Paden City 2023 Public Drinking Water Event

Questions & Answers

Paden City, West Virginia
U.S. EPA Region 3

Note: EPA prepared this Q&A archive containing responses to past questions asked by the public about the Summer 2023 impact to drinking water in Paden City. This document was updated as the water situation progressed and has now been resolved. As such, this version (February 29th 2024) is the final iteration of this Q&A document. Past versions include:

November 6th, 2023

September 8th, 2023

August 25th, 2023

Archived versions of the Paden City 2023 Public Drinking Water Event Q&A document can be found here: https://cumulis.epa.gov/supercpad/SiteProfiles/index.cfm?fuseaction=second.scs&id=0304985&doc=Y&colid=39569&region=03&type=SC

Some of the questions have been edited and/or reformatted for brevity and clarity. Similar or duplicate questions were consolidated into one question.

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Paden City 2023 Public Drinking Water Event - Questions & Answers

Last Updated: February 29th, 2024

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Question 1: The residents of Paden City want more transparency on what happened. How is information being communicated to the community?

EPA recognizes the importance of clear communication with the community and strives to provide accurate information based on what can be verified. Various agencies were involved in responding to the Paden City drinking water situation. We recognize the community has concerns and EPA wants to assure Paden City that we are working to share information as quickly as possible. The West Virginia Department of Health (WVDH), formerly known as the West Virginia Department of Health and Human Services, is the primacy agency for the drinking water program in the state of West Virginia. An entity with primacy is the agency with primary responsibility for implementing the Safe Drinking Water Act (SDWA).

We want to assure you that EPA responded immediately upon receiving our preliminary results on August 15th, 2023 to inform the Town and WVDH. EPA posted updates on our Site Profile Page as they became available, which can be accessed at www.epa.gov/superfund/padencitygroundwater. EPA sent out alerts through our email contact list. You can sign up for our contact list by emailing Eric Pollard (Pollard.Eric@epa.gov) or John Brakeall (Brakeall.John@epa.gov). Additionally, EPA updated this Q&A document regularly as the situation progressed.

Paden City is distributing information through the Town's Facebook page and OneCall system. WVDH informed EPA that Do Not Consume notices were mailed to Paden City residents. The OneCall system is voluntary, and all Town residents are encouraged to sign up for the system in order to receive timely alerts regarding water system updates. Please contact the Town at (304) 337-8581 for instructions for how to sign up for OneCall system.

Last Updated: 2/29/2024

Question 2: How was the problem of tetrachloroethylene (PCE) in the drinking water discovered? How did EPA become aware that there was a problem?

As part of the on-going Remedial Investigation (RI) for the Paden City Groundwater Superfund Site, EPA collected split samples of the public drinking water with the Town on July 26-27, 2023. Approximately 20 locations around town determined to be representative of the distribution system were sampled. The sampling was performed in response to multiple requests from the community to ensure the air stripper was effectively addressing PCE contamination. EPA received the preliminary results from the laboratory on August 15th, 2023 reporting detections of PCE exceeding EPA's Maximum Contaminant Level (MCL). Upon receiving the results on August 15th, EPA's Superfund program took immediate action to notify our Water and Enforcement Divisions, WVDH, West Virginia Department of Environmental Protection (WVDEP), and the Town of Paden City in order to begin the process of notifying the community and ensuring that the Town addressed the situation. EPA learned of the quarterly compliance sample collected by the Paden City Water system on August 16, 2023, after finding the results on WVDH's Online Drinking Water Viewer. The report on WVDH's Online Drinking Water Viewer states the data was reported to the State on August 8th, 2023. EPA has been unable to verify the specific chain of events regarding when the system became aware of the quarterly sample results.

Last Updated: 11/6/2023

Question 3: What was the cause of the problem? Doesn't the air stripper remove the PCE contamination from our drinking water?

The following information was conveyed to EPA by the Town of Paden City. The issue, which resulted in the distribution of contaminated drinking water to customers, was a faulty valve in the emergency by-pass system. The emergency by-pass system was activated during an electrical issue in 2023. EPA was informed that the electrical issue, which was a blown fuse in the air stripper's control panel, caused the air stripper to go offline for a short period of time. The operator indicated that, during that time, he made the decision to utilize the by-pass system to reroute water past the air stripper directly into the treatment plant so that water would be available for fire suppression, should it be needed. When the electrical issue was fixed, the valve in the bypass system was closed to direct water back through the air stripper. However, the valve in the bypass-system was allegedly faulty and allowed some untreated water to continue to bypass the air stripper.

EPA and WVDH are still working to determine the exact timeline of events. EPA has been informed that the bypass-system was eliminated from the system which should prevent water from being rerouted around the air stripper in the future. When functioning properly, air stripping is an effective way of removing PCE contamination from drinking water.

Last Updated: 11/6/2023

Question 4: What dates were samples collected by EPA? What dates were samples collected by the Town? What are the test results of the samples and do they exceed the MCL of 5 micrograms per liter (ug/L)?

On July 19th, 2023, the Town collected their routine quarterly sample required by the SDWA. EPA was not aware this sample was collected until results were accessed on WVDH's Online Drinking Water Viewer on August 16th, 2023. The result of the Town's routine quarterly sample was 30.3 ug/L, exceeding the PCE MCL of 5 ug/L.

On July 26th -27th, 2023, both EPA and the Town collected samples representative of the distribution system together in a split sampling event. The split sampling event was performed as part of the on-going RI for the Paden City Groundwater Superfund Site in response to multiple requests from the community. The purpose of the split sampling event was to ensure that the Town's drinking water is safe, as well as to compare results of the Town's sampling with EPA's. EPA's preliminary results, which have since been validated, reported detections of PCE in the samples ranging from 14 ug/L to 39 ug/L, exceeding the MCL of 5 ug/L. EPA's data is comparable to the samples collected by Paden City on the same dates.

EPA collected additional samples on August 21st, 23rd, 28th, and 30th, 2023. The validated data for these four sampling events still showed exceedances of the MCL for some of the sample locations. Due to those exceedances, EPA collected additional samples on September 1st, 5th, 11th, 19th, and 26th, October 3rd, 10th, and 24th, and November 7th and 27th, 2023 to continue monitoring for PCE. All results have been validated. The data indicate that as of September 1st, 2023, all treated water sample results were below the MCL for PCE (5 ug/L) with the exception of one exceedance of 8.9 ug/L at a residential building during the September 19th sampling event. WVDH indicated to EPA that building residents were alerted of the MCL exceedance via the Paden City Water Department, who hand-delivered written notices, flushing instructions, and a case of water to each unit in the building. It is EPA's understanding that town residents received alerts regarding the

MCL exceedance on OneCall and Facebook. EPA and WVDH believe this exceedance could be due to residual contamination remaining in the waterline that was released with additional flushing. Validated data from three subsequent samples at this location were all below the MCL (ranging from 1.2 ug/L to 1.7 ug/L).

EPA is aware of results from sampling conducted by Paden City on August 17th, 18th, 21st, 22nd, 24th and 31st, as well as October 18th, November 10th, and November 13th, 2023. On August 30th, 2023, both EPA and the Town collected samples together in a split sampling event. EPA's preliminary results, which have since been validated, reported exceedances of the MCL for the untreated water influent (70.9 ug/L), as well as exceedances at three additional locations ranging from 6.2 ug/L to 6.5 ug/L. Additionally, on October 18th, 2023, EPA and the Town collected samples together in a split sampling event. EPA collected two samples, one from the untreated water influent, and one from the treated water effluent. EPA's preliminary results, which have since been validated, reported an exceedance of the MCL from the untreated water influent, and a detection 0.7 J ug/L from the treated effluent water (below the MCL). EPA's data for both split sampling events is comparable to the samples collected by Paden City on the same dates.

On September 12, 2023, WVDH approved the Town's request to lift the Do Not Consume order. The decision was based on results from samples collected by the Town on August 31st, 2023 that showed all results (besides the untreated influent) were below the MCL. WVDH also considered EPA's sample results which, at the time, showed all results (besides the untreated influent) below the MCL.

To view all EPA drinking water sample results as well as the Town's drinking water sample results that have been received by EPA, see **Table 1** at the end of this document. Regarding EPA samples, data validation has been completed and results are final for all samples through November 2023.

Last Updated: 2/29/2024

Question 5: When did EPA first receive the results of the July 26-27th samples for PCE taken in Paden City? When did EPA first learn of the results of the July 19th test sample for PCE taken by the Paden City water system?

EPA received the unvalidated data results from the July 26th-27th samples on August 15th, 2023. Upon receiving the results on August 15th, EPA's Superfund program took immediate action to notify EPA's Water and Enforcement Divisions, as well as WVDH and WVDEP, and the Town of Paden City in order to begin the process of notifying the community and ensuring that the Town addressed the situation. EPA learned of the quarterly compliance sample collected by Paden City Water system on August 16th after finding the results on WVDH's Online Drinking Water Viewer. The report on WVDH's Online Drinking Water Viewer states the data was reported to the State on August 8th, 2023.

Last Updated: 2/29/2024

Question 6: Is it typical for PCE tests not to come back for 4 weeks after a sample is taken? Given that Paden City is on the National Priorities List for PCE, are samples taken from that water system given any priority for testing?

EPA typically receives preliminary unvalidated results of data from the laboratory in 2-3 weeks for samples taken as part of a remedial investigation. Preliminary results go through a process called validation. Validation helps to confirm the accuracy of the samples. The validation process can typically take 4-6 weeks.

Validation of EPA samples collected through November 2023 has been completed.

Independent of the sampling being conducted pursuant to the RI, Paden City is required to monitor their public water system quarterly for volatile organic compounds (VOCs), including PCE. Public Water Systems are required to report sample results to the primacy agency (WVDH) within 10 days of the end of each compliance period. For instance, samples collected during the second quarter (July 1st – September 30th) would be due to the primacy agency by October 10th. Results are posted on WVDH's Online Drinking Water Viewer, which can be accessed at: https://wvdwv.gecsws.com/WaterSystem?n0=WV3305204%20%20%20. The monitoring requirement has since been increased to weekly, as discussed below in **Question 8**.

Last Updated: 2/1/2024

Question 7: Are there plans to expedite the testing of future PCE samples from Paden City so that any future problems can be remedied more quickly, and residents are not using water that exceeds the MCL for significant periods of time while samples are being tested?

EPA requested an expedited turnaround time from the laboratory for all municipal water samples from July to November 2023. Testing conducted concurrent with the quarterly RI groundwater sampling is submitted for standard turnaround time. EPA has the ability to expedite samples if a future situation warrants doing so.

Last Updated: 2/29/2024

Question 8: Will there be more testing performed by the EPA to ensure residents are not using water that exceeds the MCL? What is being done to prevent this from happening again?

On Friday, August 18th, 2023, an EPA On Scene Coordinator (OSC) and an engineer from EPA's Environmental Response Team (ERT) were on site with the Paden City Water Department. The air stripper appeared to be in working order at the time of the visit. Per ERT's assessment, the design of the air stripper is effective for removing the concentrations of PCE currently detected in the influent (untreated) water and is capable of effectively removing significantly higher concentrations of PCE. EPA shared the assessment and recommendations with WVDH for them to discuss with the Town directly.

EPA and the Town will continue to collect samples from the municipal water system to ensure that the Town's drinking water is safe. WVDH has increased Paden City's required PCE monitoring from quarterly to weekly. EPA performed weekly testing through October 10th, 2023 and then switched to biweekly sampling. The biweekly sampling continued through early November 2023. Another round of sampling was collected at the end of November 2023. EPA will collect samples from the municipal water system along with the periodic groundwater sampling that has been conducted on a quarterly basis as part of the ongoing RI. The future sampling plan will be revised as necessary based on data received.

Last Updated: 2/29/2024

Question 9: Are the students in the schools using the water? What is the source of water in the schools?

On August 30th, 2023, it was brought to EPA's attention that there were conflicting messages regarding the Do Not Consume Notice and concerns regarding use of water at the schools. EPA contacted the Wetzel County School District and was verbally informed that bottled water was being provided for all drinking, that

cafeteria staff had been directed to use bottled water for food preparation, and hand washing stations were available. EPA was verbally informed by the Wetzel County School District that the public water was only being used to flush toilets.

On August 31st, 2023, EPA was able to confirm with WVDH that they spoke to representatives of both the Paden City High School and the Paden City Elementary School directly and informed them the water was not to be used for human consumption. WVDH confirmed that both schools were using bottled water for drinking and cooking and both schools had handwashing stations.

On September 12th, 2023, WVDH, the primacy agency, made the determination to lift their order requiring a Do Not Consume Notice based on the Town's drinking water sampling results which were below the PCE MCL.

Last Updated: 11/6/2023

Question 10: Will EPA attend the Paden City Council meeting on September 11, 2023?

EPA did not attend the Paden City Council meeting on September 11th, 2023. The WVDH is the primacy agency for the drinking water program in the state of West Virginia. WVDH Office of Environmental Health Services is the agency that issued Administrative Order EE-23-10 and EE-23-10- A1. Paden City issued a Do Not Consume Notice at the direction of WVDH. It was not deemed to be appropriate for EPA to attend the meeting and provide feedback on Administrative Order EE-23-10 (or and EE-23-10- A1) or the Do Not Consume Notice.

EPA hosted a public meeting on November 14th, 2023 at the Paden City High School. The primary purpose of the meeting will be to discuss the Site status and next steps of the RI for the Paden City Groundwater Superfund Site. EPA also discussed community drinking water concerns. Presentation slides from the November 14th, 2023 public meeting can be accessed here: https://semspub.epa.gov/work/03/2360148.pdf.

Last Updated: 2/29/2024

Table 1 – Municipal Water Results

EPA Remedial/Removal Sample Location ID	Treatment Status	Location Description	Town Sample	Town Sample	EPA Remedial Sample	Town Sample	Town Sample
		Date	7/19/2023	7/26/2023	7/26/2023	8/17/2023	8/18/2023
		Analytical Method	EPA Method 524.2 Rev. 4.1	EPA Method 524.2 Rev. 4.1	Trace VOA	EPA Method 524.2 Rev. 4.1	EPA Method 524.2 Rev. 4.1
		Data Status	Unknown	Unknown	Validation Complete	Unknown	Unknown
PW-01	Treated	Gas Station	-	**24.2**	**18 J**	-	-
PW-02/LOC-01	Treated	Booster Station	-	**16.7**	**15 J**	-	-
PW-03	Treated	Town Building	-	**17.5**	**14 J**	-	-
PW-04	Treated	Convenience Store	-	**21.5**	**16 J**	-	-
PW-05	Treated	Town Building	-	**18**	**17 J**	-	**7.1**
PW-07	Treated	Water Treatment Plant	-	**24.4**	**15 J**	-	-
PW-08	Treated	Church	-	**24.3**	**19 J**	-	-
PW-09	Treated	Town Building	-	**26.6**	**17 J**	-	-
PW-10	Treated	Town Building	-	**17.9**	**14 J**	-	-
PW-11	Treated	Gas Station	-	**26**	**18 J**	-	-
PW-12/LOC-02	Treated	Town Test Site	-	**27.4**	**21 J**	-	-
PW-13/LOC-03	Treated	Town Test Site	-	**28.2**	**18 J**	-	-
PW-14/LOC-04	Untreated	Water Treatment Plant Influent	-	**41.8**	**39 J[(a)]**	-	-
PW-15/LOC-05	Treated	Water Treatment Plant Bathroom	-	**29.4**	**20 J[(a)]**	-	-
PW-17	Treated	Fire Hydrant	-	**17.8**	**16 J (18 J)**	-	-
PW-18-POST	Treated	Church	-	0.5 U	0.50 UJ	-	-
PW-18-PRE	Treated	Church	-	-	**21 J**	-	-
PW-19/LOC-06	Treated	Church	-	**26**	**20 J**	-	-
PW-20/LOC-07	Treated	Residential building	-	**24.6**	**18 J**	-	-
TB-yyyymmdd/TB##	Trip Blank	N/A	-	-	0.5 U	0.5 U	-
PW-21	Treated	Water Treatment Plant Clear Well	-	-	-	-	-
PW-22	Mid-Treatment	Water Treatment Plant Mid-Treatment	-	-	-	-	-
PW-23/LOC-08	Treated	Water Treatment Plant Effluent	**30.3***	-	-	0.6*	-
N/A	Treated	South End of System	-	-	-	-	-
N/A	Treated	Grade School	-	**24.1**	-	-	-
N/A	Treated	High School	-	**25.9**	-	-	-
N/A	Treated	East Side	-	-	-	-	-
N/A	Treated	Boat Launch	-	-	-	-	-
N/A	Treated	Residence	-	-	-	-	-

All results shown represent tetrachloroethylene (PCE) in micrograms per liter (ug/L).

As per the EPA National Primary Drinking Water Regulations, the maximum contaminant level (MCL) for PCE is 5 ug/L.

Results greater than 5 ug/L are **bolded** and highlighted in yellow.

- = Location was not sampled.

* = Based on field observations, there is uncertainty as to the actual sample port (PW-15 or PW-23) DPW used for this sample.

(a). Water treatment plant influent and effluent sample ports were mis-identified during the 7/26/23 and 8/21/23 sampling events. Results shown represent the intended sample locations.

( ) = Field duplicate sample result

D = Laboratory repeated analysis after diluting the original sample for more accurate result.

E = Result exceeds calibration limits. Quantity is estimated.

U = Analyte not detected

J = Quantity is estimated

EPA Remedial/Removal Sample Location ID	Treatment Status	Location Description	Town Sample	EPA Remedial Sample	Town Sample	EPA Remedial Sample	Town Sample
		Date	8/21/2023	8/21/2023	8/22/2023	8/23/2023	8/24/2023
		Analytical Method	EPA Method 524.2 Rev. 4.1	Trace VOA	EPA Method 524.2 Rev. 4.1	Trace VOA	EPA Method 524.2 Rev. 4.1
		Data Status	Unknown	Validation Complete	Unknown	Validation Complete	Unknown
PW-01	Treated	Gas Station	-	-	-	-	-
PW-02/LOC-01	Treated	Booster Station	-	**15**	0.5 U	**14**	1.2
PW-03	Treated	Town Building	-	-	-	-	-
PW-04	Treated	Convenience Store	-	-	-	-	-
PW-05	Treated	Town Building	-	-	-	-	-
PW-07	Treated	Water Treatment Plant	-	-	-	-	-
PW-08	Treated	Church	-	-	-	-	-
PW-09	Treated	Town Building	-	-	0.5 U	-	0.5 U
PW-10	Treated	Town Building	-	-	-	-	-
PW-11	Treated	Gas Station	-	-	-	-	-
PW-12/LOC-02	Treated	Town Test Site	-	0.14 J	-	0.11 J	-
PW-13/LOC-03	Treated	Town Test Site	-	**14**	0.84	**9.1 J-**	0.52
PW-14/LOC-04	Untreated	Water Treatment Plant Influent	-	**73[(a)] (71)**	**42**	**78**	**49**
PW-15/LOC-05	Treated	Water Treatment Plant Bathroom	-	0.18 J[(a)]	-	0.18 J (0.5 UJ)	-
PW-17	Treated	Fire Hydrant	-	-	-	-	-
PW-18-POST	Treated	Church	-	-	-	-	-
PW-18-PRE	Treated	Church	-	-	-	-	-
PW-19/LOC-06	Treated	Church	-	0.33 J	-	0.31 J	-
PW-20/LOC-07	Treated	Residential building	-	4 J-	-	**8.3 J-**	-
TB-yyyymmdd/TB##	Trip Blank	N/A	0.5 U	0.5 U	-	0.5 U	-
PW-21	Treated	Water Treatment Plant Clear Well	-	-	-	-	-
PW-22	Mid-Treatment	Water Treatment Plant Mid-Treatment	-	-	-	-	-
PW-23/LOC-08	Treated	Water Treatment Plant Effluent	-	-	0.5 U*	-	0.5 U*
N/A	Treated	South End of System	-	-	0.5 U	-	0.5 U
N/A	Treated	Grade School	1.1	-	0.69	-	2.2
N/A	Treated	High School	0.5 U	-	0.5 U	-	0.5 U
N/A	Treated	East Side	-	-	0.56	-	1
N/A	Treated	Boat Launch	-	-	0.5 U	-	0.5 U
N/A	Treated	Residence	-	-	0.5 U	-	0.5 U

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D = Laboratory repeated analysis after diluting the original sample for more accurate result.

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EPA Remedial/Removal Sample Location ID	Treatment Status	Location Description	EPA Remedial Sample	EPA Remedial Sample	Town Sample	Town Sample	EPA Removal Sample
		Date	8/28/2023	8/30/2023	8/30/2023	8/31/2023	9/1/2023
		Analytical Method	Trace VOA	Trace VOA	EPA Method 524.2 Rev. 4.1	EPA Method 524.2 Rev. 4.1	EPA Method 524.2
		Data Status	Validation Complete	Validation Complete	Unknown	Unknown	Validation Complete
PW-01	Treated	Gas Station	-	-		-	-
PW-02/LOC-01	Treated	Booster Station	**5.2**	2.5	2.4	1.3	1.21
PW-03	Treated	Town Building	-	-		-	-
PW-04	Treated	Convenience Store	-	-		-	-
PW-05	Treated	Town Building	-	-		-	-
PW-07	Treated	Water Treatment Plant	-	-		-	-
PW-08	Treated	Church	-	-		-	-
PW-09	Treated	Town Building	-	-		0.5 U	-
PW-10	Treated	Town Building	-	-		-	-
PW-11	Treated	Gas Station	-	-		-	-
PW-12/LOC-02	Treated	Town Test Site	0.5 U	**6.5**	**5.2**	-	1 U
PW-13/LOC-03	Treated	Town Test Site	2.4	**6.4**	**5.6**	1.3	1 U
PW-14/LOC-04	Untreated	Water Treatment Plant Influent	**40.1**	**70.9**	**65.2**	**24**	**25.4**
PW-15/LOC-05	Treated	Water Treatment Plant Bathroom	0.5 U (0.5 U)	0.5 U	0.5 U	-	1 U
PW-17	Treated	Fire Hydrant	-	-		-	-
PW-18-POST	Treated	Church	-	-		-	-
PW-18-PRE	Treated	Church	-	-		-	-
PW-19/LOC-06	Treated	Church	0.5 U	**6.2**	**5.1**	-	1 U (1 U)
PW-20/LOC-07	Treated	Residential building	4	3.5	3.1 (3.0)	-	2.22
TB-yyyymmdd/TB##	Trip Blank	N/A	0.5 U	0.5 U	0.5 U	0.5 U	1 U
PW-21	Treated	Water Treatment Plant Clear Well	-	1.7		-	-
PW-22	Mid-Treatment	Water Treatment Plant Mid-Treatment	-	3.7		-	-
PW-23/LOC-08	Treated	Water Treatment Plant Effluent	-	1 (0.9)*	0.8	0.5 U*	-
N/A	Treated	South End of System	-	-		0.5 U	-
N/A	Treated	Grade School	-	-		0.5 U	-
N/A	Treated	High School	-	-	**5.5**	0.5 U	-
N/A	Treated	East Side	-	-		0.5 U	-
N/A	Treated	Boat Launch	-	-		0.5 U	-
N/A	Treated	Residence	-	-		0.5 U	-

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EPA Remedial/Removal Sample Location ID	Treatment Status	Location Description	EPA Removal Sample	EPA Removal Sample	EPA Removal Sample	EPA Removal Sample	EPA Removal Sample
		Date	9/5/2023	9/11/2023	9/19/2023	9/26/2023	10/3/2023
		Analytical Method	EPA Method 524.2	EPA Method 524.2	EPA Method 524.2	EPA Method 524.2	Trace VOA
		Data Status	Validation Complete	Validation Complete	Validation Complete	Validation Complete	Validation Complete
PW-01	Treated	Gas Station	-	-	-	-	-
PW-02/LOC-01	Treated	Booster Station	1 U	0.52	2.5	1.7	1.6
PW-03	Treated	Town Building	-	-	-	-	-
PW-04	Treated	Convenience Store	-	-	-	-	-
PW-05	Treated	Town Building	-	-	-	-	-
PW-07	Treated	Water Treatment Plant	-	-	-	-	-
PW-08	Treated	Church	-	-	-	-	-
PW-09	Treated	Town Building	-	-	-	-	-
PW-10	Treated	Town Building	-	-	-	-	-
PW-11	Treated	Gas Station	-	-	-	-	-
PW-12/LOC-02	Treated	Town Test Site	1 U (1 U)	0.5 U	0.75	0.76	0.62
PW-13/LOC-03	Treated	Town Test Site	1.07	0.70 (0.66)	1.0	1.6	0.89
PW-14/LOC-04	Untreated	Water Treatment Plant Influent	**26.1**	**28**	**30**	**24**	**24**
PW-15/LOC-05	Treated	Water Treatment Plant Bathroom	1 U	0.17 J	0.86	1.4 (1.5)	0.67
PW-17	Treated	Fire Hydrant	-	-	-	-	-
PW-18-POST	Treated	Church	-	-	-	-	-
PW-18-PRE	Treated	Church	-	-	-	-	-
PW-19/LOC-06	Treated	Church	1 U	0.12 J	0.83 (0.83)	0.75	0.61
PW-20/LOC-07	Treated	Residential building	1 U	0.63	**8.9**	1.7	1.6 (1.6)
TB-yyyymmdd/TB##	Trip Blank	N/A	1 U	0.5 U	0.5 U	0.5 U	0.5 U
PW-21	Treated	Water Treatment Plant Clear Well	-	-	-	-	-
PW-22	Mid-Treatment	Water Treatment Plant Mid-Treatment	-	-	-	-	-
PW-23/LOC-08	Treated	Water Treatment Plant Effluent	1 U*	0.11 J*	0.72*	0.77*	0.71*
N/A	Treated	South End of System	-	-	-	-	-
N/A	Treated	Grade School	-	-	-	-	-
N/A	Treated	High School	-	-	-	-	-
N/A	Treated	East Side	-	-	-	-	-
N/A	Treated	Boat Launch	-	-	-	-	-
N/A	Treated	Residence	-	-	-	-	-

All results shown represent tetrachloroethylene (PCE) in micrograms per liter (ug/L).

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Results greater than 5 ug/L are **bolded** and highlighted in yellow.

- = Location was not sampled.

* = Based on field observations, there is uncertainty as to the actual sample port (PW-15 or PW-23) DPW used for this sample.

(a). Water treatment plant influent and effluent sample ports were mis-identified during the 7/26/23 and 8/21/23 sampling events. Results shown represent the intended sample locations.

( ) = Field duplicate sample result

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EPA Remedial/Removal Sample Location ID	Treatment Status	Location Description	EPA Removal Sample	EPA Remedial Sample	Town Sample	EPA Removal Sample	EPA Removal Sample
		Date	10/10/2023	10/18/2023	10/18/2023	10/24/2023	11/7/2023
		Analytical Method	Trace VOA	Trace VOA	EPA Method 524.2 Rev. 4.1	Trace VOA	Trace VOA
		Data Status	Validation Complete	Validation Complete	Unknown	Validation Complete	Validation Complete
PW-01	Treated	Gas Station	-	-	-	-	-
PW-02/LOC-01	Treated	Booster Station	0.48 J	-	-	-	-
PW-03	Treated	Town Building	-	-	-	-	-
PW-04	Treated	Convenience Store	-	-	-	-	-
PW-05	Treated	Town Building	-	-	-	-	-
PW-07	Treated	Water Treatment Plant	-	-	-	-	-
PW-08	Treated	Church	-	-	-	-	-
PW-09	Treated	Town Building	-	-	-	-	-
PW-10	Treated	Town Building	-	-	-	-	-
PW-11	Treated	Gas Station	-	-	-	-	-
PW-12/LOC-02	Treated	Town Test Site	0.62	-	-	-	-
PW-13/LOC-03	Treated	Town Test Site	1.4	-	-	-	-
PW-14/LOC-04	Untreated	Water Treatment Plant Influent	**20 D**	**20 J-**	**23.7**	**10**	**20 D**
PW-15/LOC-05	Treated	Water Treatment Plant Bathroom	0.72	-	-	0.61 (0.59)	0.83
PW-17	Treated	Fire Hydrant	-	-	-	-	-
PW-18-POST	Treated	Church	-	-	-	-	-
PW-18-PRE	Treated	Church	-	-	-	-	-
PW-19/LOC-06	Treated	Church	0.64	-	-	-	-
PW-20/LOC-07	Treated	Residential building	1.2 (1.2)	-	-	-	-
TB-yyyymmdd/TB##	Trip Blank	N/A	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U
PW-21	Treated	Water Treatment Plant Clear Well	-	-	-	-	-
PW-22	Mid-Treatment	Water Treatment Plant Mid-Treatment	-	-	-	-	-
PW-23/LOC-08	Treated	Water Treatment Plant Effluent	0.63	0.7 J- (0.69 J-)	0.7	0.53	0.96
N/A	Treated	South End of System	-	-	-	-	-
N/A	Treated	Grade School	-	-	-	-	-
N/A	Treated	High School	-	-	-	-	-
N/A	Treated	East Side	-	-	-	-	-
N/A	Treated	Boat Launch	-	-	-	-	-
N/A	Treated	Residence	-	-	-	-	-

All results shown represent tetrachloroethylene (PCE) in micrograms per liter (ug/L).

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EPA Remedial/Removal Sample Location ID	Treatment Status	Location Description	Town Sample	Town Sample	EPA Removal Sample
		Date	11/10/2023	11/13/2023	11/27/2023
		Analytical Method	EPA Method 524.2 Rev. 4.1	EPA Method 524.2 Rev. 4.1	Trace VOA
		Data Status	Validation Complete	Validation Complete	Validation Complete
PW-01	Treated	Gas Station	-	-	-
PW-02/LOC-01	Treated	Booster Station	0.80	0.69	-
PW-03	Treated	Town Building	-	-	-
PW-04	Treated	Convenience Store	-	-	-
PW-05	Treated	Town Building	-	-	-
PW-07	Treated	Water Treatment Plant	-	-	-
PW-08	Treated	Church	-	-	-
PW-09	Treated	Town Building	-	-	-
PW-10	Treated	Town Building	-	-	-
PW-11	Treated	Gas Station	-	-	-
PW-12/LOC-02	Treated	Town Test Site	-	-	-
PW-13/LOC-03	Treated	Town Test Site	0.93	0.84	-
PW-14/LOC-04	Untreated	Water Treatment Plant Influent	**26**	**18**	**23 D**
PW-15/LOC-05	Treated	Water Treatment Plant Bathroom	-	-	0.66
PW-17	Treated	Fire Hydrant	-	-	-
PW-18-POST	Treated	Church	-	-	-
PW-18-PRE	Treated	Church	-	-	-
PW-19/LOC-06	Treated	Church	-	-	-
PW-20/LOC-07	Treated	Residential building	1.0	0.84	-
TB-yyyymmdd/TB##	Trip Blank	N/A	0.5 U	0.5 U	0.5 U
PW-21	Treated	Water Treatment Plant Clear Well	-	-	-
PW-22	Mid-Treatment	Water Treatment Plant Mid-Treatment	-	-	-
PW-23/LOC-08	Treated	Water Treatment Plant Effluent	0.75*	0.68*	0.72
N/A	Treated	South End of System	1.1	0.84	-
N/A	Treated	Grade School	-	-	-
N/A	Treated	High School	-	-	-
N/A	Treated	East Side	-	-	-
N/A	Treated	Boat Launch	-	-	-
N/A	Treated	Residence	-	-	-

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