

Interagency Drinking Water System Team

Drinking Water Distribution System Recovery Plan: Stage 4 Sampling Results Report for Zone G1 Joint Base Pearl Harbor-Hickam (JBPHH) 2 March 2022



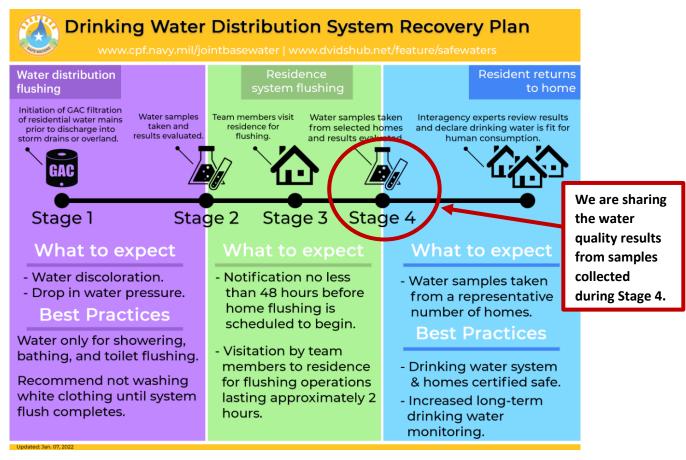
Neighborhoods included in Zone G1: Camp Smith



EXECUTIVE SUMMARY FOR ZONE G1

The Interagency Drinking Water System Team (IDWST) has reviewed the following results of drinking water samples collected during Stage 4. The November 29, 2021 <u>Public Health Advisory for the JPBHH Public Water System</u> for Zone G1 remains in effect until amended by the Hawaii Department of Health (DOH). The Navy and DOH data in this Stage 4 Residential Sampling Report will be collectively used by the DOH to support amending the Public Health Advisory for your zone. We are sharing this information to keep you updated on our progress towards restoring the water supply being provided to your community.

We have thoroughly flushed, sampled, and tested Zone G1. This Zone has completed each stage (i.e., Stage 1–Distribution System Flushing through Stage 4–Building Sampling), in the Drinking Water Distribution System Recovery Plan (see the Figure below). Based on the samples collected and tested during Stage 2 from water mains, and Stage 4 from residences, buildings, schools, and Child Development Centers this water meets U.S. Environmental Protection Agency (EPA) and Hawaii DOH standards that are applicable to the Navy Water System Incident. For additional information on the post-system flushing drinking water sampling data by zone, please visit: <u>https://jbphh-safewaters.org</u>. For complete information on the interagency response, please visit: <u>https://www.cpf.navy.mil/JBPHH-Water-Updates/.</u>





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Table 1-1. Contaminants Detected in Drinking Water Samples Collected from Residences in Zone G1

Contaminant	Sampling Period	Units	DOH Project Screening Level	Basis of DOH Screening Level ²	No. of Detects out of Samples	Minimum – Maximum (Average) ³	Meets DOH Screening Level? (Yes / No)	Typical Source of Contaminant	
Contaminants of Concern ¹									
Benzene	1/23/2022	ppb ⁶	5	MCL	0/12	-	Yes	Discharge from factories; Leaching from gas storage tanks and landfills	
Ethylbenzene	1/23/2022	ppb	700	MCL	0/12	-	Yes	Discharge from petroleum refineries	
Toluene	1/23/2022	ppb	1,000	MCL	0/12	-	Yes	Discharge from petroleum factories	
m,p,o-Xylenes	1/23/2022	ppb	10,000	MCL	0/12	-	Yes	Discharge from petroleum factories; Discharge from chemical factories	
1-Methylnaphthalene	1/23/2022	ppb	10	EAL	0/12	-	Yes	Used to make other chemicals such as dyes, and resins; also, present in cigarette smoke, wood smoke, tar, asphalt, and at some hazardous waste sites	
2-Methylnaphthalene	1/23/2022	ppb	10	EAL	0/12	-	Yes	Used to make other chemicals such as dyes, and resins; also used to make vitamin K; and is present in cigarette smoke, wood smoke, tar, asphalt, and at some hazardous waste sites	
Naphthalene	1/23/2022	ppb	17	EAL	0/12	-	Yes	Naphthalene is found in coal tar or crude oil and is used in the manufacture of plastics, resins, fuels, and dyes, and as a fumigant	
Lead	1/23/2022	ppb	15	MCL	12/12	0.23 - 0.81 (0.46)	Yes	Corrosion of household plumbing systems; Erosion of natural deposits	
Total TPH	1/23/2022	ppb	211	ISP	0/12	-	Yes ⁴	TPH is petroleum and can contaminate drinking water through spills and other releases into the environment	
Total Organic Carbon (TOC)	1/23/2022	ppb	2,000	ISP	12/12	1,960 – 12,600 (8,136)	No⁵	Naturally present in the environment, but also can be an indicator of contamination, including petroleum or other sources	



Contaminant	Sampling Period	Units	DOH Project Screening Level	Basis of DOH Screening Level ²	No. of Detects out of Samples	Minimum – Maximum (Average) ³	Meets DOH Screening Level? (Yes / No)	Typical Source of Contaminant		
Metals	Metals									
Antimony	1/23/2022	ppb	6	MCL	1/12	ND - 0.33 (0.33)	Yes	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder		
Barium	1/23/2022	ppb	2,000	MCL	12/12	3.0 - 4.6 (3.5)	Yes	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits		
Chromium	1/23/2022	ppb	100	MCL	12/12	1.2 - 1.8 (1.6)	Yes	Discharge from steel and pulp mills; Erosion of natural deposits		
Copper	1/23/2022	ppb	1,300	MCL	12/12	7.6 - 24 (16)	Yes	Corrosion of household plumbing systems; Erosion of natural deposits		

Notes:

1. These contaminants are listed whether detected or non-detect (ND) because these are incident specific. All other contaminants are only listed if detected.

2. The DOH uses multiple criteria to assess the safety of the drinking water including maximum contaminant levels (MCLs), previously established environmental action levels (EALs) and incident specific parameters (ISPs).

3. These numbers are the minimum and maximum values from all the sample test results. The average (or mathematical mean) includes all sample test results with a detectable contaminant. An average is the sum of the results (excluding non-detects) divided by the total number results with detection only. Acronyms and explanation of terms used in this table are presented on the following pages.

4. For more information regarding Total Petroleum Hydrocarbons, refer to the FACT SHEET What Are Petroleum Hydrocarbons?, available online at: https://health.hawaii.gov/about/files/2021/12/21.12.16 What-Are-Petroleum-Hydrocarbons.pdf.

5. Total Organic Carbon (TOC) test results report any constituent containing carbon, many of which are naturally occurring and some of which may be man-made. The IDWST selected a TOC project screening level of 2,000 ppb. For each exceedance, the IDWST investigated by reviewing the associated water quality data (e.g., BTEX results, TPH) and determined that all TOC exceedances are not associated with petroleum hydrocarbons. The DOH is reviewing all of the lines of evidence, include the TOC result, and will make a final determination as to whether or not to amend the public health advisory for this zone.

6. Parts per billion (ppb) refers to the amount (or concentration) of a contaminant in the water.



Table 1-2. Contaminants Detected in Drinking Water Samples Collected from Schools in Zone G1

There are no Schools in this zone.

Table 1-3. Contaminants Detected in Drinking Water Samples Collected from Child Development Centers in Zone G1

There are no Child Development Centers in this zone.



Table 1-4. Contaminants Detected in Drinking Water Samples Collected from Other Buildings in Zone G1

Contaminant	Sampling Period	Units	DOH Project Screening Level	Basis of DOH Screening Level ²	No. of Detects out of Samples	Minimum – Maximum (Average) ³	Meets DOH Screening Level? (Yes / No)	Typical Source of Contaminant
Contaminants of Concern ¹		•	•	•	•	•	•	
Benzene	01/25/2022	Ppb ⁶	5.0	MCL	0/6	-	Yes	Discharge from factories; Leaching from gas storage tanks and landfills
Ethylbenzene	01/25/2022	ppb	700	MCL	0/6	-	Yes	Discharge from petroleum refineries
Toluene	01/25/2022	ppb	1,000	MCL	0/6	-	Yes	Discharge from petroleum factories
m,p,o-Xylenes	01/25/2022	ppb	10,000	MCL	0/6	-	Yes	Discharge from petroleum factories; Discharge from chemical factories
1-Methylnaphthalene	01/25/2022	ppb	10	EAL	0/6	-	Yes	Used to make other chemicals such as dyes, and resins; also, present in cigarette smoke, wood smoke, tar, asphalt, and at some hazardous waste sites
2-Methylnaphthalene	01/25/2022	ppb	10	EAL	0/6	-	Yes	Used to make other chemicals such as dyes, and resins; also used to make vitamin K; and is present in cigarette smoke, wood smoke, tar, asphalt, and at some hazardous waste sites
Naphthalene	01/25/2022	ppb	17	EAL	0/6	-	Yes	Naphthalene is found in coal tar or crude oil and is used in the manufacture of plastics, resins, fuels, and dyes, and as a fumigant
Lead	01/25/2022	ppb	15	MCL	6/6	0.36 - 0.62 (0.48)	Yes	Corrosion of household plumbing systems; Erosion of natural deposits
Total TPH	01/25/2022	ppb	211	ISP	1/6	ND - 150 (150)	Yes⁴	TPH is petroleum and can contaminate drinking water through spills and other releases into the environment
Total Organic Carbon (TOC)	01/25/2022	ppb	2,000	ISP	3/6	ND – 2,010 (1,693)	No ⁵	Naturally present in the environment, but also can be an indicator of contamination, including petroleum or other sources



Contaminant	Sampling Period	Units	DOH Project Screening Level	Basis of DOH Screening Level ²	No. of Detects out of Samples	Minimum – Maximum (Average) ³	Meets DOH Screening Level? (Yes / No)	Typical Source of Contaminant	
Metals									
Barium	01/25/2022	ppb	2,000	MCL	6/6	2.8 - 3.7 (3.5)	Yes	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits	
Chromium	01/25/2022	ppb	100	MCL	6/6	1.8 - 1.9 (1.8)	Yes	Discharge from steel and pulp mills; Erosion of natural deposits	
Copper	01/25/2022	ppb	1,300	MCL	6/6	27 - 56 (47)	Yes	Corrosion of household plumbing systems; Erosion of natural deposits	
Selenium	01/25/2022	ppb	50	MCL	3/6	ND - 1.9 (1.7)	Yes	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines	
Volatile Organic Compounds (VOCs) - ND									
Synthetic Organic Compound	ds (SOCs) or Semi-Volatil	e Organi	c Compound	s (SVOCs) - N	D				

Notes:

1. These contaminants are listed whether detected or non-detect (ND) because these are incident specific. All other contaminants are only listed if detected.

2. The DOH uses multiple criteria to assess the safety of the drinking water including maximum contaminant levels (MCLs), previously established environmental action levels (EALs) and incident specific parameters (ISPs).

3. These numbers are the minimum and maximum values from all the sample test results. The average (or mathematical mean) includes all sample test results with a detectable contaminant. An average is the sum of the results (excluding non-detects) divided by the total number results with detection only. Acronyms and explanation of terms used in this table are presented on the following pages.

4. For more information regarding Total Petroleum Hydrocarbons, refer to the FACT SHEET What Are Petroleum Hydrocarbons?, available online at: https://health.hawaii.gov/about/files/2021/12/21.12.16_What-Are-Petroleum-Hydrocarbons.pdf.

5. Total Organic Carbon (TOC) test results report any constituent containing carbon, many of which are naturally occurring and some of which may be man-made. The IDWST selected a TOC project screening level of 2,000 ppb. For each exceedance, the IDWST investigated by reviewing the associated water quality data (e.g., BTEX results, TPH) and determined that all TOC exceedances are not associated with petroleum hydrocarbons. The DOH is reviewing all of the lines of evidence, include the TOC result, and will make a final determination as to whether or not to amend the public health advisory for this zone.

6. Parts per billion (ppb) refers to the amount (or concentration) of a contaminant in the water.



 Table 1-5. Contaminants Detected in Drinking Water Samples Collected from Fire Hydrants in Zone G1

There are no Hydrants in this zone.



Table 1-6. Contaminants Detected in Drinking Water Samples Collected from JBPHH's Source Water (Waiawa Shaft – Post Chlorination)

Contaminant	Sampling Period	Units	DOH Project Screening Level	Basis of DOH Screening Level ²	No. of Detects out of No. of Samples	Level Detected	Meets DOH Screening Level? (Yes / No)	Typical Source of Contaminant
Contaminants of Concern	1							
Benzene	01/11/2022	ppb4	5.0	MCL	0/1		Yes	Discharge from factories; Leaching from gas storage tanks and landfills
Ethylbenzene	01/11/2022	ppb	700	MCL	0/1		Yes	Discharge from petroleum refineries
Toluene	01/11/2022	ppb	1,000	MCL	0/1		Yes	Discharge from petroleum factories
m,p,o-Xylenes	01/11/2022	ppb	10,000	MCL	0/1		Yes	Discharge from petroleum factories; Discharge from chemical factories
1-Methylnaphthalene	01/11/2022	ppb	10	ISP	0/1		Yes	Used to make other chemicals such as dyes, and resins; also, present in cigarette smoke, wood smoke, tar, asphalt, and at some hazardous waste sites
2-Methylnaphthalene	01/11/2022	ppb	10	ISP	0/1		Yes	Used to make other chemicals such as dyes, and resins; also used to make vitamin K; and is present in cigarette smoke, wood smoke, tar, asphalt, and at some hazardous waste sites
Naphthalene	01/11/2022	ppb	17	ISP	0/1		Yes	Naphthalene is found in coal tar or crude oil and is used in the manufacture of plastics, resins, fuels, and dyes, and as a fumigant
Lead	01/11/2022	ppb	15	EAL	1/1	0.27	Yes	Corrosion of household plumbing systems; Erosion of natural deposits
Total Petroleum Hydrocarbons (TPHs)	01/11/2022	ppb	211	ISP	0/1		Yes ³	TPH is petroleum and can contaminate drinking water through spills and other releases into the environment
Total Organic Carbon (TOC)	01/11/2022	ppb	2,000	ISP	0/1		Yes	Naturally present in the environment, but also can be an indicator of contamination, including petroleum or other sources
Metals								
Antimony	01/11/2022	ppb	6.0	MCL	1/1	0.092	Yes	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic	01/11/2022	ppb	10	MCL	1/1	0.027	Yes	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production waste
Barium	01/11/2022	ppb	2,000	MCL	1/1	1.7	Yes	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits



Contaminant	Sampling Period	Units	DOH Project Screening Level	Basis of DOH Screening Level ²	No. of Detects out of No. of Samples	Level Detected	Meets DOH Screening Level? (Yes / No)	Typical Source of Contaminant
Chromium	01/11/2022	ppb	100	MCL	1/1	1.5	Yes	Corrosion of galvanized pipes; Erosion of natural deposits; Discharge from metal refineries; Runoff from waste batteries and paints
Copper	01/11/2022	ppb	1,300	EAL	1/1	21	Yes	Corrosion of household plumbing systems; Erosion of natural deposits
Selenium	01/11/2022	ppb	50	MCL	1/1	0.70	Yes	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines
Volatile Organic Compounds – ND								
Synthetic Organic Compo	unds (SOCs) or Semi-	Volatile C	Organic Comp	ounds (SVO	Cs) – ND			

Notes:

1. These contaminants are listed whether detected or non-detect (ND) because these are incident specific. All other contaminants are only listed if detected.

2. The DOH uses multiple criteria to assess the safety of the drinking water including maximum contaminant levels (MCLs), previously established environmental action levels (EALs) and incident specific parameters (ISPs).

3. For more information regarding Total Petroleum Hydrocarbons, refer to the FACT SHEET What Are Petroleum Hydrocarbons?, available online at: https://health.hawaii.gov/about/files/2021/12/21.12.16_What-Are-Petroleum-Hydrocarbons.pdf.

4. Parts per billion (ppb) refers to the amount (or concentration) of a contaminant in the water.



Drinking Water Distribution System Recovery Plan: Stage 4 Sampling Results Report for Zone G1

What is the purpose of this Stage 4 Sampling Results Report?

This progress report presents the testing results from drinking water samples that have been collected from residences, buildings, schools, and Child Development Centers. These samples were collected after extensive flushing of residences, buildings, schools, and childcare centers in Stage 3 was performed using clean water from the Navy Waiawa Shaft. This report summarizes results from Stage 4 of the 4-Stage process described in the IDWST Drinking Water Distribution System Recovery Plan.

The Navy and DOH data in this report will be collectively used by the DOH to support amending the public health advisory for your zone. We are sharing this information to keep you updated on our progress towards restoring the water supply being provided to your community.

What was found?

The tables on the previous pages present all contaminants that were detected in drinking water samples that have been collected from residences, schools, Child Development Centers, and other buildings in your zone during Stage 4. The DOH used multiple standards/criteria (called DOH Project Screening Levels) to assess the safety of the drinking water to include:

- EPA and Hawaii DOH Maximum Contaminant Levels (MCLs) standards for drinking water;
- Previously established Environmental Action Levels (EALs); and
- Incident Specific Parameters (ISPs).

This report together with the data demonstrates that the drinking water in your area (Zone G1) meets U.S. Environmental Protection Agency (EPA) and State of Hawaii Department of Health (DOH) standards that are applicable to the Navy Water System Incident.

Total Organic Carbon (TOC) test results report any constituent containing carbon, many of which are naturally occurring and some of which may be man-made. The IDWST selected a TOC project screening level of 2,000 parts per billion (ppb). For each exceedance, the IDWST investigated by reviewing the associated water quality data (e.g., BTEX results and TPH results) and determined that all TOC exceedances are not associated with petroleum hydrocarbons. The DOH is reviewing all of the lines of evidence, including the TOC result, and will make a final determination as to whether or not to amend the public health advisory for this zone.



What contaminants were tested?

Drinking water, including bottled water, can contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants tested can be obtained by calling the Hawaii DOH Safe Drinking Water Branch at 808-586-4258.

In order to ensure that drinking water is safe to drink, EPA and Hawaii DOH regulate the amount of certain contaminants in water provided by public water systems. For this incident, the primary categories of monitored contaminants include volatile organic compounds (VOCs), synthetic organic chemicals (SOCs)/semi-volatile organic compounds (SVOCs), metals, Total Petroleum Hydrocarbons (TPH), and Total Organic Carbon (TOC). A description of these contaminant categories can be found under *Explanation of Terms* located at the end of this report. The full list of contaminants that were tested for this zone are presented in the laboratory reports that are located at: https://jbphh-safewaters.org. For complete information on the interagency response, please visit: https://www.cpf.navy.mil/JBPHH-Water-Updates/.

What happened leading up to public health advisory being issued?

After receiving reports of a fuel-like smell or visual sheen in the drinking water from residents of Joint Base Pearl Harbor – Hickam (JBPHH) on November 28, 2021, the Navy immediately stopped using water from the Red Hill Shaft. Out of abundance of caution, the Navy also stopped using water from the Navy Aiea Halawa Shaft. The Navy's water system provides drinking water to JBPHH, including the Army, Air Force, Marine Corps, and Hawaii residents in some neighborhoods close to JBPHH. The Hawaii DOH issued a public health advisory on November 29, 2021. The Hawaii DOH, the United States Environmental Protection Agency (EPA), Navy, and Marine Corps Public Health Center, and Army formed the Interagency Drinking Water System Team (IDWST) to work on a coordinated effort to restore safe drinking water to all Navy Water System users.

Has the public health advisory been amended or lifted?

No. Please continue to follow the DOH public health advisory for Navy Water System users and only use your drinking water for non-consumptive purposes as long as your water does not have a visible sheen and remains odor free. Your service may have provided more restrictive guidance. As stated above, we completed Stage 4 of the 4-Stage process described in the Drinking Water System Recovery Plan and the DOH will re-evaluate its public health advisory. Once the public health advisory has been amended for all zones, the DOH will lift the public health advisory for the entire Navy Water System.



Where does our water come from?

The source of water for the Navy Water System now comes from the Navy Waiawa Shaft, which was not impacted by the release of Jet Fuel (JP-5) that occurred at Red Hill in late November 2021. The Waiawa Shaft has been sampled, and EPA and the DOH confirmed that it meets all federal and state drinking water standards. The Waiawa Shaft will continue to be sampled in accordance with EPA and the DOH requirements.

What has the IDWST done to clean the drinking water distribution system?

The IDWST evaluated multiple options for cleaning the Navy drinking water distribution system and determined that high-volume flushing of the Navy drinking water distribution system (all water mains/laterals/buildings) with 3 to 5 volumes of clean water from the Waiawa Shaft, followed by extensive testing to confirm that flushing worked, would restore safe drinking water to all Navy Water System users.

When were homes and other buildings flushing and water quality sampling conducted in Zone G1?

Flushing of homes and buildings in Zone G1 was completed on January 22, 2022. From January 23, 2022 to January 25, 2022, drinking water samples were collected from residences and other buildings.

Where were samples taken?

Per the IDWST approved sampling plan, ten percent (10%) of all homes and buildings were sampled with the exception of schools and Child Development Centers. A minimum of five (5) samples were collected from each school and two (2) samples at Child Development Centers. There are no schools in Zone G1. There are no Child Development Centers in Zone G1.

Where can I get more information about the potential health effects associated with these contaminants?

Hawaii Department of Health (DOH) <u>https://health.hawaii.gov/about/navy-water-system-quality-updates/</u>. Call the DOH Safe Drinking Water Branch at 808-586-4258

US Environmental Protection Agency (EPA) https://www.epa.gov/ground-water-and-drinking-water/forms/online-form-epas-officeground-water-and-drinking-water.

Call EPA Region 9's Environmental Information Center at 1-866-372-9378



Explanation of Terms and Acronyms used in this Report

Action Level (AL). This AL is for Lead and Copper. The AL is a measure of the effectiveness of the corrosion control treatment in water systems. The AL is not a standard for establishing a safe level of lead or copper. The AL is the point at which certain provisions of the proposed standards must be initiated.

Contaminant. Contaminant is any physical, chemical, biological, or radiological substance or matter in water, and can be either healthy or unhealthy, depending on the particular substance and concentration. It could also be a physical parameter monitored like pH or temperature.

DOH. Hawaii Department of Health

EPA. U.S. Environmental Protection Agency

Incident Specific Parameter (ISP). To more comprehensively monitor and respond to this specific petroleum contamination of drinking water, the DOH identified contaminants that require additional action prior to amending the Health Advisory. The ISPs are used as a line of evidence to evaluate the data generated in each zone during the investigation conducted by the IDWST.

Maximum Contaminant Level (MCL). An MCL is the maximum permissible level of a contaminant in water which is delivered to any user of a public water system. The MCL is set to protect the public from acute and chronic health risks associated with consuming water containing these contaminants.

Metals. Metals are not derived from living sources and in general do not contain carbon. Metals include antimony, arsenic, asbestos, barium, beryllium, cadmium, chromium, copper, cyanide, fluoride, lead, mercury, nitrate, nitrite, selenium, and thallium. These contaminants get into drinking water supplies through industrial discharge or spills, erosion of natural deposits, corrosion, sewage discharge, fertilizer runoff, and other sources.

ND. Non-Detect

Project Specific Screening Level. DOH uses multiple criteria to assess the safety of the drinking water including maximum contaminant levels (MCLs), previously established environmental action levels (EALs) and incident specific parameters (ISPs).

Synthetic Organic Compounds (SOCs)/Semi-Volatile Organic Compounds (SVOCs). SOCs and SVOCs may be used interchangeably and are man-made,



organic (carbon-based) chemicals that are less volatile than Volatile Organic Contaminants (VOCs). They are used as pesticides, defoliants, fuel additives, and as ingredients for other organic chemicals.

DOH Environmental Action Level (EAL). The DOH Environmental Action Levels (EALs) are concentrations of contaminants in drinking water and other media (e.g., soil, soil gas, and groundwater) below which the contaminants are assumed to not pose a significant threat to human health or the environment. Exceeding these EAL does not necessarily indicate that contamination at the site poses environmental hazards but generally warrants additional investigation.

Total Petroleum Hydrocarbons (TPH). TPH is a term used to describe a large family of several hundred chemical compounds that come from crude oil. Crude oil is used to make petroleum products, which can contaminate the environment. TPH is comprised of detected results from TPH-Gasoline, TPH-Diesel, and TPH-Oil.

Total Organic Carbon (TOC). TOC is naturally present in the environment, but also can be an indicator of contamination, including petroleum or other sources.

Total Trihalomethanes (TTHM). TTHM is the sum of the concentration in milligrams per liter of the trihalomethane compounds (trichloromethane [chloroform], dibromochloromethane, bromodichloromethane and tribromomethane [bromoform]).

Units. A unit is the concentration of contaminant found in the water. For this report, the units are expressed in U.S. Standard Units.

U.S. Standard Unit (Name)	Acronym	Equivalent International System of Units (Name)	Acronym
parts per million	ppm*	milligrams per Liter	mg/L
parts per billion	ppb*	micrograms per Liter	μg/L

*One (1) part per million (ppm) is 1,000 parts per billion (ppb).

Volatile Organic Compounds (VOCs). VOCs are a class of chemicals that contain carbon and evaporate, or volatilize, easily into air at room temperature. VOCs are found in a variety of commercial, industrial, and residential products, including gasoline, solvents, cleaners and degreasers, paints, inks and dyes, and pesticides.