.5U                                                                | 0.5U  | 0.5U      | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | N/A          | N/A     | N/A | N/A |
|                                                                                                             | 02/23/24    | 0.5U                                                                | 0.5U  | 0.5U      | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | N/A          | N/A     | N/A | N/A |
|                                                                                                             | 03/20/24    | 0.093J                                                              | 0.27J | 0.5U      | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | N/A          | N/A     | N/A | N/A |
|                                                                                                             | 04/29/24    | 0.5U                                                                | 0.32J | 0.5U      | 0.5UJ   | X                                                                   | X     | X       | X       | X           | X     | X        | X      | N/A          | N/A     | N/A | N/A |
|                                                                                                             | 05/30/24    | 0.084J                                                              | 0.21J | 0.5U      | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | N/A          | N/A     | N/A | N/A |
|                                                                                                             | 06/26/24    | 0.11J                                                               | 0.25J | 0.091J    | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | N/A          | N/A     | N/A | N/A |
|                                                                                                             | 07/25/24    | 0.090J                                                              | 0.30J | 0.082J    | 0.5UJ   | X                                                                   | X     | X       | X       | X           | X     | X        | X      | N/A          | N/A     | N/A | N/A |
|                                                                                                             | 08/20/24    | 0.084J                                                              | 0.26J | 0.5U      | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | N/A          | N/A     | N/A | N/A |
|                                                                                                             | 09/23/24    | 0.5U                                                                | 0.21J | 0.5U      | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | N/A          | N/A     | N/A | N/A |
|                                                                                                             | 10/18/24    | 0.17J                                                               | 0.28J | 0.13J     | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | N/A          | N/A     | N/A | N/A |
|                                                                                                             | 11/25/24    | 0.24J                                                               | 0.25J | 0.17J     | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | N/A          | N/A     | N/A | N/A |
|                                                                                                             | 12/18/24    | 0.20J                                                               | 0.31J | 0.13J     | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | N/A          | N/A     | N/A | N/A |
| COD-SW-29                                                                                                   | 01/29/24    | 0.5U                                                                | 0.5U  | 0.5U      | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | X            | X       | X   | X   |
|                                                                                                             | 02/23/24    | 0.5U                                                                | 0.29J | 0.5U      | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | X            | X       | X   | X   |
|                                                                                                             | 03/20/24    | 0.086J                                                              | 0.36J | 0.5U      | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | X            | X       | X   | X   |
|                                                                                                             | 04/29/24    | 0.14J                                                               | 0.47J | 0.18J     | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | X            | X       | X   | X   |
|                                                                                                             | 05/30/24    | 0.12J                                                               | 0.44J | 0.087J    | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | X            | X       | X   | X   |
|                                                                                                             | 06/26/24    | 0.17J                                                               | 0.47J | 0.16J     | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | X            | X       | X   | X   |
|                                                                                                             | 07/25/24    | 0.20J                                                               | 0.57  | 0.16J     | 0.5UJ   | X                                                                   | X     | X       | X       | X           | X     | X        | X      | X            | X       | X   | X   |
|                                                                                                             | 08/20/24    | 0.21J                                                               | 0.55  | 0.15J     | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | X            | X       | X   | X   |
|                                                                                                             | 09/23/24    | 0.13J                                                               | 0.36J | 0.086J    | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | X            | X       | X   | X   |
|                                                                                                             | 10/18/24    | 0.27J                                                               | 0.71  | 0.20J     | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | X            | X       | X   | X   |
|                                                                                                             | 11/25/24    | 0.33J                                                               | 0.92  | 0.20J     | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | X            | X       | X   | X   |
|                                                                                                             | 12/18/24    | 0.27J                                                               | 0.81  | 0.15J     | 0.5U    | X                                                                   | X     | X       | X       | X           | X     | X        | X      | X            | X       | X   | X   |

| TABLE 2.6-5<br>Monthly Surface Water Sampling Results - 2024<br>Former York Naval Ordnance Plant - York, PA |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                    |     |          |    |                                                                     |         |             |       |         |         |             |       |              |        |             |         |
|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----|----------|----|---------------------------------------------------------------------|---------|-------------|-------|---------|---------|-------------|-------|--------------|--------|-------------|---------|
| Sample Location                                                                                             | Sample Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Constituent of Concern Result in Micrograms Per Liter (µg/L)<br>(1)                                |     |          |    | PADEP Surface Water Quality Criteria in Micrograms Per Liter (µg/L) |         |             |       |         |         |             |       |              |        |             |         |
|                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                    |     |          |    | Fish and Aquatic Life                                               |         |             |       |         |         |             |       | Human Health |        |             |         |
|                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                    |     |          |    | AFC                                                                 | AFC     | AFC         | AFC   | CFC     | CFC     | CFC         | CFC   | CRL          | CRL    | H           | CRL     |
|                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | TCE                                                                                                | PCE | cis12DCE | VC | TCE=2,300                                                           | PCE=700 | cis12DCE=NE | VC=NE | TCE=450 | PCE=140 | cis12DCE=NE | VC=NE | TCE=0.60     | PCE=10 | cis12DCE=12 | VC=0.02 |
|                                                                                                             | cis12DCE - cis-1,2-Dichloroethene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                    |     |          |    |                                                                     |         |             |       |         |         |             |       |              |        |             |         |
|                                                                                                             | PCE - Tetrachloroethene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                    |     |          |    |                                                                     |         |             |       |         |         |             |       |              |        |             |         |
|                                                                                                             | TCE - Trichloroethene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                    |     |          |    |                                                                     |         |             |       |         |         |             |       |              |        |             |         |
|                                                                                                             | VC - Vinyl Chloride                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                    |     |          |    |                                                                     |         |             |       |         |         |             |       |              |        |             |         |
|                                                                                                             | (1) Non-detect results are shown as the laboratory Reporting Limit (RL) followed by "U". Detected concentrations between the laboratory RL and the Method Detection Limit (MDL) are shown as the approximate concentration reported by the laboratory followed by "J". These "J" concentrations were positively identified in the sample and are qualitatively acceptable. The PADEP surface water quality criteria of 0.02 µg/L for VC is lower than can be reliably achieved using Pennsylvania-certified analytical methods. However, the analytical method quantitation limit (QL) and RL for VC is acceptable for criteria comparison. |                                                                                                    |     |          |    |                                                                     |         |             |       |         |         |             |       |              |        |             |         |
|                                                                                                             | Bold font indicates analyte detected in sample                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                    |     |          |    |                                                                     |         |             |       |         |         |             |       |              |        |             |         |
|                                                                                                             | Surface water quality criteria from 25 Pa. Code Chapter 93 - Water Quality Standards (Table 5 - Water Quality Criteria for Toxic Substances). Criteria are reviewed periodically and are subject to change.                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                    |     |          |    |                                                                     |         |             |       |         |         |             |       |              |        |             |         |
|                                                                                                             | AFC - Acute Fish Criteria or Criteria Maximum Concentration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                    |     |          |    |                                                                     |         |             |       |         |         |             |       |              |        |             |         |
|                                                                                                             | CFC - Chronic Fish Criteria or Criteria Continuous Concentration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                    |     |          |    |                                                                     |         |             |       |         |         |             |       |              |        |             |         |
|                                                                                                             | CRL - Cancer Risk Level at 1x10 <sup>-6</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                    |     |          |    |                                                                     |         |             |       |         |         |             |       |              |        |             |         |
|                                                                                                             | H - Threshold human health criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                    |     |          |    |                                                                     |         |             |       |         |         |             |       |              |        |             |         |
|                                                                                                             | NE - Criterion not established                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                    |     |          |    |                                                                     |         |             |       |         |         |             |       |              |        |             |         |
|                                                                                                             | N/A - Criterion does not apply to samples from this location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                    |     |          |    |                                                                     |         |             |       |         |         |             |       |              |        |             |         |
|                                                                                                             | X - Criterion applies to samples collected from this location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                    |     |          |    |                                                                     |         |             |       |         |         |             |       |              |        |             |         |
|                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Blue colored highlight indicates sample result is less than criterion                              |     |          |    |                                                                     |         |             |       |         |         |             |       |              |        |             |         |
|                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Tan colored highlight indicates sample collected during WPL groundwater extraction system shutdown |     |          |    |                                                                     |         |             |       |         |         |             |       |              |        |             |         |

**TABLE 3.1-1**  
**2024 Groundwater Monitored Natural Attenuation Analysis - Trichloroethene**  
**Former Naval Ordnance Plant - York, PA**

| Trichloroethene (TCE)                  |                     |                          |                        |           |                                   |                  |                  |                             |              |              |
|----------------------------------------|---------------------|--------------------------|------------------------|-----------|-----------------------------------|------------------|------------------|-----------------------------|--------------|--------------|
| Location at fYNOP                      | Well Identification | Sample Collection Period | Frequency of Detection | MCL (µ/l) | Max Detected Concentration (µg/l) | M-K Trend 90% CC | M-K Trend 80% CC | Date Trend Line Reaches MCL | UCL95 (µg/l) | UCL95 < MCL? |
| Northern Property Boundary Area (NPBA) | MW-3                | 2013 - 2024              | 12 / 12                | 5         | 32                                | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-9                | 2013 - 2024              | 12 / 12                | 5         | 44                                | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-12               | 2013 - 2024              | 12 / 12                | 5         | 130                               | Down             | --               | 2031                        | --           | --           |
|                                        | MW-16S              | 2013 - 2024              | 12 / 12                | 5         | 20                                | None             | None             | NA                          | 16.3         | No           |
|                                        | MW-18S              | 2013 - 2024              | 12 / 12                | 5         | 45                                | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-18D              | 2013 - 2024              | 12 / 12                | 5         | 42                                | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-20S              | 2013 - 2024              | 12 / 12                | 5         | 130                               | Down             | --               | Achieved *                  | --           | --           |
|                                        | MW-20M              | 2013 - 2024              | 12 / 12                | 5         | 32                                | None             | None             | NA                          | 21.2         | No           |
|                                        | MW-143S             | 2013 - 2024              | 8 / 12                 | 5         | 3.0                               | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-143D             | 2013 - 2024              | 0 / 12                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
| Eastern Site Perimeter (ESP)           | CW-1A               | 2013 - 2024              | 12 / 12                | 5         | 56                                | Down             | --               | 2029                        | --           | --           |
|                                        | CW-2                | 2013 - 2024              | 12 / 12                | 5         | 15                                | None             | Down             | Achieved                    | --           | --           |
|                                        | MW-2                | 2019 - 2024              | 4 / 6                  | 5         | 1.1                               | None             | None             | NA                          | 0.942        | Yes          |
| South-Central Site Area (SCSA)         | MW-14               | 2019 - 2024              | 4 / 6                  | 5         | 0.6                               | None             | Down             | Achieved                    | --           | --           |
|                                        | MW-65S              | 2019 - 2024              | 5 / 6                  | 5         | 17                                | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-67S              | 2019 - 2024              | 6 / 6                  | 5         | 2.2                               | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-67D              | 2019 - 2024              | 6 / 6                  | 5         | 1.2                               | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-69               | 2019 - 2024              | 6 / 6                  | 5         | 9.4                               | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-79               | 2019 - 2024              | 4 / 6                  | 5         | 0.42                              | None             | Down             | Achieved                    | --           | --           |
|                                        | MW-88               | 2021 - 2024              | 12 / 14                | 5         | 2.4                               | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-111              | 2019 - 2024              | 4 / 6                  | 5         | 1.2                               | None             | None             | NA                          | 1.19         | Yes          |
| Southern Property Boundary Area (SPBA) | MW-112              | 2019 - 2024              | 6 / 6                  | 5         | 1.0                               | None             | Up               | 2094                        | --           | --           |
|                                        | MW-115              | 2019 - 2024              | 3 / 6                  | 5         | 0.94                              | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-22               | 2019 - 2024              | 6 / 6                  | 5         | 4.4                               | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-108S             | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-108D             | 2019 - 2024              | 1 / 6                  | 5         | 0.29                              | --               | --               | Achieved                    | --           | --           |
|                                        | MW-165              | 2019 - 2024              | 6 / 6                  | 5         | 3.3                               | Down             | --               | Achieved                    | --           | --           |
| South Plume Area (SPA)                 | MW-166              | 2018 - 2024              | 29 / 31                | 5         | 4.9                               | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-167              | 2018 - 2024              | 26 / 31                | 5         | 6.9                               | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-168              | 2018 - 2024              | 0 / 30                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-43D              | 2019 - 2024              | 6 / 6                  | 5         | 5.1                               | Down             | --               | Achieved                    | --           | --           |
|                                        | Cole D              | 2019 - 2024              | 5 / 6                  | 5         | 0.9                               | Down             | --               | Achieved                    | --           | --           |
|                                        | Cole Steel (MW-12)  | 2019 - 2024              | 6 / 6                  | 5         | 16                                | None             | None             | NA                          | 16.1         | No           |
| Codorus Creek Levee Area               | GM-1D               | 2019 - 2024              | 1 / 6                  | 5         | 0.39                              | --               | --               | Achieved                    | --           | --           |
|                                        | MW-110              | 2019 - 2024              | 6 / 6                  | 5         | 0.71                              | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-150              | 2019 - 2024              | 6 / 6                  | 5         | 46                                | Down             | --               | 2035                        | --           | --           |
| West Side of Codorus Creek             | MW-101S             | 2021 - 2024              | 12 / 14                | 5         | 0.76                              | None             | None             | NA                          | 0.582        | Yes          |
|                                        | MW-101D             | 2021 - 2024              | 14 / 14                | 5         | 6.5                               | Down             | --               | Achieved                    | --           | --           |
| Northern Site Perimeter (NSP)          | MW-148A (72.5-73)   | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-148A (136-136.5) | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-5                | 2021 - 2024              | 6 / 14                 | 5         | 0.47                              | None             | None             | NA                          | 0.377        | Yes          |
|                                        | MW-6                | 2021 - 2024              | 0 / 14                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-82               | 2019 - 2024              | 6 / 6                  | 5         | 1.9                               | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-186              | 2020 - 2024              | 0 / 5                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |

Notes:

MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)

Mann-Kendall (M-K) trend tests using USEPA ProUCL version 5.2 statistical software package (USEPA, 2022)

CC - Confidence Coefficient

M-K Trends were calculated for wells with a minimum of four detected concentrations

UCL95 - Upper Confidence Limit on the mean with 95% confidence; calculated for data sets without trend and a minimum of two detected concentrations

NA - Not Applicable

None - Insufficient statistical evidence of a significant trend at the specified CC

Up/Down - The direction of the Theil-Sen trend line fit to the data set

-- - Minimum number of detections not met for the applicable analysis

\* - Theil-Sen line is trending down and predicted to intersect the MCL within the sample collection period; however, the measured concentration in 2024 is greater than the MCL

**Achieved** - The Theil-Sen trend line intersects the MCL within the sample collection period

**2035** - The year when the downward Theil-Sen trend line is projected to reach the MCL (concentration currently greater than MCL)

**2094** - The year when the upward Theil-Sen trend line is projected to reach the MCL (concentration currently less than MCL)

**Yes** - Calculated UCL95 of the data set is less than the MCL, indicating the MCL will not be exceeded in the future

**No** = Calculated UCL95 of the data set is greater than the MCL, indicating the MCL may be exceeded in the future

**TABLE 3.1-2**  
**2024 Groundwater Monitored Natural Attenuation Analysis - Tetrachloroethene**  
**Former Naval Ordnance Plant - York, PA**

| Tetrachloroethene (PCE)                |                     |                          |                        |            |                                   |                  |                  |                             |              |              |
|----------------------------------------|---------------------|--------------------------|------------------------|------------|-----------------------------------|------------------|------------------|-----------------------------|--------------|--------------|
| Location at fYNOP                      | Well Identification | Sample Collection Period | Frequency of Detection | MCL (µg/l) | Max Detected Concentration (µg/l) | M-K Trend 90% CC | M-K Trend 80% CC | Date Trend Line Reaches MCL | UCL95 (µg/l) | UCL95 < MCL? |
| Northern Property Boundary Area (NPBA) | MW-3                | 2013 - 2024              | 6 / 12                 | 5          | 0.54                              | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-9                | 2013 - 2024              | 1 / 12                 | 5          | 0.22                              | --               | --               | Achieved                    | --           | --           |
|                                        | MW-12               | 2013 - 2024              | 12 / 12                | 5          | 6.4                               | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-16S              | 2013 - 2024              | 10 / 12                | 5          | 450                               | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-18S              | 2013 - 2024              | 0 / 12                 | 5          | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-18D              | 2013 - 2024              | 0 / 12                 | 5          | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-20S              | 2013 - 2024              | 12 / 12                | 5          | 17                                | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-20M              | 2013 - 2024              | 9 / 12                 | 5          | 0.74                              | Up               | --               | 2134                        | --           | --           |
|                                        | MW-143S             | 2013 - 2024              | 11 / 12                | 5          | 1.1                               | None             | None             | NA                          | 0.854        | Yes          |
|                                        | MW-143D             | 2013 - 2024              | 0 / 12                 | 5          | NA                                | --               | --               | Achieved                    | --           | --           |
| Eastern Site Perimeter (ESP)           | CW-1A               | 2013 - 2024              | 12 / 12                | 5          | 2.8                               | Down             | --               | Achieved                    | --           | --           |
|                                        | CW-2                | 2013 - 2024              | 12 / 12                | 5          | 3.2                               | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-2                | 2019 - 2024              | 6 / 6                  | 5          | 110                               | None             | None             | NA                          | 101          | No           |
| South-Central Site Area (SCSA)         | MW-14               | 2019 - 2024              | 6 / 6                  | 5          | 5.6                               | None             | None             | NA                          | 4.55         | Yes          |
|                                        | MW-65S              | 2019 - 2024              | 6 / 6                  | 5          | 2.4                               | None             | None             | NA                          | 2.25         | Yes          |
|                                        | MW-67S              | 2019 - 2024              | 6 / 6                  | 5          | 2.5                               | None             | None             | NA                          | 2.17         | Yes          |
|                                        | MW-67D              | 2019 - 2024              | 3 / 6                  | 5          | 0.33                              | --               | --               | NA                          | 0.319        | Yes          |
|                                        | MW-69               | 2019 - 2024              | 3 / 6                  | 5          | 0.38                              | --               | --               | NA                          | 0.361        | Yes          |
|                                        | MW-79               | 2019 - 2024              | 0 / 6                  | 5          | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-88               | 2021 - 2024              | 14 / 14                | 5          | 17                                | None             | None             | NA                          | 8.05         | No           |
|                                        | MW-111              | 2019 - 2024              | 0 / 6                  | 5          | NA                                | --               | --               | Achieved                    | --           | --           |
| Southern Property Boundary Area (SPBA) | MW-112              | 2019 - 2024              | 3 / 6                  | 5          | 1.2                               | --               | --               | NA                          | 0.915        | Yes          |
|                                        | MW-115              | 2019 - 2024              | 0 / 6                  | 5          | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-22               | 2019 - 2024              | 6 / 6                  | 5          | 8.6                               | None             | None             | NA                          | 7.05         | No           |
|                                        | MW-108S             | 2019 - 2024              | 0 / 6                  | 5          | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-108D             | 2019 - 2024              | 3 / 6                  | 5          | 0.48                              | --               | --               | NA                          | 0.403        | Yes          |
|                                        | MW-165              | 2019 - 2024              | 6 / 6                  | 5          | 3.6                               | Down             | --               | Achieved                    | --           | --           |
| South Plume Area (SPA)                 | MW-166              | 2018 - 2024              | 31 / 31                | 5          | 70                                | None             | None             | NA                          | 10.4         | No           |
|                                        | MW-167              | 2018 - 2024              | 31 / 31                | 5          | 14                                | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-168              | 2018 - 2024              | 7 / 30                 | 5          | 1.1                               | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-43D              | 2019 - 2024              | 6 / 6                  | 5          | 6.3                               | Down             | --               | Achieved                    | --           | --           |
|                                        | Cole D              | 2019 - 2024              | 6 / 6                  | 5          | 26                                | None             | None             | NA                          | 21.9         | No           |
|                                        | Cole Steel (MW-12)  | 2019 - 2024              | 5 / 6                  | 5          | 0.9                               | None             | None             | NA                          | 0.894        | Yes          |
| Codorus Creek Levee Area               | GM-1D               | 2019 - 2024              | 6 / 6                  | 5          | 8.8                               | None             | None             | NA                          | 5.21         | No           |
|                                        | MW-110              | 2019 - 2024              | 6 / 6                  | 5          | 23                                | Down             | --               | 2032                        | --           | --           |
|                                        | MW-150              | 2019 - 2024              | 0 / 6                  | 5          | NA                                | --               | --               | Achieved                    | --           | --           |
| West Side of Codorus Creek             | MW-101S             | 2021 - 2024              | 14 / 14                | 5          | 4.2                               | None             | Up               | 2030                        | --           | --           |
|                                        | MW-101D             | 2021 - 2024              | 14 / 14                | 5          | 5.6                               | None             | Down             | Achieved                    | --           | --           |
| Northern Site Perimeter (NSP)          | MW-148A (72.5-73)   | 2019 - 2024              | 0 / 6                  | 5          | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-148A (136-136.5) | 2019 - 2024              | 0 / 6                  | 5          | NA                                | --               | --               | Achieved                    | --           | --           |
| Northern Site Perimeter (NSP)          | MW-5                | 2021 - 2024              | 0 / 14                 | 5          | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-6                | 2021 - 2024              | 0 / 14                 | 5          | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-82               | 2019 - 2024              | 6 / 6                  | 5          | 1.8                               | None             | None             | NA                          | 1.61         | Yes          |
|                                        | MW-186              | 2020 - 2024              | 0 / 5                  | 5          | NA                                | --               | --               | Achieved                    | --           | --           |

Notes:

MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)

Mann-Kendall (M-K) trend tests using USEPA ProUCL version 5.2 statistical software package (USEPA, 2022)

CC - Confidence Coefficient

M-K Trends were calculated for wells with a minimum of four detected concentrations

UCL95 - Upper Confidence Limit on the mean with 95% confidence; calculated for data sets without trend and a minimum of two detected concentrations

NA - Not Applicable

None - Insufficient statistical evidence of a significant trend at the specified CC

Up/Down - The direction of the Theil-Sen trend line fit to the data set

-- - Minimum number of detections not met for the applicable analysis

**Achieved** - The Theil-Sen trend line intersects the MCL within the sample collection period

**2032** - The year when the downward Theil-Sen trend line is projected to reach the MCL (concentration currently greater than MCL)

**2030** - The year when the upward Theil-Sen trend line is projected to reach the MCL (concentration currently less than MCL)

**Yes** - Calculated UCL95 of the data set is less than the MCL, indicating the MCL will not be exceeded in the future

**No** = Calculated UCL95 of the data set is greater than the MCL, indicating the MCL may be exceeded in the future



**TABLE 3.1-3**  
**2024 Groundwater Monitored Natural Attenuation Analysis - cis-1,2-Dichloroethene**  
**Former Naval Ordnance Plant - York, PA**

| cis-1,2-Dichloroethene (cis12DCE)      |                     |                          |                        |           |                                   |                  |                  |                             |              |              |
|----------------------------------------|---------------------|--------------------------|------------------------|-----------|-----------------------------------|------------------|------------------|-----------------------------|--------------|--------------|
| Location at FYNOP                      | Well Identification | Sample Collection Period | Frequency of Detection | MCL (µ/l) | Max Detected Concentration (µg/l) | M-K Trend 90% CC | M-K Trend 80% CC | Date Trend Line Reaches MCL | UCL95 (µg/l) | UCL95 < MCL? |
| Northern Property Boundary Area (NPBA) | MW-3                | 2013 - 2024              | 11 / 12                | 70        | 0.82                              | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-9                | 2013 - 2024              | 12 / 12                | 70        | 36                                | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-12               | 2013 - 2024              | 12 / 12                | 70        | 75                                | Up *             | --               | 2024                        | --           | --           |
|                                        | MW-16S              | 2013 - 2024              | 12 / 12                | 70        | 42                                | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-18S              | 2013 - 2024              | 12 / 12                | 70        | 71                                | None             | Down             | Achieved                    | --           | --           |
|                                        | MW-18D              | 2013 - 2024              | 12 / 12                | 70        | 66                                | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-20S              | 2013 - 2024              | 8 / 12                 | 70        | 2.2                               | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-20M              | 2013 - 2024              | 3 / 12                 | 70        | 0.81                              | --               | --               | NA                          | 0.423        | Yes          |
|                                        | MW-143S             | 2013 - 2024              | 0 / 12                 | 70        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-143D             | 2013 - 2024              | 12 / 12                | 70        | 3.7                               | Up               | --               | 2244                        | --           | --           |
| Eastern Site Perimeter (ESP)           | CW-1A               | 2013 - 2024              | 4 / 12                 | 70        | 0.73                              | None             | Down             | Achieved                    | --           | --           |
|                                        | CW-2                | 2013 - 2024              | 10 / 12                | 70        | 6.1                               | None             | None             | NA                          | 3.42         | Yes          |
|                                        |                     |                          |                        |           |                                   |                  |                  |                             |              |              |
| South-Central Site Area (SCSA)         | MW-2                | 2019 - 2024              | 0 / 6                  | 70        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-14               | 2019 - 2024              | 0 / 6                  | 70        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-65S              | 2019 - 2024              | 1 / 6                  | 70        | 0.24                              | --               | --               | Achieved                    | --           | --           |
|                                        |                     |                          |                        |           |                                   |                  |                  |                             |              |              |
|                                        | MW-67S              | 2019 - 2024              | 4 / 6                  | 70        | 0.4                               | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-67D              | 2019 - 2024              | 4 / 6                  | 70        | 0.35                              | None             | None             | NA                          | 0.347        | Yes          |
|                                        | MW-69               | 2019 - 2024              | 6 / 6                  | 70        | 8.0                               | None             | None             | NA                          | 6.64         | Yes          |
| Southern Property Boundary Area (SPBA) | MW-79               | 2019 - 2024              | 6 / 6                  | 70        | 6.2                               | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-88               | 2021 - 2024              | 10 / 14                | 70        | 1.8                               | None             | Down             | Achieved                    | --           | --           |
|                                        |                     |                          |                        |           |                                   |                  |                  |                             |              |              |
|                                        | MW-111              | 2019 - 2024              | 5 / 6                  | 70        | 8.6                               | None             | None             | NA                          | 7.83         | Yes          |
|                                        | MW-112              | 2019 - 2024              | 0 / 6                  | 70        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-115              | 2019 - 2024              | 6 / 6                  | 70        | 150                               | Down             | --               | Achieved                    | --           | --           |
|                                        |                     |                          |                        |           |                                   |                  |                  |                             |              |              |
| South Plume Area (SPA)                 | MW-22               | 2019 - 2024              | 1 / 6                  | 70        | 0.2                               | --               | --               | Achieved                    | --           | --           |
|                                        | MW-108S             | 2019 - 2024              | 0 / 6                  | 70        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-108D             | 2019 - 2024              | 0 / 6                  | 70        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-165              | 2019 - 2024              | 0 / 6                  | 70        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-166              | 2018 - 2024              | 1 / 31                 | 70        | 0.8                               | --               | --               | Achieved                    | --           | --           |
|                                        | MW-167              | 2018 - 2024              | 0 / 31                 | 70        | NA                                | --               | --               | Achieved                    | --           | --           |
| Codorus Creek Levee Area               | MW-168              | 2018 - 2024              | 0 / 30                 | 70        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        |                     |                          |                        |           |                                   |                  |                  |                             |              |              |
|                                        | MW-43D              | 2019 - 2024              | 6 / 6                  | 70        | 7.2                               | Down             | --               | Achieved                    | --           | --           |
|                                        | Cole D              | 2019 - 2024              | 0 / 6                  | 70        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | Cole Steel (MW-12)  | 2019 - 2024              | 6 / 6                  | 70        | 18                                | None             | None             | NA                          | 17.6         | Yes          |
| West Side of Codorus Creek             | GM-1D               | 2019 - 2024              | 0 / 6                  | 70        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-110              | 2019 - 2024              | 0 / 6                  | 70        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-150              | 2019 - 2024              | 6 / 6                  | 70        | 44                                | None             | None             | NA                          | 41.6         | Yes          |
|                                        |                     |                          |                        |           |                                   |                  |                  |                             |              |              |
| Northern Site Perimeter (NSP)          | MW-101S             | 2021 - 2024              | 11 / 14                | 70        | 0.7                               | None             | None             | NA                          | 0.470        | Yes          |
|                                        | MW-101D             | 2021 - 2024              | 14 / 14                | 70        | 13                                | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-148A (72.5-73)   | 2019 - 2024              | 0 / 6                  | 70        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-148A (136-136.5) | 2019 - 2024              | 0 / 6                  | 70        | NA                                | --               | --               | Achieved                    | --           | --           |
| Northern Site Perimeter (NSP)          | MW-5                | 2021 - 2024              | 14 / 14                | 70        | 6.0                               | None             | Down             | Achieved                    | --           | --           |
|                                        | MW-6                | 2021 - 2024              | 0 / 14                 | 70        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-82               | 2019 - 2024              | 6 / 6                  | 70        | 2.4                               | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-186              | 2020 - 2024              | 0 / 5                  | 70        | NA                                | --               | --               | Achieved                    | --           | --           |

Notes:

MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)

Mann-Kendall (M-K) trend tests using USEPA ProUCL version 5.2 statistical software package (USEPA, 2022)

CC - Confidence Coefficient

M-K Trends were calculated for wells with a minimum of four detected concentrations

UCL95 - Upper Confidence Limit on the mean with 95% confidence; calculated for data sets without trend and a minimum of two detected concentrations

NA - Not Applicable

None - Insufficient statistical evidence of a significant trend at the specified CC

Up/Down - The direction of the Theil-Sen trend line fit to the data set

-- - Minimum number of detections not met for the applicable analysis

\* - Theil-Sen line is trending up and predicted to intersect the MCL within the sample collection period, the measured concentration in 2024 is greater than the MCL

**Achieved** - The Theil-Sen trend line intersects the MCL within the sample collection period

**2024** - The year when the downward Theil-Sen trend line is projected to reach the MCL (concentration currently greater than MCL)

**2244** - The year when the upward Theil-Sen trend line is projected to reach the MCL (concentration currently less than MCL)

**Yes** - Calculated UCL95 of the data set is less than the MCL, indicating the MCL will not be exceeded in the future

**No** - Calculated UCL95 of the data set is greater than the MCL, indicating the MCL may be exceeded in the future



**TABLE 3.1-4**  
**2024 Groundwater Monitored Natural Attenuation Analysis - Vinyl Chloride**  
**Former Naval Ordnance Plant - York, PA**

| Vinyl Chloride (VC)                    |                     |                          |                        |           |                                   |                  |                  |                             |              |              |
|----------------------------------------|---------------------|--------------------------|------------------------|-----------|-----------------------------------|------------------|------------------|-----------------------------|--------------|--------------|
| Location at fYNOP                      | Well Identification | Sample Collection Period | Frequency of Detection | MCL (µ/l) | Max Detected Concentration (µg/l) | M-K Trend 90% CC | M-K Trend 80% CC | Date Trend Line Reaches MCL | UCL95 (µg/l) | UCL95 < MCL? |
| Northern Property Boundary Area (NPBA) | MW-3                | 2013 - 2024              | 0 / 12                 | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-9                | 2013 - 2024              | 9 / 12                 | 2         | 5.6                               | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-12               | 2013 - 2024              | 0 / 12                 | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-16S              | 2013 - 2024              | 0 / 12                 | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-18S              | 2013 - 2024              | 5 / 12                 | 2         | 1.7                               | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-18D              | 2013 - 2024              | 6 / 12                 | 2         | 1.6                               | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-20S              | 2013 - 2024              | 0 / 12                 | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-20M              | 2013 - 2024              | 0 / 12                 | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-143S             | 2013 - 2024              | 0 / 12                 | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-143D             | 2013 - 2024              | 0 / 12                 | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
| Eastern Site Perimeter (ESP)           | CW-1A               | 2013 - 2024              | 0 / 12                 | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | CW-2                | 2013 - 2024              | 0 / 12                 | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-2                | 2019 - 2024              | 0 / 6                  | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
| South-Central Site Area (SCSA)         | MW-14               | 2019 - 2024              | 0 / 6                  | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-65S              | 2019 - 2024              | 0 / 6                  | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-67S              | 2019 - 2024              | 0 / 6                  | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-67D              | 2019 - 2024              | 0 / 6                  | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-69               | 2019 - 2024              | 0 / 6                  | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-79               | 2019 - 2024              | 0 / 6                  | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-88               | 2021 - 2024              | 0 / 14                 | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
| Southern Property Boundary Area (SPBA) | MW-111              | 2019 - 2024              | 0 / 6                  | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-112              | 2019 - 2024              | 0 / 6                  | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-115              | 2019 - 2024              | 6 / 6                  | 2         | 95                                | None             | None             | NA                          | 91.1         | No           |
|                                        | MW-22               | 2019 - 2024              | 0 / 6                  | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-108S             | 2019 - 2024              | 0 / 6                  | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-108D             | 2019 - 2024              | 0 / 6                  | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
| South Plume Area (SPA)                 | MW-165              | 2019 - 2024              | 0 / 6                  | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-166              | 2018 - 2024              | 0 / 31                 | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-167              | 2018 - 2024              | 0 / 31                 | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-168              | 2018 - 2024              | 0 / 30                 | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-43D              | 2019 - 2024              | 0 / 6                  | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
| Codorus Creek Levee Area               | Cole D              | 2019 - 2024              | 0 / 6                  | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | Cole Steel (MW-12)  | 2019 - 2024              | 0 / 6                  | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | GM-1D               | 2019 - 2024              | 0 / 6                  | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-110              | 2019 - 2024              | 0 / 6                  | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-150              | 2019 - 2024              | 0 / 6                  | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
| West Side of Codorus Creek             | MW-101S             | 2021 - 2024              | 0 / 14                 | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-101D             | 2021 - 2024              | 0 / 14                 | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
| Northern Site Perimeter (NSP)          | MW-148A (72.5-73)   | 2019 - 2024              | 0 / 6                  | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-148A (136-136.5) | 2019 - 2024              | 0 / 6                  | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-5                | 2021 - 2024              | 1 / 14                 | 2         | 0.1                               | --               | --               | Achieved                    | --           | --           |
|                                        | MW-6                | 2021 - 2024              | 0 / 14                 | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-82               | 2019 - 2024              | 0 / 6                  | 2         | NA                                | --               | --               | Achieved                    | --           | --           |
| Northern Site Perimeter (NSP)          | MW-186              | 2020 - 2024              | 0 / 5                  | 2         | NA                                | --               | --               | Achieved                    | --           | --           |

Notes:

MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)

Mann-Kendall (M-K) trend tests using USEPA ProUCL version 5.2 statistical software package (USEPA, 2022)

CC - Confidence Coefficient

M-K Trends were calculated for wells with a minimum of four detected concentrations

UCL95 - Upper Confidence Limit on the mean with 95% confidence; calculated for data sets without trend and a minimum of two detected concentrations

NA - Not Applicable

None - Insufficient statistical evidence of a significant trend at the specified CC

Up/Down - The direction of the Theil-Sen trend line fit to the data set

-- - Minimum number of detections not met for the applicable analysis

**Achieved** - The Theil-Sen trend line intersects the MCL within the sample collection period

**2035** - The year when the downward Theil-Sen trend line is projected to reach the MCL (concentration currently greater than MCL)

**2094** - The year when the upward Theil-Sen trend line is projected to reach the MCL (concentration currently less than MCL)

**Yes** - Calculated UCL95 of the data set is less than the MCL, indicating the MCL will not be exceeded in the future

**No** = Calculated UCL95 of the data set is greater than the MCL, indicating the MCL may be exceeded in the future

**TABLE 3.1-5**  
**2024 Groundwater Monitored Natural Attenuation Analysis - 1,1-Dichloroethane**  
**Former Naval Ordnance Plant - York, PA**

| 1,1-Dichloroethane (11DCA)             |                     |                          |                        |           |                                   |                  |                  |                             |              |              |
|----------------------------------------|---------------------|--------------------------|------------------------|-----------|-----------------------------------|------------------|------------------|-----------------------------|--------------|--------------|
| Location at fYNOP                      | Well Identification | Sample Collection Period | Frequency of Detection | RSL (µ/l) | Max Detected Concentration (µg/l) | M-K Trend 90% CC | M-K Trend 80% CC | Date Trend Line Reaches RSL | UCL95 (µg/l) | UCL95 < RSL? |
| Northern Property Boundary Area (NPBA) | MW-3                | 2013 - 2024              | 0 / 12                 | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-9                | 2013 - 2024              | 0 / 12                 | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-12               | 2013 - 2024              | 0 / 12                 | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-16S              | 2013 - 2024              | 0 / 12                 | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-18S              | 2013 - 2024              | 0 / 12                 | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-18D              | 2013 - 2024              | 0 / 12                 | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-20S              | 2013 - 2024              | 0 / 12                 | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-20M              | 2013 - 2024              | 0 / 12                 | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-143S             | 2013 - 2024              | 0 / 12                 | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-143D             | 2013 - 2024              | 0 / 12                 | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
| Eastern Site Perimeter (ESP)           | CW-1A               | 2013 - 2024              | 0 / 12                 | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | CW-2                | 2013 - 2024              | 0 / 12                 | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-2                | 2019 - 2024              | 0 / 6                  | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
| South-Central Site Area (SCSA)         | MW-14               | 2019 - 2024              | 0 / 6                  | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-65S              | 2019 - 2024              | 0 / 6                  | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-67S              | 2019 - 2024              | 0 / 6                  | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-67D              | 2019 - 2024              | 0 / 6                  | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-69               | 2019 - 2024              | 0 / 6                  | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-79               | 2019 - 2024              | 6 / 6                  | 2.8       | 2.9                               | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-88               | 2021 - 2024              | 1 / 14                 | 2.8       | 0.4                               | --               | --               | Achieved                    | --           | --           |
| Southern Property Boundary Area (SPBA) | MW-111              | 2019 - 2024              | 0 / 6                  | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-112              | 2019 - 2024              | 0 / 6                  | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-115              | 2019 - 2024              | 6 / 6                  | 2.8       | 20                                | Down             | --               | 2032                        | --           | --           |
|                                        | MW-22               | 2019 - 2024              | 0 / 6                  | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-108S             | 2019 - 2024              | 0 / 6                  | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-108D             | 2019 - 2024              | 0 / 6                  | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
| South Plume Area (SPA)                 | MW-165              | 2019 - 2024              | 0 / 6                  | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-166              | 2018 - 2024              | 0 / 31                 | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-167              | 2018 - 2024              | 0 / 31                 | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-168              | 2018 - 2024              | 0 / 30                 | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-43D              | 2019 - 2024              | 0 / 6                  | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
| Codorus Creek Levee Area               | Cole D              | 2019 - 2024              | 0 / 6                  | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | Cole Steel (MW-12)  | 2019 - 2024              | 0 / 6                  | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | GM-1D               | 2019 - 2024              | 0 / 6                  | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-110              | 2019 - 2024              | 0 / 6                  | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-150              | 2019 - 2024              | 0 / 6                  | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
| West Side of Codorus Creek             | MW-101S             | 2021 - 2024              | 0 / 14                 | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-101D             | 2021 - 2024              | 1 / 14                 | 2.8       | 0.23                              | --               | --               | Achieved                    | --           | --           |
| Northern Site Perimeter (NSP)          | MW-148A (72.5-73)   | 2019 - 2024              | 0 / 6                  | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-148A (136-136.5) | 2019 - 2024              | 0 / 6                  | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-5                | 2021 - 2024              | 1 / 14                 | 2.8       | 0.19                              | --               | --               | Achieved                    | --           | --           |
|                                        | MW-6                | 2021 - 2024              | 0 / 14                 | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-82               | 2019 - 2024              | 1 / 6                  | 2.8       | 0.22                              | --               | --               | Achieved                    | --           | --           |
|                                        | MW-186              | 2020 - 2024              | 0 / 5                  | 2.8       | NA                                | --               | --               | Achieved                    | --           | --           |

Notes:

MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)

Mann-Kendall (M-K) trend tests using USEPA ProUCL version 5.2 statistical software package (USEPA, 2022)

CC - Confidence Coefficient

M-K Trends were calculated for wells with a minimum of four detected concentrations

UCL95 - Upper Confidence Limit on the mean with 95% confidence; calculated for data sets without trend and a minimum of two detected concentrations

NA - Not Applicable

None - Insufficient statistical evidence of a significant trend at the specified CC

Up/Down - The direction of the Theil-Sen trend line fit to the data set

-- - Minimum number of detections not met for the applicable analysis

**Achieved** - The Theil-Sen trend line intersects the RSL within the sample collection period

**2032** - The year when the downward Theil-Sen trend line is projected to reach the RSL (concentration currently greater than RSL)

**2094** - The year when the upward Theil-Sen trend line is projected to reach the RSL (concentration currently less than RSL)

**Yes** - Calculated UCL95 of the data set is less than the RSL, indicating the RSL will not be exceeded in the future

**No** = Calculated UCL95 of the data set is greater than the RSL, indicating the RSL may be exceeded in the future

**TABLE 3.1-6**  
**2024 Groundwater Monitored Natural Attenuation Analysis - 1,1-Dichloroethene**  
**Former Naval Ordnance Plant - York, PA**

| 1,1-Dichloroethene (11DCE)             |                     |                          |                        |           |                                   |                  |                  |                             |              |              |
|----------------------------------------|---------------------|--------------------------|------------------------|-----------|-----------------------------------|------------------|------------------|-----------------------------|--------------|--------------|
| Location at fYNOP                      | Well Identification | Sample Collection Period | Frequency of Detection | MCL (µ/l) | Max Detected Concentration (µg/l) | M-K Trend 90% CC | M-K Trend 80% CC | Date Trend Line Reaches MCL | UCL95 (µg/l) | UCL95 < MCL? |
| Northern Property Boundary Area (NPBA) | MW-3                | 2013 - 2024              | 0 / 12                 | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-9                | 2013 - 2024              | 0 / 12                 | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-12               | 2013 - 2024              | 0 / 12                 | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-16S              | 2013 - 2024              | 0 / 12                 | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-18S              | 2013 - 2024              | 0 / 12                 | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-18D              | 2013 - 2024              | 0 / 12                 | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-20S              | 2013 - 2024              | 0 / 12                 | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-20M              | 2013 - 2024              | 0 / 12                 | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-143S             | 2013 - 2024              | 0 / 12                 | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-143D             | 2013 - 2024              | 0 / 12                 | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
| Eastern Site Perimeter (ESP)           | CW-1A               | 2013 - 2024              | 0 / 12                 | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | CW-2                | 2013 - 2024              | 0 / 12                 | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-2                | 2019 - 2024              | 0 / 6                  | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
| South-Central Site Area (SCSA)         | MW-14               | 2019 - 2024              | 0 / 6                  | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-65S              | 2019 - 2024              | 0 / 6                  | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-67S              | 2019 - 2024              | 6 / 6                  | 7         | 2.0                               | None             | None             | NA                          | 1.62         | Yes          |
|                                        | MW-67D              | 2019 - 2024              | 0 / 6                  | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-69               | 2019 - 2024              | 1 / 6                  | 7         | 0.26                              | --               | --               | Achieved                    | --           | --           |
|                                        | MW-79               | 2019 - 2024              | 0 / 6                  | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-88               | 2021 - 2024              | 0 / 14                 | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
| Southern Property Boundary Area (SPBA) | MW-111              | 2019 - 2024              | 5 / 6                  | 7         | 0.64                              | None             | None             | NA                          | 0.581        | Yes          |
|                                        | MW-112              | 2019 - 2024              | 0 / 6                  | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-115              | 2019 - 2024              | 6 / 6                  | 7         | 3.1                               | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-22               | 2019 - 2024              | 0 / 6                  | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-108S             | 2019 - 2024              | 0 / 6                  | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-108D             | 2019 - 2024              | 0 / 6                  | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
| South Plume Area (SPA)                 | MW-165              | 2019 - 2024              | 0 / 6                  | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-166              | 2018 - 2024              | 0 / 31                 | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-167              | 2018 - 2024              | 0 / 31                 | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-168              | 2018 - 2024              | 0 / 30                 | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-43D              | 2019 - 2024              | 0 / 6                  | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | Cole D              | 2019 - 2024              | 0 / 6                  | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
| Codorus Creek Levee Area               | Cole Steel (MW-12)  | 2019 - 2024              | 0 / 6                  | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | GM-1D               | 2019 - 2024              | 0 / 6                  | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
| West Side of Codorus Creek             | MW-110              | 2019 - 2024              | 0 / 6                  | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-150              | 2019 - 2024              | 6 / 6                  | 7         | 0.9                               | Down             | --               | Achieved                    | --           | --           |
| Northern Site Perimeter (NSP)          | MW-101S             | 2021 - 2024              | 0 / 14                 | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-101D             | 2021 - 2024              | 1 / 14                 | 7         | 0.2                               | --               | --               | Achieved                    | --           | --           |
| Northern Site Perimeter (NSP)          | MW-148A (72.5-73)   | 2019 - 2024              | 0 / 6                  | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-148A (136-136.5) | 2019 - 2024              | 0 / 6                  | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
| Northern Site Perimeter (NSP)          | MW-5                | 2021 - 2024              | 1 / 14                 | 7         | 0.21                              | --               | --               | Achieved                    | --           | --           |
|                                        | MW-6                | 2021 - 2024              | 0 / 14                 | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-82               | 2019 - 2024              | 0 / 6                  | 7         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-186              | 2020 - 2024              | 0 / 5                  | 7         | NA                                | --               | --               | Achieved                    | --           | --           |

Notes:

MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)

Mann-Kendall (M-K) trend tests using USEPA ProUCL version 5.2 statistical software package (USEPA, 2022)

CC - Confidence Coefficient

M-K Trends were calculated for wells with a minimum of four detected concentrations

UCL95 - Upper Confidence Limit on the mean with 95% confidence; calculated for data sets without trend and a minimum of two detected concentrations

NA - Not Applicable

None - Insufficient statistical evidence of a significant trend at the specified CC

Up/Down - The direction of the Theil-Sen trend line fit to the data set

-- - Minimum number of detections not met for the applicable analysis

**Achieved** - The Theil-Sen trend line intersects the MCL within the sample collection period

**2035** - The year when the downward Theil-Sen trend line is projected to reach the MCL (concentration currently greater than MCL)

**2094** - The year when the upward Theil-Sen trend line is projected to reach the MCL (concentration currently less than MCL)

**Yes** - Calculated UCL95 of the data set is less than the MCL, indicating the MCL will not be exceeded in the future

**No** - Calculated UCL95 of the data set is greater than the MCL, indicating the MCL may be exceeded in the future

**TABLE 3.1-7**  
**2024 Groundwater Monitored Natural Attenuation Analysis 1,2-Dichloroethane**  
**Former Naval Ordnance Plant - York, PA**

| 1,2-Dichloroethane (12DCA)             |                     |                          |                        |           |                                   |                  |                  |                             |              |              |
|----------------------------------------|---------------------|--------------------------|------------------------|-----------|-----------------------------------|------------------|------------------|-----------------------------|--------------|--------------|
| Location at fYNOP                      | Well Identification | Sample Collection Period | Frequency of Detection | MCL (µ/l) | Max Detected Concentration (µg/l) | M-K Trend 90% CC | M-K Trend 80% CC | Date Trend Line Reaches MCL | UCL95 (µg/l) | UCL95 < MCL? |
| Northern Property Boundary Area (NPBA) | MW-3                | 2013 - 2024              | 0 / 12                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-9                | 2013 - 2024              | 0 / 12                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-12               | 2013 - 2024              | 0 / 12                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-16S              | 2013 - 2024              | 0 / 12                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-18S              | 2013 - 2024              | 0 / 12                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-18D              | 2013 - 2024              | 0 / 12                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-20S              | 2013 - 2024              | 0 / 12                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-20M              | 2013 - 2024              | 0 / 12                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-143S             | 2013 - 2024              | 0 / 12                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-143D             | 2013 - 2024              | 0 / 12                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
| Eastern Site Perimeter (ESP)           | CW-1A               | 2013 - 2024              | 0 / 12                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | CW-2                | 2013 - 2024              | 0 / 12                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-2                | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
| South-Central Site Area (SCSA)         | MW-14               | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-65S              | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-67S              | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-67D              | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-69               | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-79               | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-88               | 2021 - 2024              | 0 / 14                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
| Southern Property Boundary Area (SPBA) | MW-111              | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-112              | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-115              | 2019 - 2024              | 4 / 6                  | 5         | 1.5                               | Down             | --               | Achieved                    | --           | --           |
|                                        | MW-22               | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-108S             | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-108D             | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
| South Plume Area (SPA)                 | MW-165              | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-166              | 2018 - 2024              | 0 / 31                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-167              | 2018 - 2024              | 0 / 31                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-168              | 2018 - 2024              | 0 / 30                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-43D              | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
| Codorus Creek Levee Area               | Cole D              | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | Cole Steel (MW-12)  | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | GM-1D               | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-110              | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-150              | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
| West Side of Codorus Creek             | MW-101S             | 2021 - 2024              | 0 / 14                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-101D             | 2021 - 2024              | 0 / 14                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
| Northern Site Perimeter (NSP)          | MW-148A (72.5-73)   | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-148A (136-136.5) | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-5                | 2021 - 2024              | 0 / 14                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-6                | 2021 - 2024              | 0 / 14                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-82               | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-186              | 2020 - 2024              | 0 / 5                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |

Notes:

MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)

Mann-Kendall (M-K) trend tests using USEPA ProUCL version 5.2 statistical software package (USEPA, 2022)

CC - Confidence Coefficient

M-K Trends were calculated for wells with a minimum of four detected concentrations

UCL95 - Upper Confidence Limit on the mean with 95% confidence; calculated for data sets without trend and a minimum of two detected concentrations

NA - Not Applicable

None - Insufficient statistical evidence of a significant trend at the specified CC

Up/Down - The direction of the Theil-Sen trend line fit to the data set

-- - Minimum number of detections not met for the applicable analysis

**Achieved** - The Theil-Sen trend line intersects the MCL within the sample collection period

**2035** - The year when the downward Theil-Sen trend line is projected to reach the MCL (concentration currently greater than MCL)

**2094** - The year when the upward Theil-Sen trend line is projected to reach the MCL (concentration currently less than MCL)

**Yes** - Calculated UCL95 of the data set is less than the MCL, indicating the MCL will not be exceeded in the future

**No** = Calculated UCL95 of the data set is greater than the MCL, indicating the MCL may be exceeded in the future

**TABLE 3.1-8**  
**2024 Groundwater Monitored Natural Attenuation Analysis - 1,1,1-Trichloroethane**  
**Former Naval Ordnance Plant - York, PA**

| 1,1,1-Trichloroethane (111TCA)         |                     |                          |                        |           |                                   |                  |                  |                             |              |              |
|----------------------------------------|---------------------|--------------------------|------------------------|-----------|-----------------------------------|------------------|------------------|-----------------------------|--------------|--------------|
| Location at fYNOP                      | Well Identification | Sample Collection Period | Frequency of Detection | MCL (µ/l) | Max Detected Concentration (µg/l) | M-K Trend 90% CC | M-K Trend 80% CC | Date Trend Line Reaches MCL | UCL95 (µg/l) | UCL95 < MCL? |
| Northern Property Boundary Area (NPBA) | MW-3                | 2013 - 2024              | 0 / 12                 | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-9                | 2013 - 2024              | 0 / 12                 | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-12               | 2013 - 2024              | 0 / 12                 | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-16S              | 2013 - 2024              | 0 / 12                 | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-18S              | 2013 - 2024              | 0 / 12                 | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-18D              | 2013 - 2024              | 0 / 12                 | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-20S              | 2013 - 2024              | 0 / 12                 | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-20M              | 2013 - 2024              | 0 / 12                 | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-143S             | 2013 - 2024              | 0 / 12                 | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-143D             | 2013 - 2024              | 0 / 12                 | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
| Eastern Site Perimeter (ESP)           | CW-1A               | 2013 - 2024              | 0 / 12                 | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | CW-2                | 2013 - 2024              | 0 / 12                 | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-2                | 2019 - 2024              | 0 / 6                  | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
| South-Central Site Area (SCSA)         | MW-14               | 2019 - 2024              | 0 / 6                  | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-65S              | 2019 - 2024              | 0 / 6                  | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-67S              | 2019 - 2024              | 6 / 6                  | 200       | 10                                | None             | None             | NA                          | 7.36         | Yes          |
|                                        | MW-67D              | 2019 - 2024              | 0 / 6                  | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-69               | 2019 - 2024              | 0 / 6                  | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-79               | 2019 - 2024              | 0 / 6                  | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-88               | 2021 - 2024              | 0 / 14                 | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
| Southern Property Boundary Area (SPBA) | MW-111              | 2019 - 2024              | 0 / 6                  | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-112              | 2019 - 2024              | 0 / 6                  | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-115              | 2019 - 2024              | 0 / 6                  | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-22               | 2019 - 2024              | 0 / 6                  | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-108S             | 2019 - 2024              | 0 / 6                  | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-108D             | 2019 - 2024              | 0 / 6                  | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
| South Plume Area (SPA)                 | MW-165              | 2019 - 2024              | 0 / 6                  | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-166              | 2018 - 2024              | 0 / 31                 | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-167              | 2018 - 2024              | 0 / 31                 | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-168              | 2018 - 2024              | 0 / 30                 | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-43D              | 2019 - 2024              | 0 / 6                  | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | Cole D              | 2019 - 2024              | 0 / 6                  | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
| Codorus Creek Levee Area               | Cole Steel (MW-12)  | 2019 - 2024              | 0 / 6                  | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | GM-1D               | 2019 - 2024              | 0 / 6                  | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-110              | 2019 - 2024              | 0 / 6                  | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
| West Side of Codorus Creek             | MW-150              | 2019 - 2024              | 0 / 6                  | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-101S             | 2021 - 2024              | 1 / 14                 | 200       | 0.1                               | --               | --               | Achieved                    | --           | --           |
| Northern Site Perimeter (NSP)          | MW-101D             | 2021 - 2024              | 1 / 14                 | 200       | 0.088                             | --               | --               | Achieved                    | --           | --           |
|                                        | MW-148A (72.5-73)   | 2019 - 2024              | 0 / 6                  | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-148A (136-136.5) | 2019 - 2024              | 0 / 6                  | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
| Northern Site Perimeter (NSP)          | MW-5                | 2021 - 2024              | 0 / 14                 | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-6                | 2021 - 2024              | 0 / 14                 | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-82               | 2019 - 2024              | 0 / 6                  | 200       | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-186              | 2020 - 2024              | 0 / 5                  | 200       | NA                                | --               | --               | Achieved                    | --           | --           |

Notes:

MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)

Mann-Kendall (M-K) trend tests using USEPA ProUCL version 5.2 statistical software package (USEPA, 2022)

CC - Confidence Coefficient

M-K Trends were calculated for wells with a minimum of four detected concentrations

UCL95 - Upper Confidence Limit on the mean with 95% confidence; calculated for data sets without trend and a minimum of two detected concentrations

NA - Not Applicable

None - Insufficient statistical evidence of a significant trend at the specified CC

Up/Down - The direction of the Theil-Sen trend line fit to the data set

-- - Minimum number of detections not met for the applicable analysis

**Achieved** - The Theil-Sen trend line intersects the MCL within the sample collection period

**2035** - The year when the downward Theil-Sen trend line is projected to reach the MCL (concentration currently greater than MCL)

**2094** - The year when the upward Theil-Sen trend line is projected to reach the MCL (concentration currently less than MCL)

**Yes** - Calculated UCL95 of the data set is less than the MCL, indicating the MCL will not be exceeded in the future

**No** = Calculated UCL95 of the data set is greater than the MCL, indicating the MCL may be exceeded in the future

**TABLE 3.1-9**  
**2024 Groundwater Monitored Natural Attenuation Analysis - Benzene**  
**Former Naval Ordnance Plant - York, PA**

| Benzene                                |                     |                          |                        |           |                                   |                  |                  |                             |              |              |
|----------------------------------------|---------------------|--------------------------|------------------------|-----------|-----------------------------------|------------------|------------------|-----------------------------|--------------|--------------|
| Location at fYNOP                      | Well Identification | Sample Collection Period | Frequency of Detection | MCL (µ/l) | Max Detected Concentration (µg/l) | M-K Trend 90% CC | M-K Trend 80% CC | Date Trend Line Reaches MCL | UCL95 (µg/l) | UCL95 < MCL? |
| Northern Property Boundary Area (NPBA) | MW-3                | 2013 - 2024              | 0 / 12                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-9                | 2013 - 2024              | 0 / 12                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-12               | 2013 - 2024              | 0 / 12                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-16S              | 2013 - 2024              | 0 / 12                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-18S              | 2013 - 2024              | 0 / 12                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-18D              | 2013 - 2024              | 0 / 12                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-20S              | 2013 - 2024              | 0 / 12                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-20M              | 2013 - 2024              | 0 / 12                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-143S             | 2013 - 2024              | 0 / 12                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-143D             | 2013 - 2024              | 0 / 12                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
| Eastern Site Perimeter (ESP)           | CW-1A               | 2013 - 2024              | 0 / 12                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | CW-2                | 2013 - 2024              | 0 / 12                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-2                | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
| South-Central Site Area (SCSA)         | MW-14               | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-65S              | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-67S              | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-67D              | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-69               | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-79               | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-88               | 2021 - 2024              | 0 / 14                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
| Southern Property Boundary Area (SPBA) | MW-111              | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-112              | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-115              | 2019 - 2024              | 6 / 6                  | 5         | 9.3                               | Down             | --               | 2026                        | --           | --           |
|                                        | MW-22               | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-108S             | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-108D             | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
| South Plume Area (SPA)                 | MW-165              | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-166              | 2018 - 2024              | 0 / 31                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-167              | 2018 - 2024              | 0 / 31                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-168              | 2018 - 2024              | 0 / 30                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-43D              | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
| Codorus Creek Levee Area               | Cole D              | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | Cole Steel (MW-12)  | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | GM-1D               | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-110              | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-150              | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
| West Side of Codorus Creek             | MW-101S             | 2021 - 2024              | 0 / 14                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-101D             | 2021 - 2024              | 3 / 14                 | 5         | 1.6                               | --               | --               | NA                          | 0.49         | Yes          |
| Northern Site Perimeter (NSP)          | MW-148A (72.5-73)   | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-148A (136-136.5) | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-5                | 2021 - 2024              | 0 / 14                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-6                | 2021 - 2024              | 0 / 14                 | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-82               | 2019 - 2024              | 0 / 6                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-186              | 2020 - 2024              | 0 / 5                  | 5         | NA                                | --               | --               | Achieved                    | --           | --           |

Notes:

MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)

Mann-Kendall (M-K) trend tests using USEPA ProUCL version 5.2 statistical software package (USEPA, 2022)

CC - Confidence Coefficient

M-K Trends were calculated for wells with a minimum of four detected concentrations

UCL95 - Upper Confidence Limit on the mean with 95% confidence; calculated for data sets without trend and a minimum of two detected concentrations

NA - Not Applicable

None - Insufficient statistical evidence of a significant trend at the specified CC

Up/Down - The direction of the Theil-Sen trend line fit to the data set

-- - Minimum number of detections not met for the applicable analysis

**Achieved** - The Theil-Sen trend line intersects the MCL within the sample collection period

**2026** - The year when the downward Theil-Sen trend line is projected to reach the MCL (concentration currently greater than MCL)

**2094** - The year when the upward Theil-Sen trend line is projected to reach the MCL (concentration currently less than MCL)

**Yes** - Calculated UCL95 of the data set is less than the MCL, indicating the MCL will not be exceeded in the future

**No** = Calculated UCL95 of the data set is greater than the MCL, indicating the MCL may be exceeded in the future



**TABLE 3.1-10**  
**2024 Groundwater Monitored Natural Attenuation Analysis - Methyl Tertiary-Butyl Ether**  
**Former Naval Ordnance Plant - York, PA**

| Methyl Tertiary-Butyl Ether (MTBE)     |                     |                          |                        |           |                                   |                  |                  |                             |              |              |
|----------------------------------------|---------------------|--------------------------|------------------------|-----------|-----------------------------------|------------------|------------------|-----------------------------|--------------|--------------|
| Location at fYNOP                      | Well Identification | Sample Collection Period | Frequency of Detection | RSL (µ/l) | Max Detected Concentration (µg/l) | M-K Trend 90% CC | M-K Trend 80% CC | Date Trend Line Reaches RSL | UCL95 (µg/l) | UCL95 < RSL? |
| Northern Property Boundary Area (NPBA) | MW-3                | 2013 - 2024              | 3 / 12                 | 14        | 0.26                              | --               | --               | NA                          | 0.221        | Yes          |
|                                        | MW-9                | 2013 - 2024              | 0 / 12                 | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-12               | 2013 - 2024              | 0 / 12                 | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-16S              | 2013 - 2024              | 0 / 12                 | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-18S              | 2013 - 2024              | 0 / 12                 | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-18D              | 2013 - 2024              | 0 / 12                 | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-20S              | 2013 - 2024              | 0 / 12                 | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-20M              | 2013 - 2024              | 0 / 12                 | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-143S             | 2013 - 2024              | 0 / 12                 | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-143D             | 2013 - 2024              | 0 / 12                 | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
| Eastern Site Perimeter (ESP)           | CW-1A               | 2013 - 2024              | 0 / 12                 | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | CW-2                | 2013 - 2024              | 0 / 12                 | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-2                | 2019 - 2024              | 0 / 6                  | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
| South-Central Site Area (SCSA)         | MW-14               | 2019 - 2024              | 0 / 6                  | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-65S              | 2019 - 2024              | 0 / 6                  | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-67S              | 2019 - 2024              | 0 / 6                  | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-67D              | 2019 - 2024              | 0 / 6                  | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-69               | 2019 - 2024              | 0 / 6                  | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-79               | 2019 - 2024              | 0 / 6                  | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-88               | 2021 - 2024              | 0 / 14                 | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
| Southern Property Boundary Area (SPBA) | MW-111              | 2019 - 2024              | 0 / 6                  | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-112              | 2019 - 2024              | 0 / 6                  | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-115              | 2019 - 2024              | 6 / 6                  | 14        | 28                                | Down             | --               | 2027                        | --           | --           |
|                                        | MW-22               | 2019 - 2024              | 0 / 6                  | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-108S             | 2019 - 2024              | 0 / 6                  | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-108D             | 2019 - 2024              | 0 / 6                  | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
| South Plume Area (SPA)                 | MW-165              | 2019 - 2024              | 0 / 6                  | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-166              | 2018 - 2024              | 0 / 31                 | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-167              | 2018 - 2024              | 0 / 31                 | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-168              | 2018 - 2024              | 0 / 30                 | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-43D              | 2019 - 2024              | 0 / 6                  | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
| Codorus Creek Levee Area               | Cole D              | 2019 - 2024              | 0 / 6                  | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | Cole Steel (MW-12)  | 2019 - 2024              | 0 / 6                  | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | GM-1D               | 2019 - 2024              | 0 / 6                  | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-110              | 2019 - 2024              | 0 / 6                  | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-150              | 2019 - 2024              | 0 / 6                  | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
| West Side of Codorus Creek             | MW-101S             | 2021 - 2024              | 0 / 14                 | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-101D             | 2021 - 2024              | 0 / 14                 | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
| Northern Site Perimeter (NSP)          | MW-148A (72.5-73)   | 2019 - 2024              | 0 / 6                  | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-148A (136-136.5) | 2019 - 2024              | 0 / 6                  | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-5                | 2021 - 2024              | 0 / 14                 | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-6                | 2021 - 2024              | 0 / 14                 | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-82               | 2019 - 2024              | 0 / 6                  | 14        | NA                                | --               | --               | Achieved                    | --           | --           |
|                                        | MW-186              | 2020 - 2024              | 0 / 5                  | 14        | NA                                | --               | --               | Achieved                    | --           | --           |

Notes:

MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)

Mann-Kendall (M-K) trend tests using USEPA ProUCL version 5.2 statistical software package (USEPA, 2022)

CC - Confidence Coefficient

M-K Trends were calculated for wells with a minimum of four detected concentrations

UCL95 - Upper Confidence Limit on the mean with 95% confidence; calculated for data sets without trend and a minimum of two detected concentrations

NA - Not Applicable

None - Insufficient statistical evidence of a significant trend at the specified CC

Up/Down - The direction of the Theil-Sen trend line fit to the data set

-- - Minimum number of detections not met for the applicable analysis

**Achieved** - The Theil-Sen trend line intersects the RSL within the sample collection period

**2035** - The year when the downward Theil-Sen trend line is projected to reach the RSL (concentration currently greater than RSL)

**2027** - The year when the upward Theil-Sen trend line is projected to reach the RSL (concentration currently less than RSL)

**Yes** - Calculated UCL95 of the data set is less than the RSL, indicating the RSL will not be exceeded in the future

**No** = Calculated UCL95 of the data set is greater than the RSL, indicating the RSL may be exceeded in the future

TABLE 3.1-11  
2024 Groundwater Monitored Natural Attenuation Analysis Results Summary  
Former Naval Ordnance Plant - York, PA

| Location at fYNOP                      | Well Identification | Trichloroethene (TCE)       |              | Tetrachloroethene (PCE)     |              | cis-1,2-Dichloroethene (cis12DCE) |              | Vinyl Chloride (VC)         |              | 1,1-Dichloroethane (11DCA)  |              | 1,1-Dichloroethene (11DCE)  |              | 1,2-Dichloroethane (12DCA)  |              | 1,1,1-Trichloroethane (111TCA) |              | Benzene                     |              | Methyl Tertiary-Butyl Ether (MTBE) |              |
|----------------------------------------|---------------------|-----------------------------|--------------|-----------------------------|--------------|-----------------------------------|--------------|-----------------------------|--------------|-----------------------------|--------------|-----------------------------|--------------|-----------------------------|--------------|--------------------------------|--------------|-----------------------------|--------------|------------------------------------|--------------|
|                                        |                     | Date Trend Line Reaches MCL | UCL95 < MCL? | Date Trend Line Reaches MCL | UCL95 < MCL? | Date Trend Line Reaches MCL       | UCL95 < MCL? | Date Trend Line Reaches MCL | UCL95 < MCL? | Date Trend Line Reaches MCL | UCL95 < RSL? | Date Trend Line Reaches MCL | UCL95 < MCL? | Date Trend Line Reaches MCL | UCL95 < MCL? | Date Trend Line Reaches MCL    | UCL95 < MCL? | Date Trend Line Reaches MCL | UCL95 < MCL? | Date Trend Line Reaches MCL        | UCL95 < RSL? |
| Northern Property Boundary Area (NPBA) | MW-3                | Achieved                    | --           | Achieved                    | --           | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | NA                                 | Yes          |
|                                        | MW-9                | Achieved                    | --           | Achieved                    | --           | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-12               | 2031 - Down                 | --           | Achieved                    | --           | 2024 - Up **                      | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-16S              | NA                          | No           | Achieved                    | --           | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-18S              | Achieved                    | --           | Achieved                    | --           | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-18D              | Achieved                    | --           | Achieved                    | --           | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-20S              | Achieved *                  | --           | Achieved                    | --           | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-20M              | NA                          | No           | 2134 - Up                   | --           | NA                                | Yes          | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-143S             | Achieved                    | --           | NA                          | Yes          | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-143D             | Achieved                    | --           | Achieved                    | --           | 2244 - Up                         | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
| Eastern Site Perimeter (ESP)           | CW-1A               | 2029 - Down                 | --           | Achieved                    | --           | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | CW-2                | Achieved                    | --           | Achieved                    | --           | NA                                | Yes          | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-2                | NA                          | Yes          | NA                          | No           | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
| South-Central Site Area (SCSA)         | MW-14               | Achieved                    | --           | NA                          | Yes          | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-65S              | Achieved                    | --           | NA                          | Yes          | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-67S              | Achieved                    | --           | NA                          | Yes          | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | NA                          | Yes          | Achieved                    | --           | NA                             | Yes          | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-67D              | Achieved                    | --           | NA                          | Yes          | NA                                | Yes          | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-69               | Achieved                    | --           | NA                          | Yes          | NA                                | Yes          | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-79               | Achieved                    | --           | Achieved                    | --           | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-88               | Achieved                    | --           | NA                          | No           | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-111              | NA                          | Yes          | Achieved                    | --           | NA                                | Yes          | Achieved                    | --           | Achieved                    | --           | NA                          | Yes          | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
| Southern Property Boundary Area (SPBA) | MW-112              | 2094 - Up                   | --           | NA                          | Yes          | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-115              | Achieved                    | --           | Achieved                    | --           | Achieved                          | --           | NA                          | No           | 2032 - Down                 | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | 2026 - Down                 | --           | 2027 - Down                        | --           |
|                                        | MW-22               | Achieved                    | --           | NA                          | No           | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-108S             | Achieved                    | --           | Achieved                    | --           | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-108D             | Achieved                    | --           | NA                          | Yes          | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-165              | Achieved                    | --           | Achieved                    | --           | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-166              | Achieved                    | --           | NA                          | No           | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
| South Plume Area (SPA)                 | MW-167              | Achieved                    | --           | Achieved                    | --           | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-168              | Achieved                    | --           | Achieved                    | --           | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-43D              | Achieved                    | --           | Achieved                    | --           | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | Cole D              | Achieved                    | --           | NA                          | No           | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | Cole Steel (MW-12)  | NA                          | No           | NA                          | Yes          | NA                                | Yes          | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | GM-1D               | Achieved                    | --           | NA                          | No           | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
| Codorus Creek Levee Area               | MW-110              | Achieved                    | --           | 2032 - Down                 | --           | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-150              | 2035 - Down                 | --           | Achieved                    | --           | NA                                | Yes          | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-101S             | NA                          | Yes          | 2030 - Up                   | --           | NA                                | Yes          | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
| West Side of Codorus Creek             | MW-101D             | Achieved                    | --           | Achieved                    | --           | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | NA                          | Yes          | Achieved                           | --           |
|                                        | MW-148A (72.5-73)   | Achieved                    | --           | Achieved                    | --           | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-148A (136-136.5) | Achieved                    | --           | Achieved                    | --           | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
| Northern Site Perimeter (NSP)          | MW-5                | NA                          | Yes          | Achieved                    | --           | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-6                | Achieved                    | --           | Achieved                    | --           | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-82               | Achieved                    | --           | NA                          | Yes          | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |
|                                        | MW-186              | Achieved                    | --           | Achieved                    | --           | Achieved                          | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                    | --           | Achieved                       | --           | Achieved                    | --           | Achieved                           | --           |

Notes:

MCL - United States Environmental Protection Agency Maximum Contaminant Level (November 2024)

RSL - United States Environmental Protection Agency Regional Screening Level for residential tap water (TR = 1x10-6 and THQ = 1.0) (November 2024)

UCL95 - Upper Confidence Limit on the mean with 95% confidence; calculated for data sets without trend and a minimum of two detected concentrations

NA - Not Applicable (insufficient statistical evidence of a significant trend from Mann-Kendall trend test)

Up/Down - The direction of the Theil-Sen trend line fit to the data set

-- - UCL95 not calculated for data sets with a trend

\* - Theil-Sen line is trending down and predicted to intersect the MCL within the sample collection period; however, the measured concentration in 2024 is greater than the MCL

\*\* - Theil-Sen line is trending up and predicted to intersect the MCL within the sample collection period; however, the measured concentration in 2024 is greater than the MCL

Achieved - The Theil-Sen trend line intersects the MCL within the sample collection period

2026 - The year when the downward Theil-Sen trend line is projected to reach the MCL (concentration currently greater than MCL)

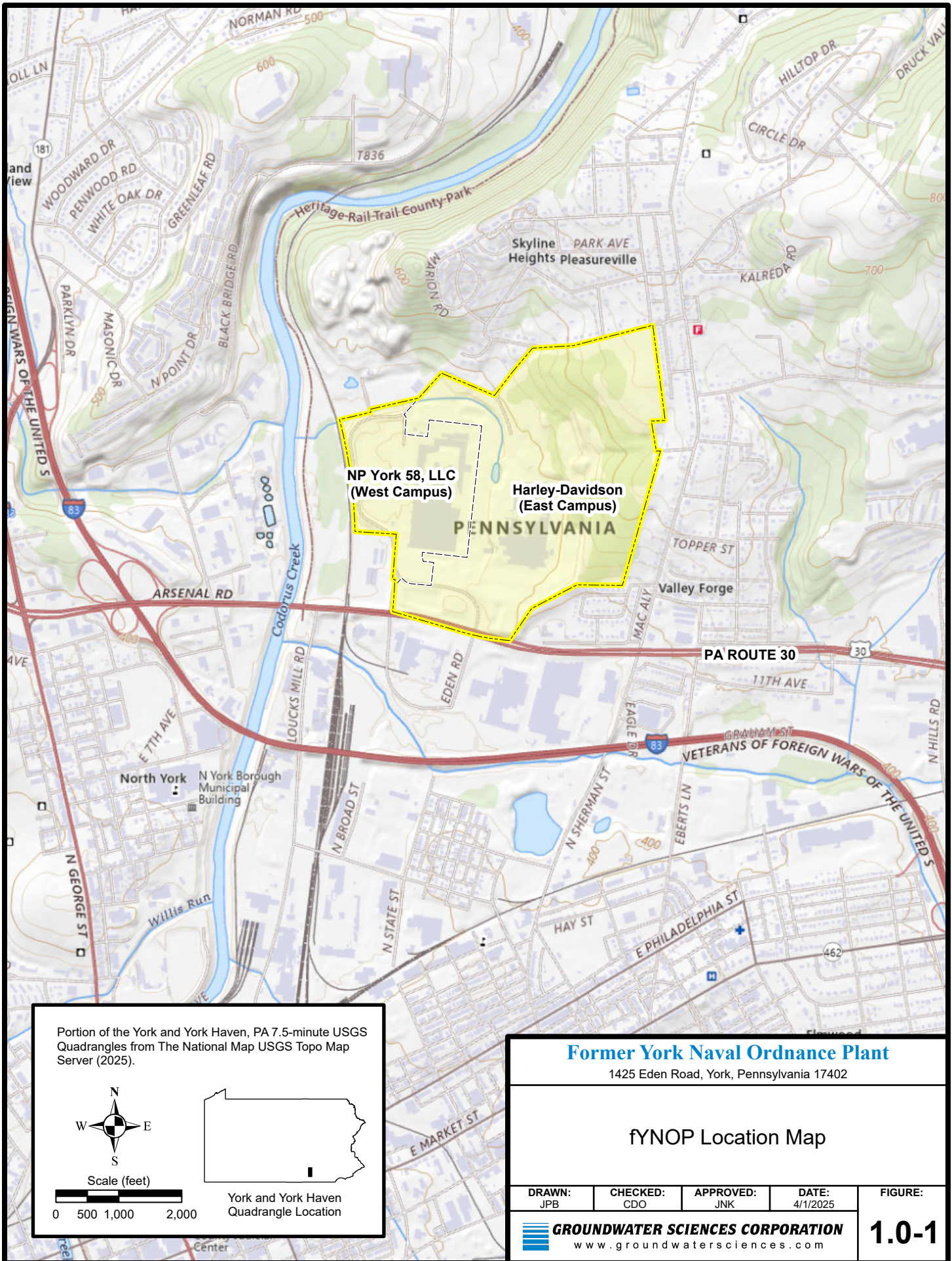
2094 - The year when the upward Theil-Sen trend line is projected to reach the MCL (concentration currently less than MCL)

Yes - Calculated UCL95 of the data set is less than the MCL, indicating the MCL will not be exceeded in the future

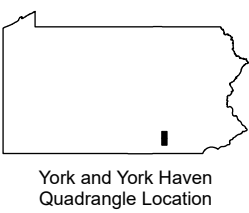
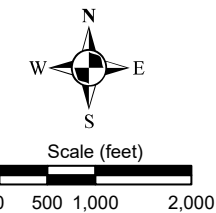
No = Calculated UCL95 of the data set is greater than the MCL, indicating the MCL may be exceeded in the future



## Figures



Portion of the York and York Haven, PA 7.5-minute USGS Quadrangles from The National Map USGS Topo Map Server (2025).



York and York Haven  
Quadrangle Location

**Former York Naval Ordnance Plant**

1425 Eden Road, York, Pennsylvania 17402

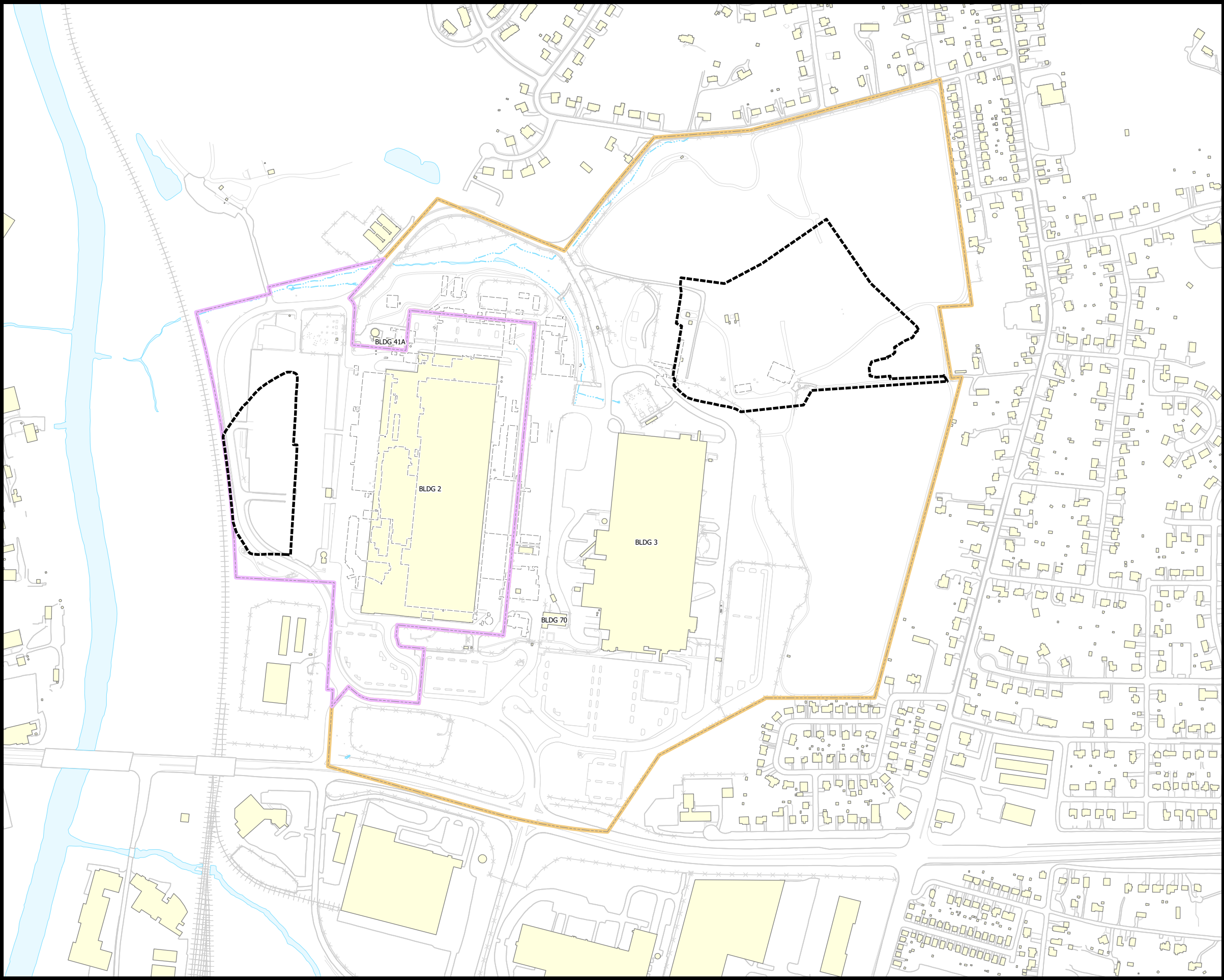
**fYNOP Location Map**

|               |                 |                  |                   |         |
|---------------|-----------------|------------------|-------------------|---------|
| DRAWN:<br>JPB | CHECKED:<br>CDO | APPROVED:<br>JNK | DATE:<br>4/1/2025 | FIGURE: |
|---------------|-----------------|------------------|-------------------|---------|

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**1.0-1**





**LEGEND**

- Military Munitions Response Program (MMRP) Areas
- NP York 58, LLC Property Boundary (West Campus)
- Harley-Davidson Property Boundary (East Campus)
- Existing Building
- Building Demolished/Slab Removed
- Existing Stream
- Existing Water Feature
- Road, Curb or Walkway
- Fenceline
- Railroad

Scale (feet)  
0 125 250 500

**Former York Naval Ordnance Plant**

1425 Eden Road, York, Pennsylvania 17402

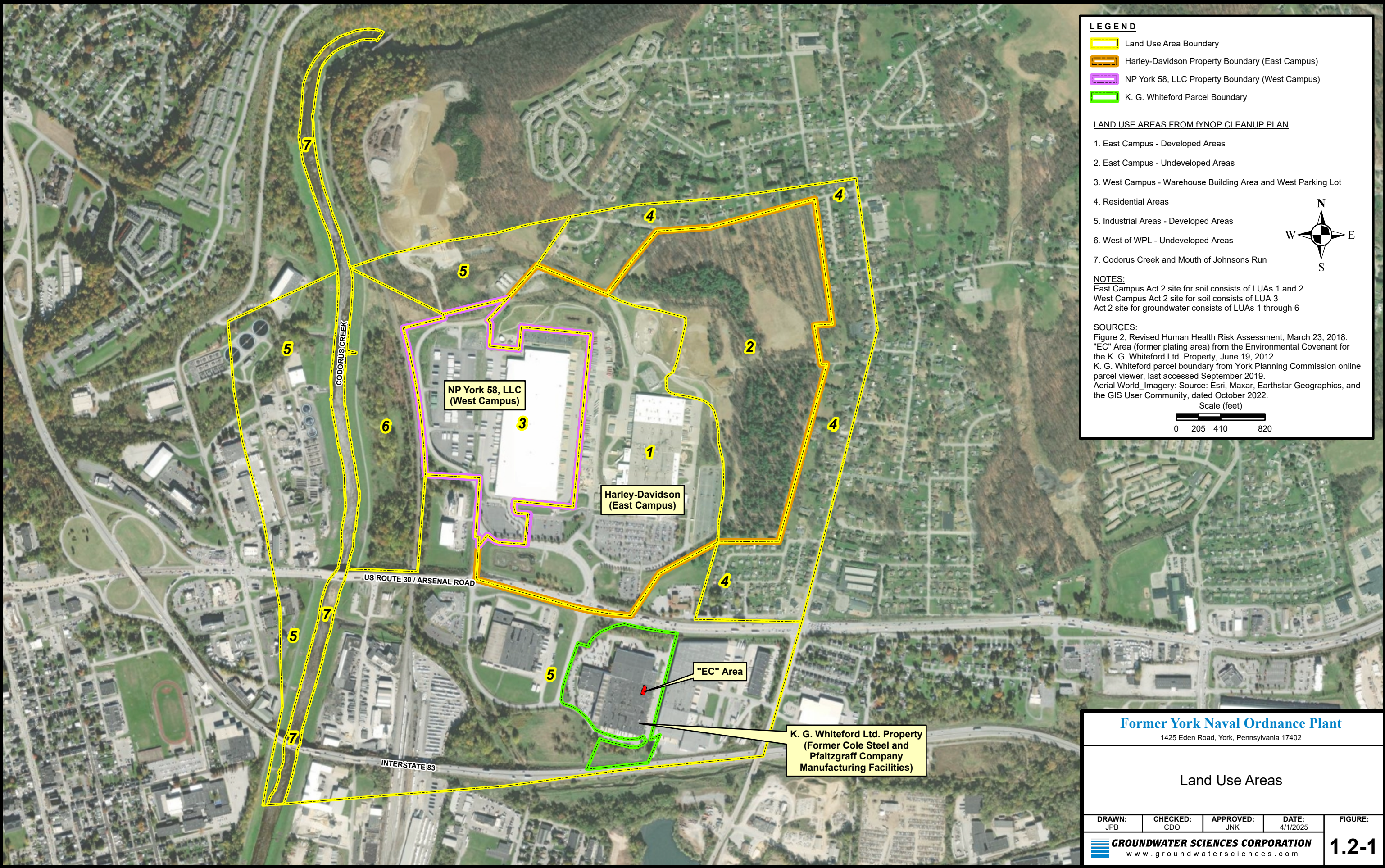
**MMRP Areas**

|                      |                        |                         |                          |                |
|----------------------|------------------------|-------------------------|--------------------------|----------------|
| <b>DRAWN:</b><br>JPB | <b>CHECKED:</b><br>CDO | <b>APPROVED:</b><br>JNK | <b>DATE:</b><br>4/1/2025 | <b>FIGURE:</b> |
|----------------------|------------------------|-------------------------|--------------------------|----------------|

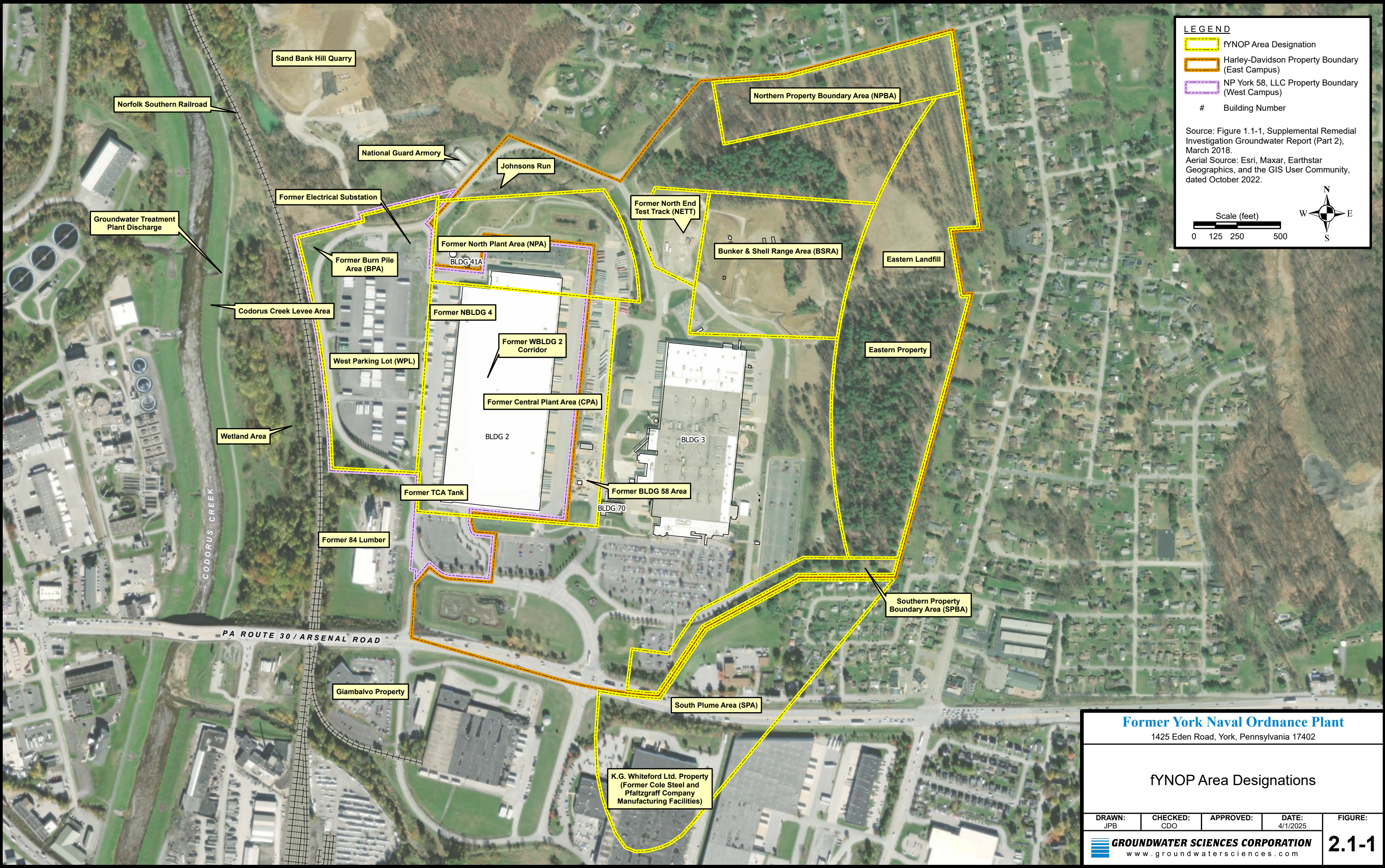
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**1.1-1**

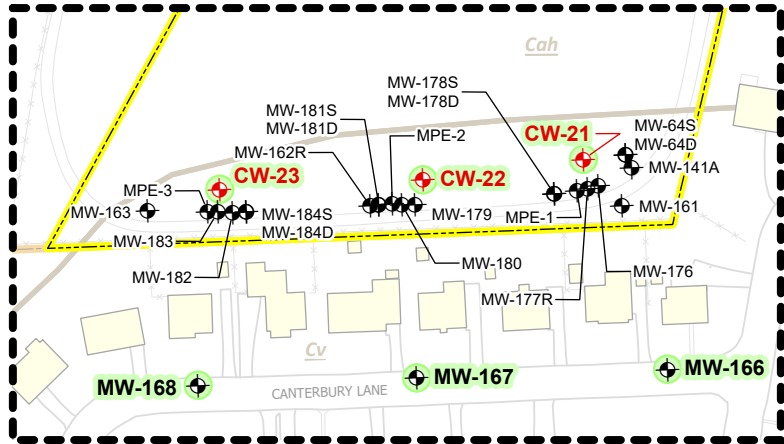
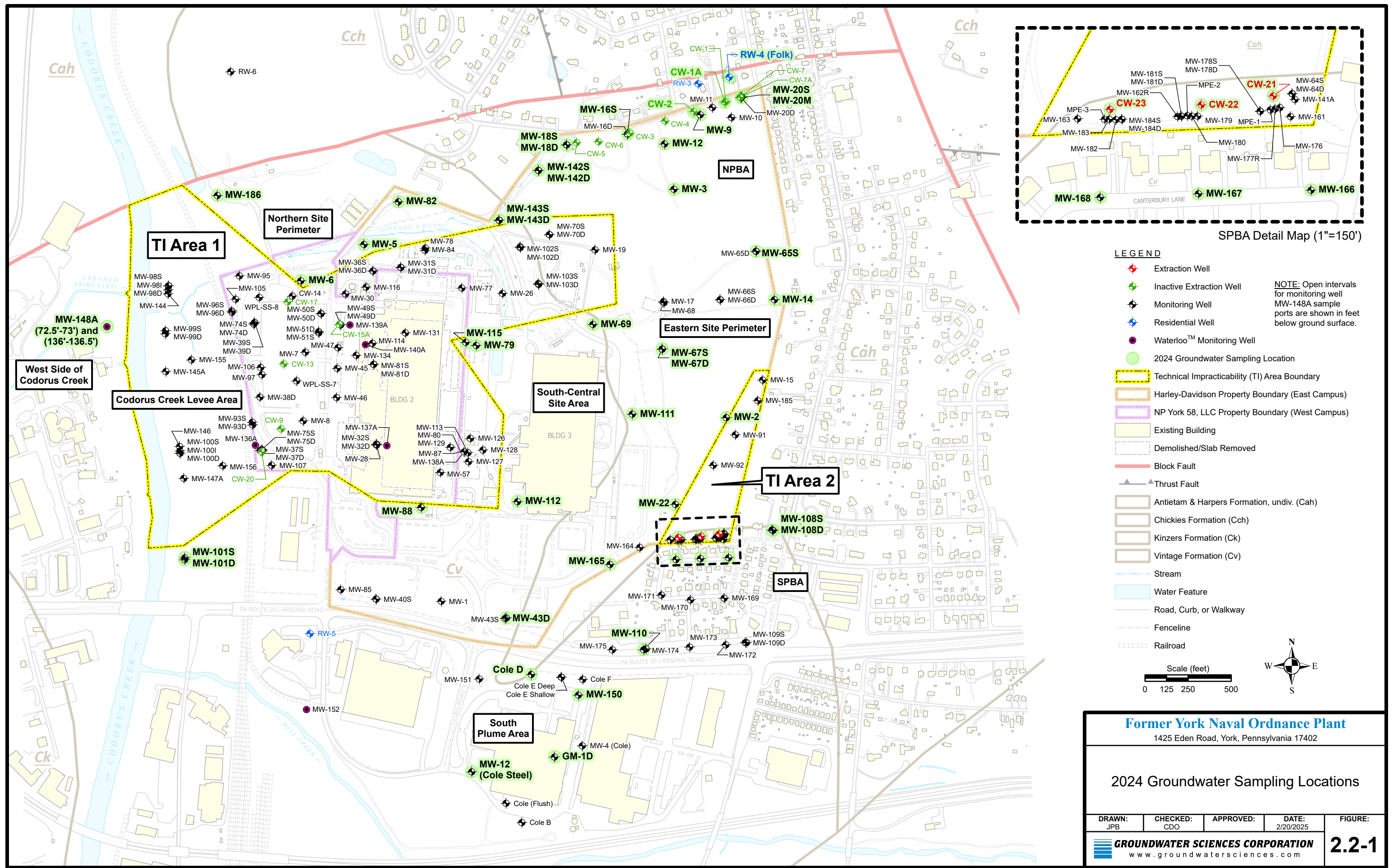












**LEGEND**

- Extraction Well
- Inactive Extraction Well
- Monitoring Well
- Residential Well
- Waterloo™ Monitoring Well
- 2024 Groundwater Sampling Location
- Technical Impracticability (TI) Area Boundary
- Harley-Davidson Property Boundary (East Campus)
- NP York 58, LLC Property Boundary (West Campus)
- Existing Building
- Demolished/Slab Removed
- Block Fault
- Thrust Fault
- Antietam & Harpers Formation, undiv. (Cah)
- Chickies Formation (Cch)
- Kinzers Formation (Ck)
- Vintage Formation (Cv)
- Stream
- Water Feature
- Road, Curb, or Walkway
- Fenceline
- Railroad

**NOTE:** Open intervals for monitoring well MW-148A sample ports are shown in feet below ground surface.

Scale (feet): 0 125 250 500

North Arrow

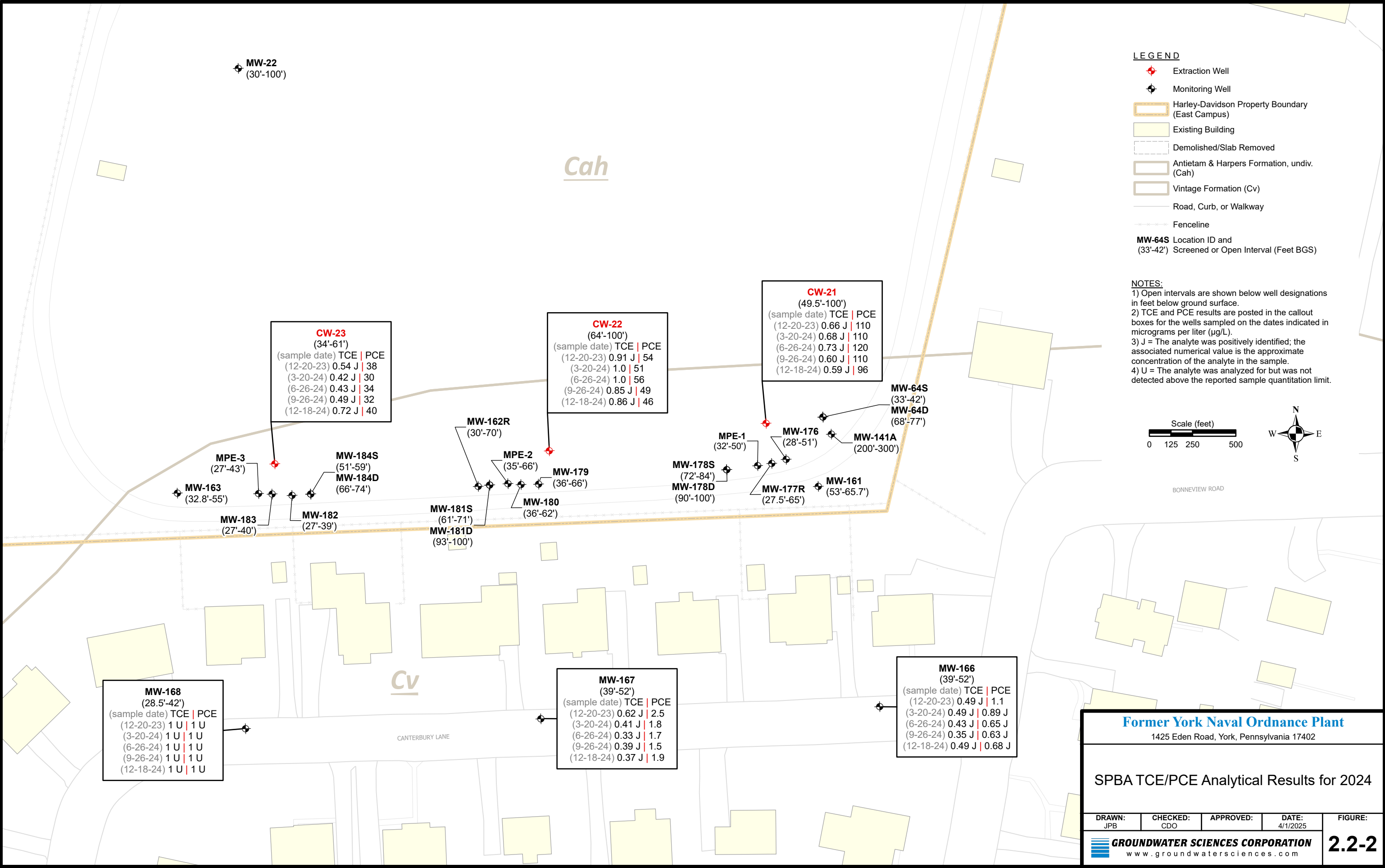
**Former York Naval Ordnance Plant**  
1425 Edens Road, York, Pennsylvania 17402

**2024 Groundwater Sampling Locations**

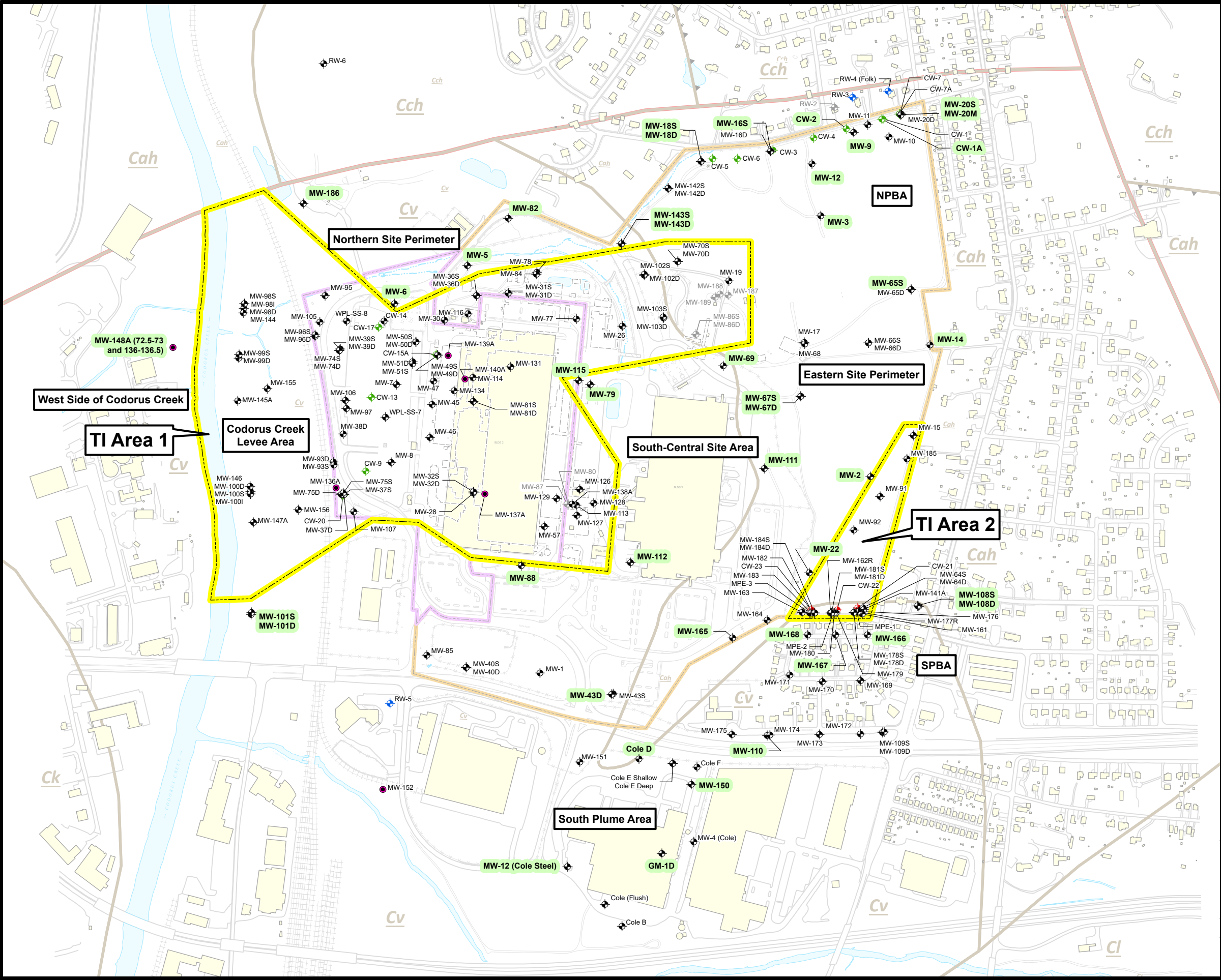
|               |                 |           |                    |         |
|---------------|-----------------|-----------|--------------------|---------|
| DRAWN:<br>JPB | CHECKED:<br>CDO | APPROVED: | DATE:<br>2/20/2025 | FIGURE: |
|---------------|-----------------|-----------|--------------------|---------|

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**2.2-1**

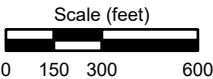






- LEGEND**
- Active Extraction Well
  - Inactive Extraction Well
  - Monitoring Well
  - Residential Well
  - Waterloo™ Monitoring Well
  - Abandoned Well
  - Technical Impracticability (TI) Area Boundary
  - Existing Building
  - Demolished/Slab Removed
  - Harley-Davidson Property Boundary (East Campus)
  - NP York 58, LLC Property Boundary (West Campus)
  - Block Fault
  - Thrust Fault
  - Antietam & Harpers Formation, undiv. (Cah)
  - Chickies Formation (Cch)
  - Ledger Formation (CI)
  - Kinzers Formation (Ck)
  - Vintage Formation (Cv)
  - Stream
  - Water Feature
  - Road, Curb, or Walkway
  - Fenceline
  - Railroad
  - MW-112 Groundwater MNA Area Sampling Locations

NOTE: Open intervals for monitoring well MW-148A sample ports are shown in feet below ground surface.

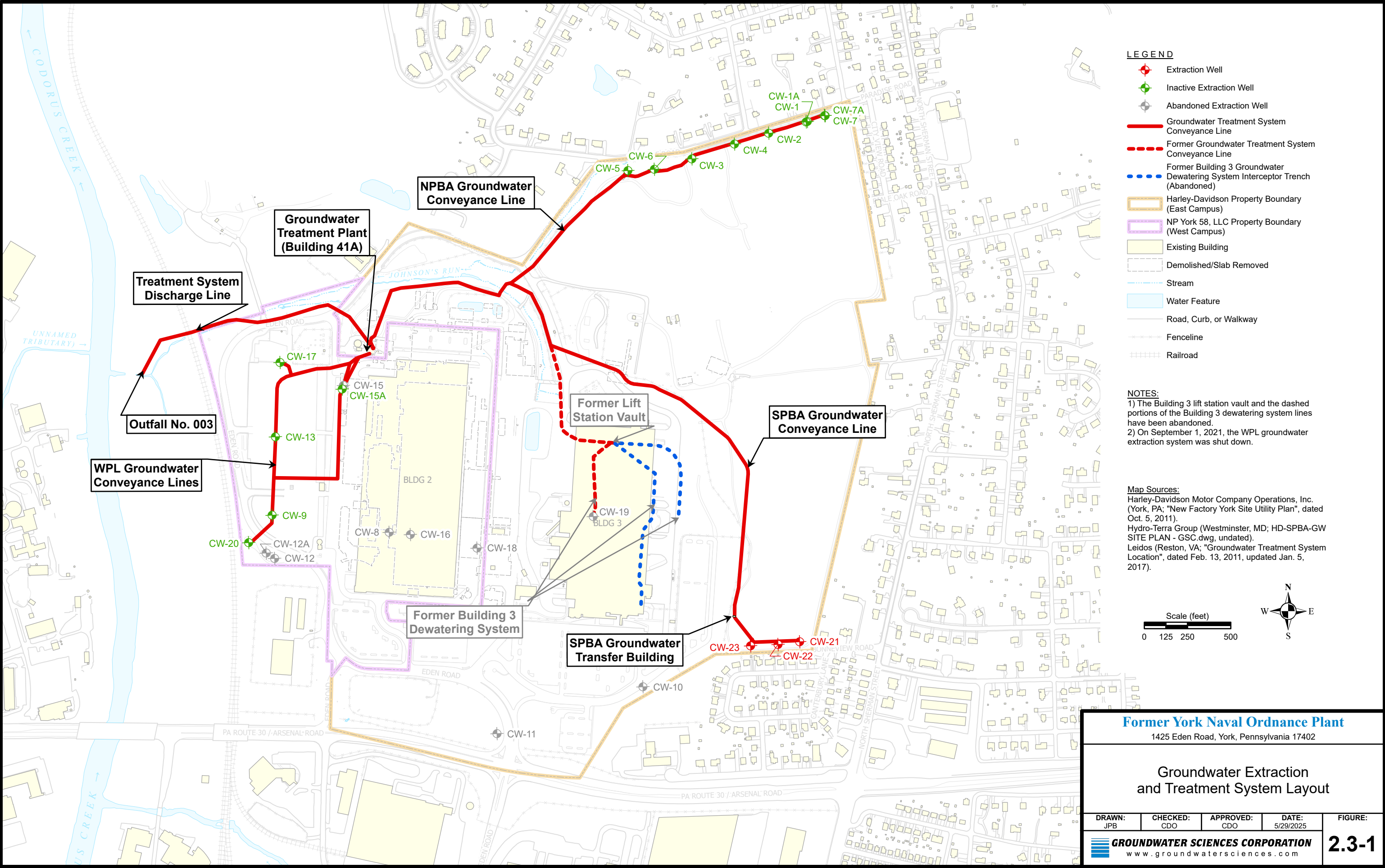


**Former York Naval Ordnance Plant**  
1425 Eden Road, York, Pennsylvania 17402

**MNA Area Sampling Locations**

|                                                                 |                 |                  |                    |         |
|-----------------------------------------------------------------|-----------------|------------------|--------------------|---------|
| DRAWN:<br>JPB                                                   | CHECKED:<br>CDO | APPROVED:<br>JNK | DATE:<br>5/29/2025 | FIGURE: |
| GROUNDWATER SCIENCES CORPORATION<br>www.groundwatersciences.com |                 |                  |                    | 2.2-3   |





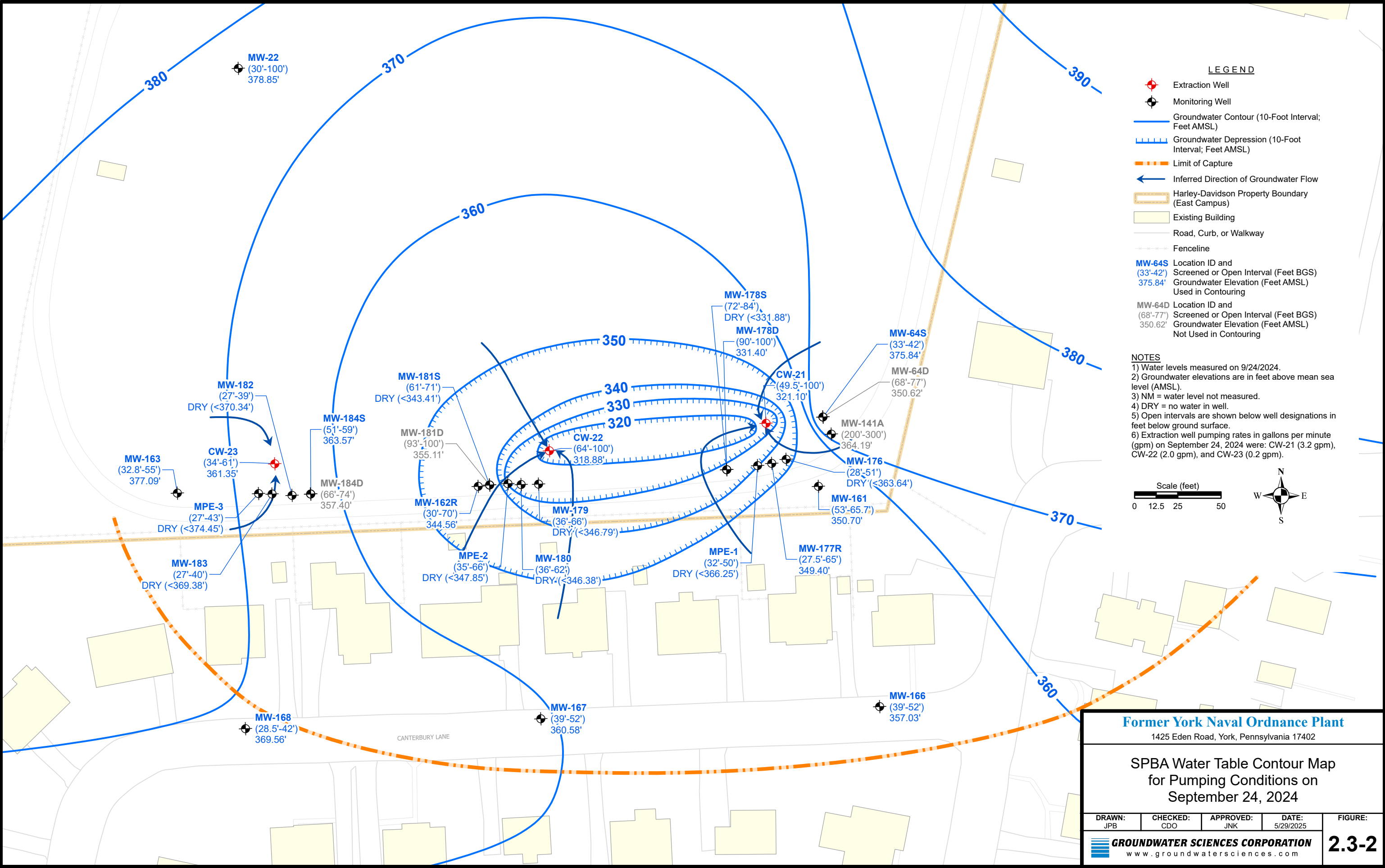


Figure 2.3-3  
SPBA Water Level Elevation Tracking - CW-21 Area Wells (Pumping Conditions)  
Former York Naval Ordnance Plant

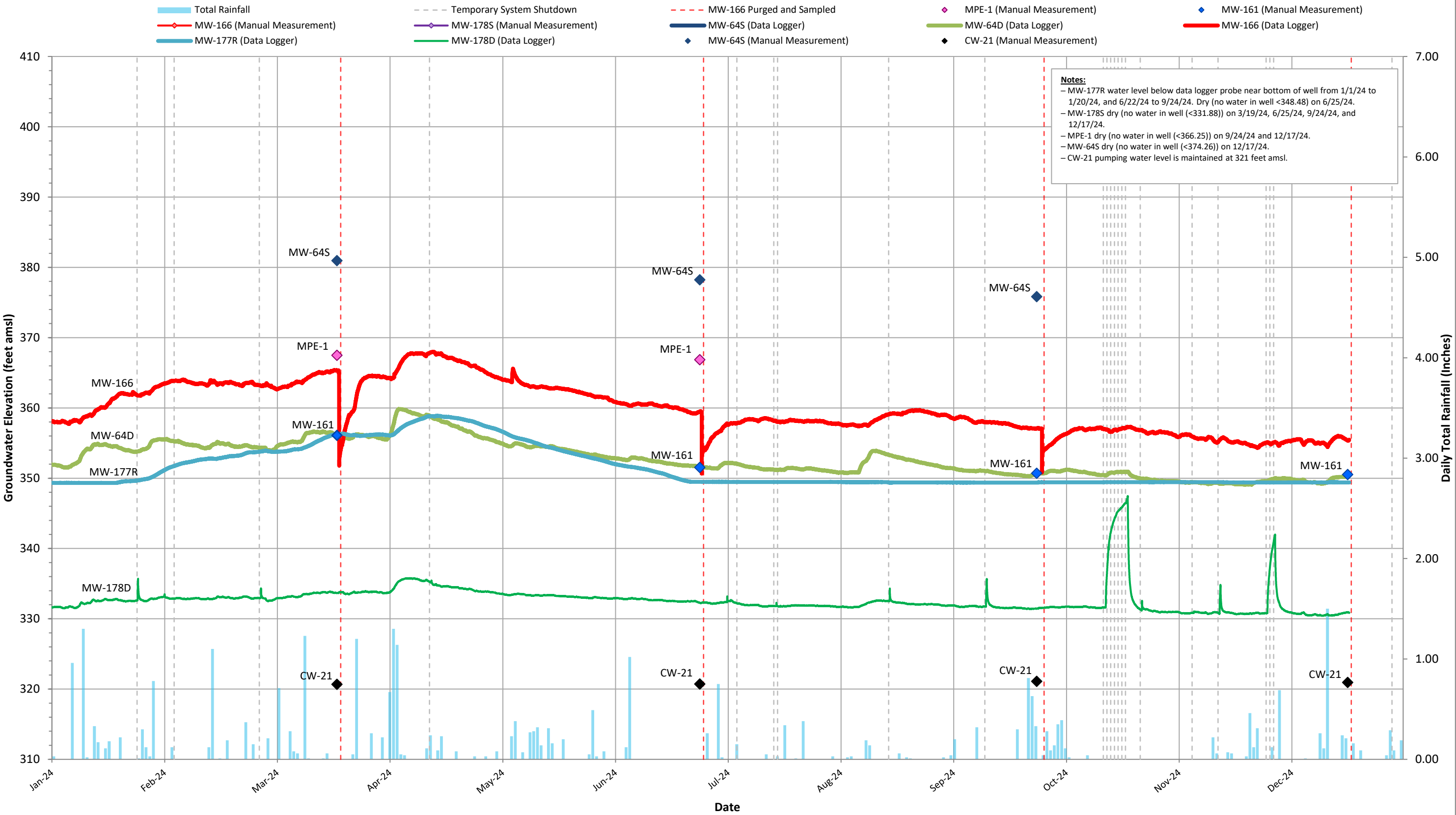


Figure 2.3-4  
SPBA Water Level Elevation Tracking - CW-22 Area Wells (Pumping Conditions)  
Former York Naval Ordnance Plant

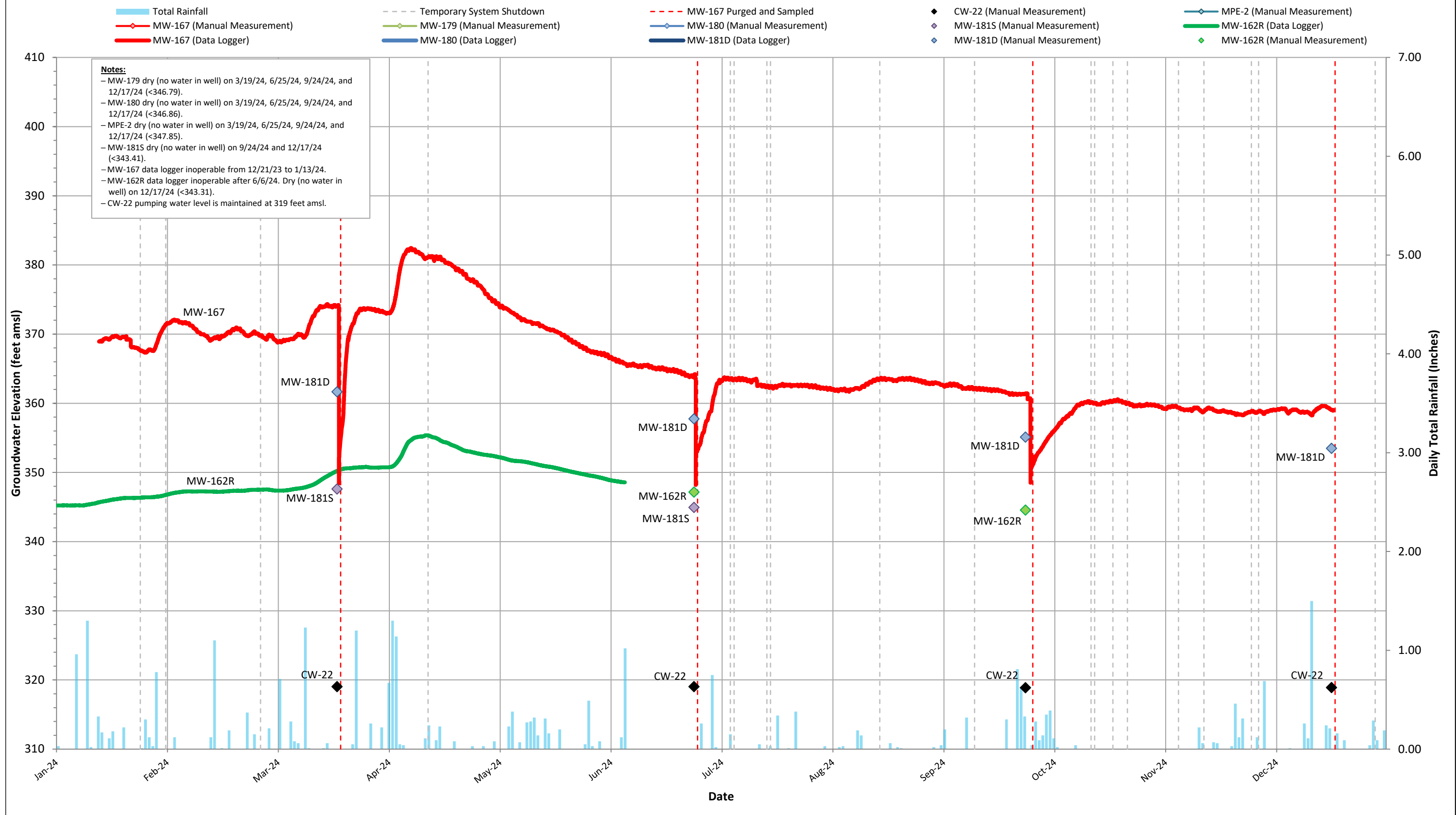
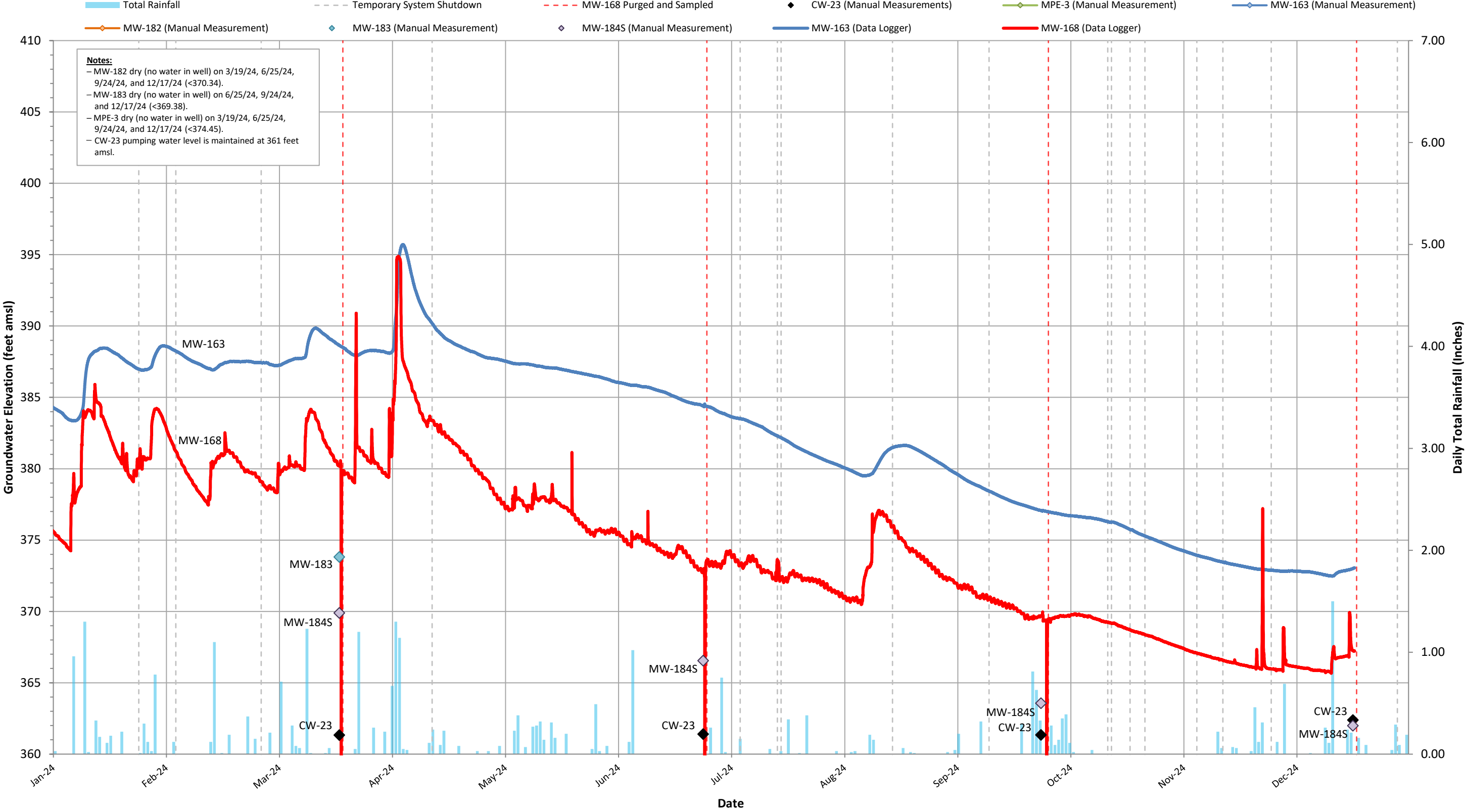
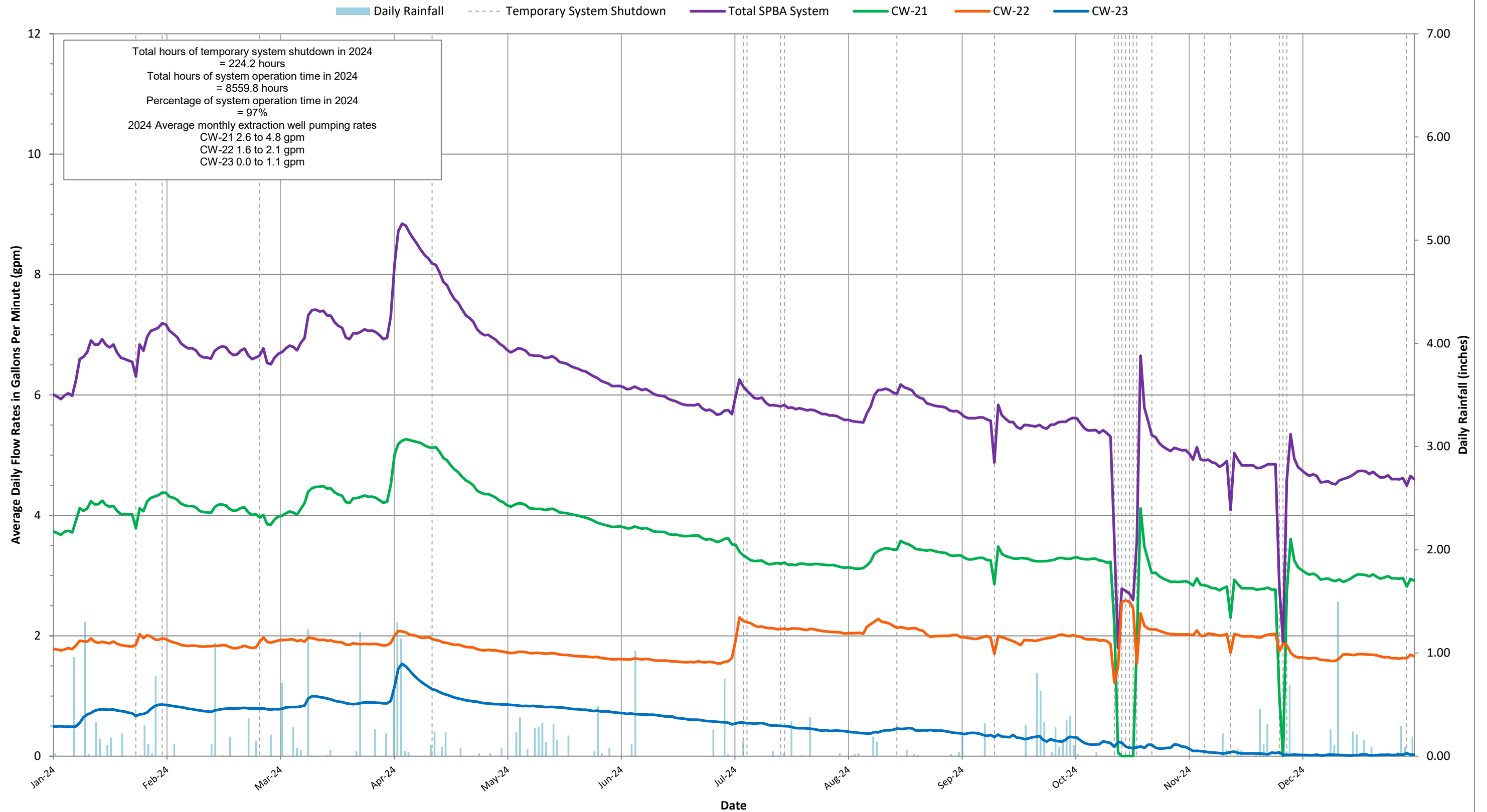




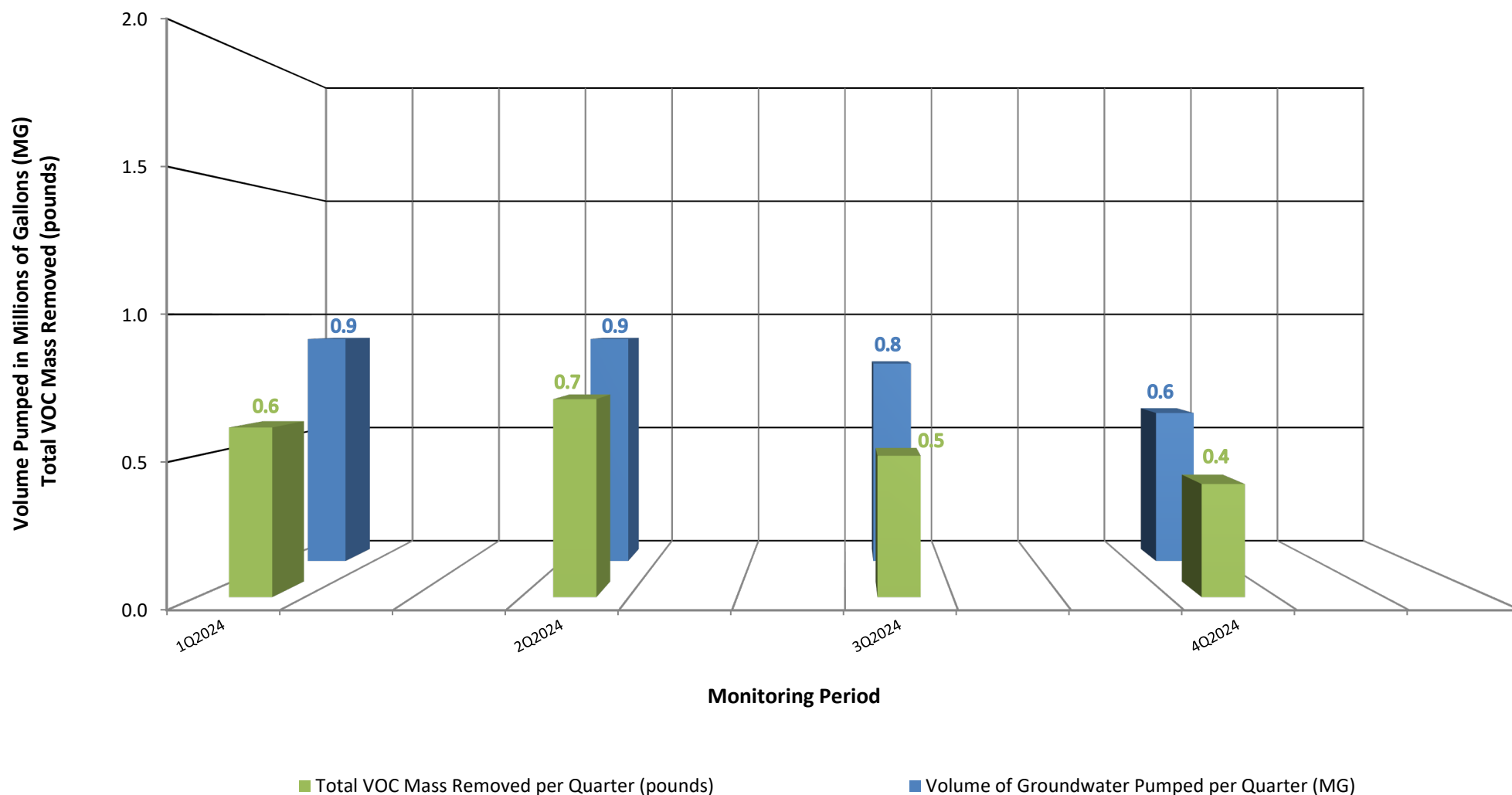
Figure 2.3-5  
SPBA Water Level Elevation Tracking - CW-23 Area Wells (Pumping Conditions)  
Former York Naval Ordnance Plant



**Figure 2.3-6**  
**SPBA Groundwater Extraction System Average Daily Flow Rates for January through December 2024**  
**Former York Naval Ordnance Plant - York, PA**

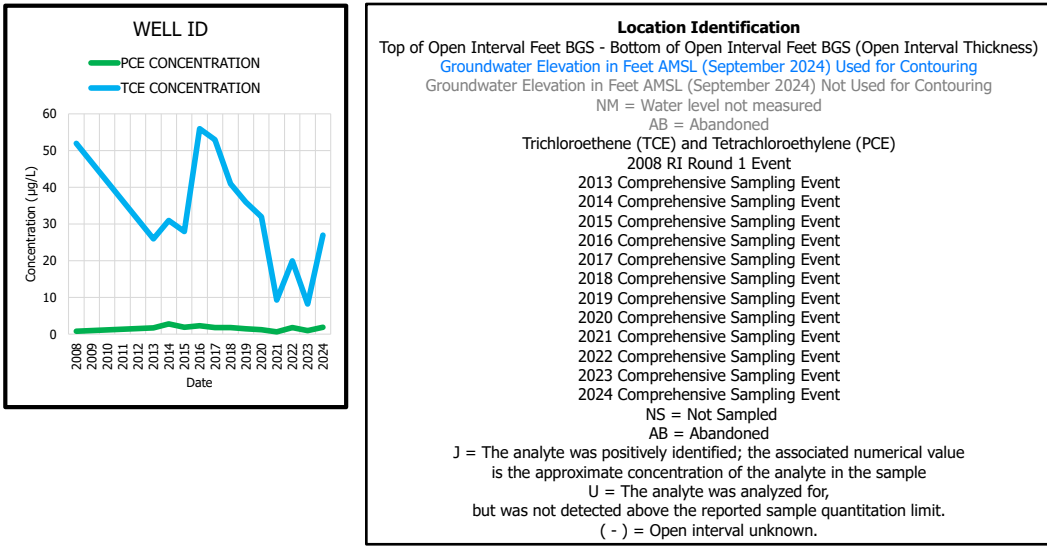
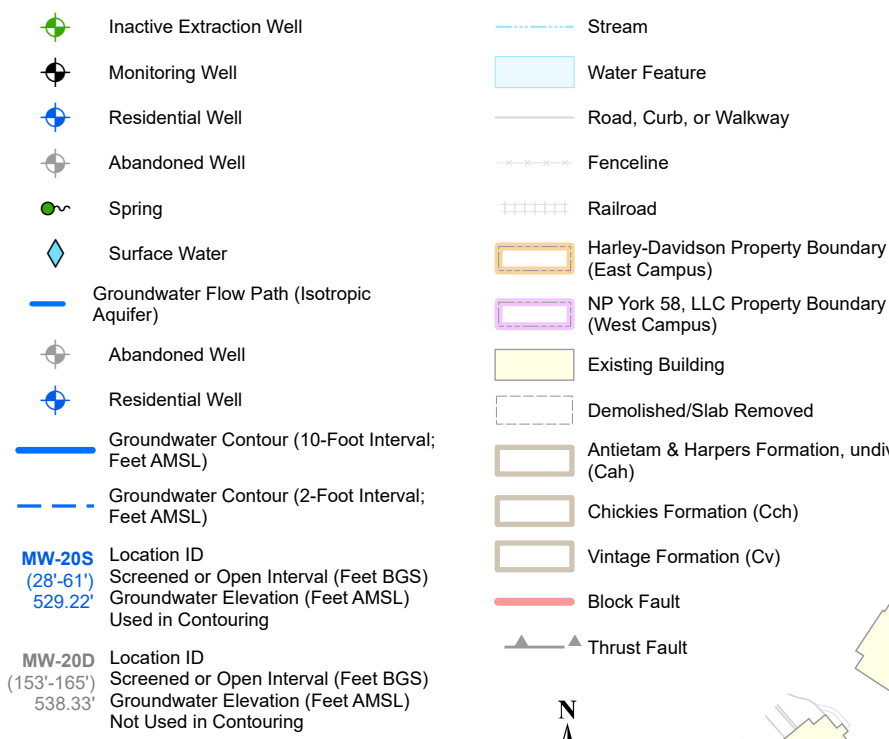


**Figure 2.3-7**  
**SPBA Remedial Action Performance Data for January through December 2024**  
**Former York Naval Ordnance Plant - York, PA**





LEGEND



**Scale (feet)**  
 0 50 100 150 300

**Scale (feet)**  
 0 50 100 150 300

**Scale (feet)**  
 0 50 100 150 300

**Scale (feet)**  
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**Scale (feet)**  
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**Scale (feet)**  
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**Scale (feet)**  
 0 50 100 150 300

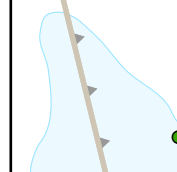
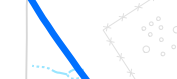
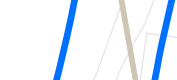
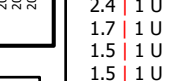
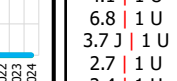
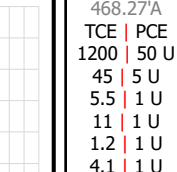
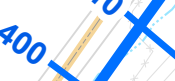
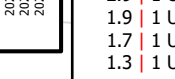
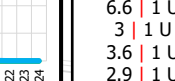
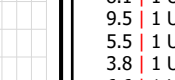
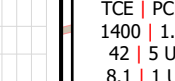
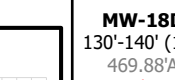
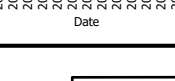
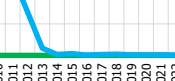
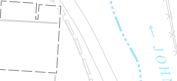
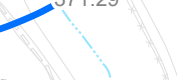
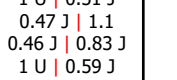
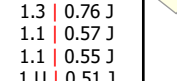
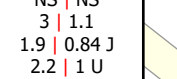
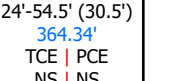
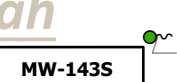
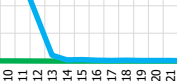
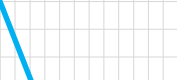
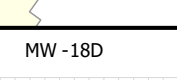
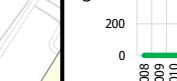
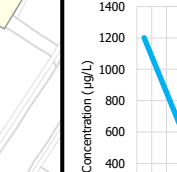
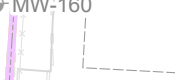
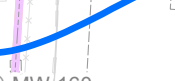
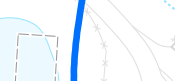
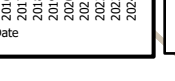
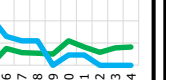
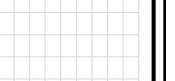
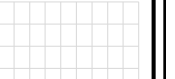
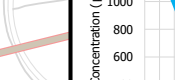
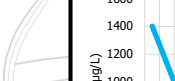
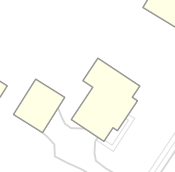
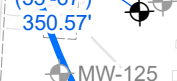
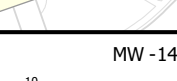
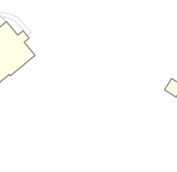
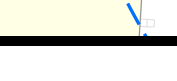
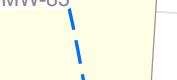
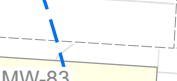
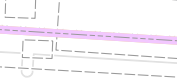
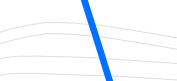
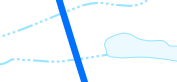
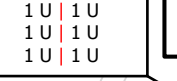
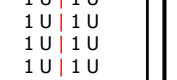
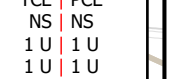
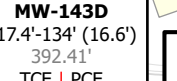
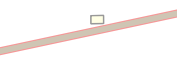
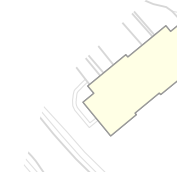
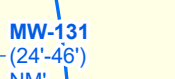
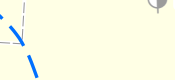
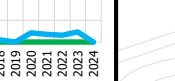
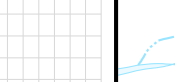
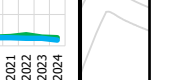
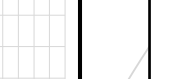
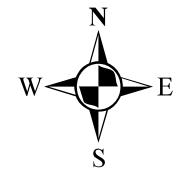
**Scale (feet)**  
 0 50 100 150 300

**Scale (feet)**  
 0 50 100 150 300

**Scale (feet)**  
 0 50 100 150 300

**Scale (feet)**  
 0 50 100 150 300

**Scale (feet)**  
 0 50 100 150 300

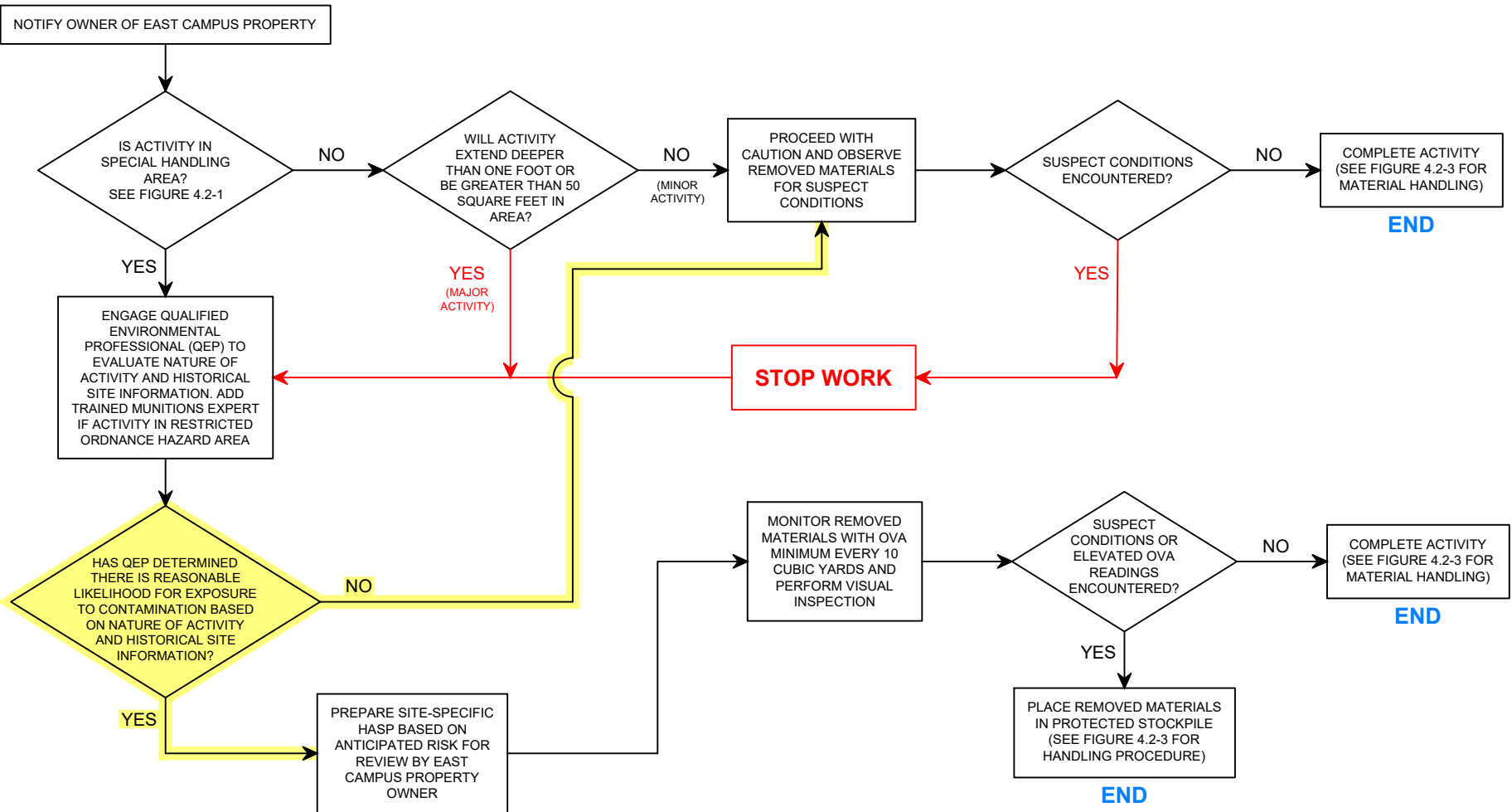








## START



### NOTES:

- ① CONSTRUCTION MATERIALS AND OTHER INHERENTLY WASTE-LIKE MATERIALS SHALL BE SEGREGATED FROM SOIL-LIKE MATERIAL AND STAGED SEPARATELY FOR HANDLING (SEE FIGURE 4.2-3).
- ② WATER GENERATED DURING INTRUSIVE ACTIVITY SHOULD BE PROPERLY CONTAINED FOR TREATMENT OR DISPOSAL, AS DISCUSSED IN SECTION 4.2.2.2 OF PRCP.
- ③ OVA: ORGANIC VAPOR ANALYZER
- ④ SUSPECT CONDITIONS: PRESENCE OF ODORS, STAINING/DISCOLORATION, OR NON SOIL-LIKE MATERIALS.

## Former York Naval Ordnance Plant

1425 Eden Road, York, Pennsylvania 17402

### Proposed Amendment to Post-Remediation Care Plan Intrusive Activity Decision Flowchart

DRAWN:  
JPB

CHECKED:  
CDO/JNK

APPROVED:

DATE:  
3/25/25

FIGURE:



**GROUNDWATER SCIENCES CORPORATION**  
www.groundwatersciences.com

# 7.2-1

## Plates











# Appendix A

## Laboratory Data Quality Assessment and Validation Report\*

*\* - in portable document format (PDF) on the fYNOP public website at  
<https://yorksiteremedy.com>*



## Appendix B

### Groundwater and Surface Water Sampling Documentation\*

*\* - in portable document format (PDF) on the fYNOP public website at  
<https://yorksiteremedy.com>*

## Appendix C

### Laboratory Analytical Reports for 2024 Samples\*

*\* - in portable document format (PDF) on the fYNOP public website at  
<https://yorksiteremedy.com>*

## Appendix D

### SPBA Groundwater Extraction Pumping Data\*

*\* - in portable document format (PDF) on the fYNOP public website at  
<https://yorksiteremedy.com>*

# **Appendix E**

## **Chemistry Graphs for Wells Outside the TI Area 1 Boundary**



## Appendix F

### Statistical Trend Analysis Graphs and Outputs\*

*Note: Statistically significant trends were determined using the Theil-Sen method (red line on graphs). The OLS regression method was not used for the trend analysis (dark blue line on graphs).*

*\* - in portable document format (PDF) on the fYNOP public website at <https://yorksiteremediy.com>*

## Appendix G

### Documentation for Annual PRCP Monitoring and Maintenance Activities

*\* - in portable document format (PDF) on the fYNOP public website at  
<https://yorksiteremedy.com>*

## Appendix H

### Groundwater Extraction and Treatment System Annual Operations Report for the Period of January 1 through December 31, 2024\*

\* - in portable document format (PDF) on the fYNOP public website at  
<https://yorksiteremediation.com>

## Appendix I

### Notifications Regarding Potential Exposure to Utility Workers



## Appendix J

### Proposed Amendment to Intrusive Activity Procedure