

Consumer Confidence Report for Calendar Year 2017

Este informe contiene informactión muy importante sobre el aqua usted bebe. Tradúscalo ó hable con alguien que lo entienda bien.

Public Water System ID Number	Public Wate	r System Name	
AZ04-10-228	Thim Utility		
Contact Name and Title		Phone Number	E-mail Address
Keith Dojaquez Operations Manager ((SUM)	520-623-5172	kdojaquez@southwesternutility.com
We want our valued customers to be in public participation or to attend any of at520-623-5172 for additiona	our regularly		ase contact Keith Dojaquez

Drinking Water Sources

The sources of drinking water (both tap and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals, and in some cases, radioactive material, and can pickup substances resulting from the presence of animals or from human activity.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Our water source(s): Thim Utility PWS 10-228 has one ground water well.

Drinking Water Contaminants

Microbial Contaminants: Such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife

Inorganic Contaminants: Such as salts and metals that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming

Pesticides and Herbicides: Such as agriculture, urban storm water runoff, and residential uses that may come from a variety of sources

Organic Chemical Contaminants: Such as synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and also may come from gas stations, urban storm water runoff, and septic systems.

Radioactive Contaminants: That can be naturally occurring or be the result of oil and gas production and mining activities.

Vulnerable Population

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. Some people may be more vulnerable to contaminants in drinking water than the general population.

Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV-AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers.

For more information about contaminants and potential health effects, or to receive a copy of the U.S. Environmental Protection Agency (EPA) and the U.S. Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and microbiological contaminants call the EPA *Safe Drinking Water Hotline* at 1-800-426-4791.

Source Water Assessment

Based on the information currently available on the hydrogeologic settings of and the adjacent land uses that are in the specified proximity of the drinking water source(s) of this public water system, the department has given a low risk designation for the degree to which this public water system drinking water source(s) are protected. A low risk designation indicates that most source water protection measures are either already implemented, or the hydrogeology is such that the source water protection measures will have little impact on protection.

Further source water assessment documentation can be obtained by contacting ADEQ.

Definitions

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water

Level 1 Assessment: A study of the water system to identify potential problems and determine (if possible) why total coliform bacteria was present

Level 2 Assessment: A very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MCL violation has occurred and/or why total coliform bacteria was present

Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment, or other requirements

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water

Maximum Contaminant Level Goal MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health

Maximum Residual Disinfectant Level (MRDL): The level of disinfectant added for water treatment that may not be exceeded at the consumer's tap

Maximum Residual Disinfectant Level Goal (MRDLG): The level of disinfectant added for treatment at which no known or anticipated adverse effect on health of persons would occur

Minimum Reporting Limit (MRL): The smallest measured concentration of a substance that can be reliably measured by a given analytical method

Millirems per year (MREM): A measure of radiation absorbed by the body

Not Applicable (NA): Sampling was not completed by regulation or was not required

Not Detected (ND or <): Not detectable at reporting limit

Nephelometric Turbidity Units (NTU): A measure of water clarity

Million fibers per liter (MFL)

Picocuries per liter (pCi/L): Measure of the radioactivity in water

ppm: Parts per million or Milligrams per liter (mg/L)

ppb: Parts per billion or Micrograms per liter (µg/L)

ppt: Parts per trillion or Nanograms per liter (ng/L)

ppm x 1000 = ppb

ppq: Parts per quadrillion or Picograms per liter (pg/L)

ppb x 1000 = pptppt x 1000 = ppq

Lead Informational Statement:

Lead, in drinking water, is primarily from materials and components associated with service lines and home plumbing. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. **Thim Utility** is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at www.epa.gov/safewater/lead.

Water Quality Data - Regulated Contaminants

Microbiological (RTCR)	TT Violation Y or N	Number of Positive Samples	Positive Sample(s) Month & Year	MCL	MCLG	Likely Source of Contamination
E. Coli				0	0	Human and animal fecal waste
Fecal Indicator (coliphage, enterococci and/or E. coli)				0	0	Human and animal fecal waste
Surface Water Treatment Rule	TT Violation Y or N	Highest Level Detected	% Range (Low-High)	т	Sample Month & Year	Likely Source of Contamination
Total Organic Carbon ¹ (mg/L)				TT		Naturally Present in the Environment
Turbidity ² (NTU)				TT		Soil runoff

¹ **Total organic carbon (TOC)** has no health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts. These byproducts include trihalomethanes (THM) and haloacetic acids (HAA). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver, or kidney problems, or nervous system effects, and may lead to an increased risk of getting cancer.

² **Turbidity** is a measure of the cloudiness of water and is an indication of the effectiveness of our filtration system. We monitor it because it is a good

Running Range of All

MCL

Disinfectants	Violation Y or N	Annual Average (RAA)	Samples (Low-High)	MRDL	MRDLG	Month & Year	Likely Source of Contamination
Chlorine/Chloramine (ppm)	N	0.50	0.35 - 0.67	4	0	2017	Water additive used to control microbes
Chlorine dioxide (ppb)				800	0		Water additive used to control microbes
Disinfection By-Products	MCL Violation Y or N	Running Annual Average (RAA) <u>OR</u> Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Haloacetic Acids (HAA5) (ppb)	N	<2.0		60	N/A	8/2017	Byproduct of drinking water disinfection
Total Trihalomethanes (TTHM) (ppb)	N	0.61		80	N/A	8/2017	Byproduct of drinking water disinfection
Bromate (ppb)				10	0		Byproduct of drinking water disinfection
Chlorite (ppm)				1	0.8		Byproduct of drinking water disinfection
Lead & Copper	MCL Violation Y or N	90 th Percentile	Number of Samples Exceeds AL	AL	ALG	Sample Month & Year	Likely Source of Contamination
Copper (ppm)	N	0.021	0	1.3	1.3	7/2015	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb)	N	ND	0	15	0	7/2015	Corrosion of household plumbing systems; erosion of natural deposits
Radionuclides	MCL Violation Y or N	Running Annual Average (RAA) <u>OR</u> Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Beta/Photon Emitters (mrem/yr.)				4	0		Decay of natural and man- made deposits
Alpha Emitters (pCi/L)	N	2.2		15	0	12/2015	Erosion of natural deposits
Combined Radium-226 & -228 (pCi/L) Uranium (ug/L)				5 30	0		Erosion of natural deposits Erosion of natural deposits
Inorganic Chemicals (IOC)	MCL Violation Y or N	Running Annual Average (RAA) <u>OR</u> Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Antimony (ppb)		ND		6	6	12/2015	Discharge from petroleum refineries; fire retardants; ceramics, electronics and solder
Arsenic ¹ (ppb)	N	3.6		10	0	12/2015	Erosion of natural deposits, runoff from orchards, runoff from glass and electronics production wastes

Sample Lile Sample

² **Turbidity** is a measure of the cloudiness of water and is an indication of the effectiveness of our filtration system. We monitor it because it is a good indicator of the quality of water. High turbidity can hinder the effectiveness of disinfectants. Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

Asbestos (MFL)		ND	7	7	12/2012	Decay of asbestos cement water mains; Erosion of natural deposits
Barium (ppm)	N	0.031	2	2	12/2015	Discharge of drilling wastes; discharge from metal refineries; Erosion of natural deposits
Beryllium (ppb)		ND	4	4	12/2015	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries
Cadmium (ppb)		ND	5	5	12/2015	Corrosion of galvanized pipes; natural deposits; metal refineries; runoff from waste batteries and paints
Chromium (ppb)	N	5.3	100	100	12/2015	Discharge from steel and pulp mills; Erosion of natural deposits
Cyanide (ppb)		ND	200	200	12/2015	Discharge from steel/metal factories; Discharge from plastic and fertilizer factories
Fluoride (ppm)	N	1.2	4	4	12/2015	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Mercury (ppb)		ND	2	2	12/2015	Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills and cropland.
Nitrate (ppm)	N	1.2	10	10	12/2017	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrite ² (ppm)		ND	1	1	12/2012	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium (ppb)		ND	50	50	12/2015	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium (ppm)	N	51	N/A	N/A	12/2015	Erosion of natural deposits
Thallium (ppb)		ND	2	0.5	12/2015	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories

Arsenic is a mineral known to cause cancer in humans at high concentration and is linked to other health effects, such as skin damage and circulatory problems. If arsenic is less than or equal to the MCL, your drinking water meets EPA's standards. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water, and continues to research the health effects of low levels of arsenic.

arsenic.

² Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause "blue baby syndrome." Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, and

detected nitrate levels are above 5 ppm, you should ask advice from your health care provider.

Synthetic Organic Chemicals (SOC)	MCL Violation Y or N	Running Annual Average (RAA) <u>OR</u> Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
2,4-D (ppb)		ND		70	70	10/2016	Runoff from herbicide used on row crops
2,4,5-TP (a.k.a. Silvex) (ppb)		ND		50	50		Residue of banned herbicide
Acrylamide				TT	0		Added to water during sewage / wastewater treatment
Alachlor (ppb)		ND		2	0	10/2016	Runoff from herbicide used on row crops
Atrazine (ppb)		ND		3	3	10/2016	Runoff from herbicide used on row crops
Benzo (a) pyrene (PAH) (ppt)		ND		200	0	10/2016	Leaching from linings of water storage tanks and distribution lines
Carbofuran (ppb)		ND		40	40	10/2016	Leaching of soil fumigant used on rice and alfalfa
Chlordane (ppb)		ND		2	0	10/2016	Residue of banned termiticide
Dalapon (ppb)		ND		200	200	10/2016	Runoff from herbicide used on rights of way
Di (2-ethylhexyl) adipate (ppb)		ND		400	400	10/2016	Discharge from chemical factories
Di (2-ethylhexyl) phthalate (ppb)		ND		6	0	10/2016	Discharge from rubber and chemical factories

Dibromochloropropane (ppt) 200 0 fumigant used on so cotton, pieapples, and orchards 10/2016 Runoff from herbicic on soybeans and verbards 10/2016 Emissions from was incineration and oth combustion; discharce themical factories 10/2016 Runoff from herbicic on soybeans and verbards 10/2016 Emissions from was incineration and oth combustion; discharce themical factories 10/2016 Runoff from herbicic 10/2016 Residue of banned insecticide 10/2016 Residue of banned insecticide 10/2016 Discharge from induction 10/2016 Discharge from pater refineries 10/2016 Discharge from herbicic 10/2016							10/00:0	D ((/) 1: (''
Dinoseb (ppb)ND7710/2016Runoff from herbicic on soybeans and ve on	Dinoseb (ppb)		ND		200	0	10/2016	
Diquat (ppb)			ND		7	7	10/2016	Runoff from herbicide used
Dioxin [a.k.a. 2,3,7,8-TCDD] (ppq) 30	Diquat (ppb)	1	ND		20	20	10/2016	Runoff from herbicide use
Endothall (ppb)ND10010010/2016Runoff from herbicideEndrin (ppb)ND2210/2016Residue of banned insecticideNDTT010/2016Discharge from inducting of chemical factories; a chemical factoriesEthylene dibromide (ppt)ND50010/2016Discharge from petric refineriesGlyphosate (ppb)ND70070010/2016Runoff from herbicideHeptachlor (ppt)ND400010/2016Residue of banned in the petachlor of the	Dioxin [a.k.a. 2,3,7,8-TCDD] (ppq)		ND		30	0	10/2016	Emissions from waste incineration and other combustion; discharge from chemical factories
Endrin (ppb)ND2210/2016Residue of banned insecticidePepichlorohydrinNDTT010/2016Discharge from induction chemical factories; a impurity of some was treatment chemicalsEthylene dibromide (ppt)ND50010/2016Discharge from petr refineriesGlyphosate (ppb)ND70070010/2016Runoff from herbicideHeptachlor (ppt)ND400010/2016Residue of banned in the petachlor department of the petachlor epoxide (ppt)Hexachlorobenzene (ppb)ND200010/2016Discharge from metachlor department of the petachlor epoxide (ppt)Hexachlorobenzene (ppb)ND10Discharge from metachlor epoxide (ppt)	Endothall (ppb)		ND		100	100	10/2016	Runoff from herbicide use
Epichlorohydrin			ND		2	2	10/2016	
S0 0 refineries	Epichlorohydrin		ND		TT	0	10/2016	Discharge from industrial chemical factories; an impurity of some water treatment chemicals
Heptachlor (ppt) Heptachlor epoxide (ppt) ND ND 200 10/2016 Breakdown of hepta ND ND 10/2016 Breakdown of hepta ND 10/2016 Discharge from metrefineries and agricus chemical factories	Ethylene dibromide (ppt)		ND		50	0	10/2016	Discharge from petroleum refineries
Heptachlor epoxide (ppt) ND 200 0 10/2016 Breakdown of hepta ND ND 1 0 10/2016 Discharge from metric refineries and agricus chemical factories								Runoff from herbicide use
Hexachlorobenzene (ppb) ND 1 0 10/2016 Discharge from metric refineries and agriculation chemical factories		<u> </u>						Residue of banned termiticide
Hexachlorobenzene (ppb) 1 0 refineries and agricu chemical factories	Heptachior epoxide (ppt)				200	0		
	Hexachlorobenzene (ppb)		ND		1	0	10/2010	refineries and agricultural
Hexacniorocyclo pentadiene (ppb)	Hexachlorocyclo pentadiene (ppb)		ND		50	50	10/2016	Discharge from chemical factories
	Lindane (ppt)		ND		200	200	10/2016	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor (ppb) ND 40 40 In/2016 Runoff/leaching from insecticide used on vegetables, alfalfa,	Methoxychlor (ppb)				40	40		Runoff/leaching from insecticide used on fruits, vegetables, alfalfa,
Oxamyl (a.k.a. Vydate) (ppb) 200 insecticide used on potatoes and tomato	Oxamyl (a.k.a. Vydate) (ppb)		ND		200	200		Runoff/leaching from insecticide used on apples, potatoes and tomatoes
(ppt) discharge of waste of			ND		500	0		Runoff from landfills; discharge of waste chemicals
	Pentachlorophenol (ppb)		ND		1	0	10/2016	Discharge from wood preserving factories
Picloram (ppb) ND 500 500 10/2016 Herbicide runoff	Picloram (ppb)	-	ND		500	500	10/2016	
Simazine (ppb) ND 4 4 10/2016 Herbicide runoff	Simazine (ppb)				4	4		
	Toxaphene (ppb)		ND		3	0	10/2016	Runoff/leaching from insecticide used on cotton and cattle
		MCL Violation Y or N	Running Annual Average (RAA) <u>OR</u> Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Volatile Organic Chemicals (VOC) Running Annual Average (RAA) OR Highest Level Detected Range of All Samples (Low-High) MCL MCL MCL MCL MCL MCL Month & Year Likely Source of Contamination			+					
Volatile Organic Chemicals (VOC) MCL	Benzene (ppb)				5	0		
Volatile Organic Chemicals (VOC) MCL Violation Y or N Running Annual Average (RAA) OR Highest Level Detected Range of All Samples (Low-High) MCL MCL MCLG Sample Month & Year Likely Source of Contamination Benzene (ppb) ND 5 0 10/2016 Discharge from fact leaching from gas st tanks and landfills Carbon tetrachloride (ppb) ND 5 0 10/2016 Discharge from cher plants and other ind activities			ND					leaching from gas storage tanks and landfills Discharge from chemical plants and other industrial activities
Volatile Organic Chemicals (VOC) MCL Violation Y or N MCL Violation Y or N ND Samples (Low-High) MCL Samples (Low-High) Discharge from fact leaching from gas stanks and landfills ND Samples (Low-High) Discharge from cherolativities MCL Samples (Likely Source of Contamination MCL Samples (Low-High) Discharge from fact leaching from gas stanks and landfills ND Samples (Low-High) Discharge from cherolativities MCL Samples (Low-High)	Carbon tetrachloride (ppb)		ND ND		5	0	10/2016	leaching from gas storage tanks and landfills Discharge from chemical plants and other industrial activities Discharge from chemical and agricultural chemical factories
Volatile Organic Chemicals (VOC) NCL Violation (VOC) Volation (VOC) Volation (VOC) Volation (VOC) NCL (Violation Y or N) NCL (Vow-High)	Carbon tetrachloride (ppb) Chlorobenzene (ppb)		ND ND ND		5	0	10/2016 10/2016 10/2016	leaching from gas storage tanks and landfills Discharge from chemical plants and other industrial activities Discharge from chemical and agricultural chemical factories Discharge from industrial chemical factories
Volatile Organic Chemicals (VOC) Volation (VOC) Vol	Carbon tetrachloride (ppb) Chlorobenzene (ppb) o-Dichlorobenzene (ppb)		ND ND ND ND		5 100 600	0 100 600	10/2016 10/2016 10/2016 10/2016	leaching from gas storage tanks and landfills Discharge from chemical plants and other industrial activities Discharge from chemical and agricultural chemical factories Discharge from industrial chemical factories Discharge from industrial chemical factories
Volatile Organic Chemicals (VOC) NCL	Carbon tetrachloride (ppb) Chlorobenzene (ppb) p-Dichlorobenzene (ppb) p-Dichlorobenzene (ppb)		ND ND ND ND ND ND		5 100 600 75	0 100 600 75	10/2016 10/2016 10/2016 10/2016 10/2016	leaching from gas storage tanks and landfills Discharge from chemical plants and other industrial activities Discharge from chemical and agricultural chemical factories Discharge from industrial chemical factories
Volatile Organic Chemicals (VOC) Volation (VOC) Vol	Carbon tetrachloride (ppb) Chlorobenzene (ppb) p-Dichlorobenzene (ppb) p-Dichlorobenzene (ppb) 1,2-Dichloroethane (ppb)		ND ND ND ND ND ND ND ND		5 100 600 75 5	0 100 600 75	10/2016 10/2016 10/2016 10/2016 10/2016 10/2016	leaching from gas storage tanks and landfills Discharge from chemical plants and other industrial activities Discharge from chemical and agricultural chemical factories Discharge from industrial chemical factories
Volatile Organic Chemicals (VOC) Violation (YOC) Violation (YOC) Violation (YOC) Violation (RAA) OR Highest Level Detected ND Samples (Low-High) MCL MCLG Month & Year Violation (Low-High) MCL MCLG MCLG Month & Year Violation (Low-High) MCL MCLG MCLG Michael (Low-High) MCL Michael (Low-High) Michael (Low-High)	Carbon tetrachloride (ppb) Chlorobenzene (ppb) p-Dichlorobenzene (ppb) 1,2-Dichloroethane (ppb) 1,1-Dichloroethylene (ppb)		ND		5 100 600 75 5	0 100 600 75 0	10/2016 10/2016 10/2016 10/2016 10/2016 10/2016 10/2016	leaching from gas storage tanks and landfills Discharge from chemical plants and other industrial activities Discharge from chemical and agricultural chemical factories Discharge from industrial chemical factories
Volatile Organic Chemicals (VOC) MCL Violation Y or N MCL MCL Sample Month & Year Likely Source of Contamination Discharge from fact leaching from gas st tanks and landfills ND ND ND ND ND ND ND ND ND N	Carbon tetrachloride (ppb) Chlorobenzene (ppb) p-Dichlorobenzene (ppb) p-Dichlorobenzene (ppb) 1,2-Dichloroethane (ppb) 1,1-Dichloroethylene (ppb)		ND N		5 100 600 75 5 7	0 100 600 75 0 7	10/2016 10/2016 10/2016 10/2016 10/2016 10/2016 10/2016	leaching from gas storage tanks and landfills Discharge from chemical plants and other industrial activities Discharge from chemical and agricultural chemical factories Discharge from industrial chemical factories
Volatile Organic Chemicals (VOC) MCL Violation Y or N Annual Average (RAA) OR Highest Level Detected ND ND ND ND ND ND ND N	Carbon tetrachloride (ppb) Chlorobenzene (ppb) o-Dichlorobenzene (ppb) p-Dichlorobenzene (ppb) 1,2-Dichloroethane (ppb) 1,1-Dichloroethylene (ppb) cis-1,2-Dichloroethylene (ppb) trans-1,2-Dichloroethylene (ppb)		ND N		5 100 600 75 5 7 70	0 100 600 75 0 7 70	10/2016 10/2016 10/2016 10/2016 10/2016 10/2016 10/2016 10/2016	leaching from gas storage tanks and landfills Discharge from chemical plants and other industrial activities Discharge from chemical factories Discharge from industrial chemical factories
Notatile Organic Chemicals (VOC) Notation (RAA) OR (RAA) OR (RAA) OR (Low-High) Notation (Low-High) No	Carbon tetrachloride (ppb) Chlorobenzene (ppb) p-Dichlorobenzene (ppb) p-Dichlorobenzene (ppb) 1,2-Dichloroethane (ppb) 1,1-Dichloroethylene (ppb) cis-1,2-Dichloroethylene (ppb) trans-1,2-Dichloroethylene (ppb)		ND N		5 100 600 75 5 7 70 100	0 100 600 75 0 7 70 100	10/2016 10/2016 10/2016 10/2016 10/2016 10/2016 10/2016 10/2016 10/2016	leaching from gas storage tanks and landfills Discharge from chemical plants and other industrial activities Discharge from chemical factories Discharge from industrial chemical factories Discharge from pharmaceutical and chemical factories Discharge from industrial chemical factories Discharge from pharmaceutical and chemical factories Discharge from industrial chemical factories
Volatile Organic Chemicals (VOC) Volation (VOC) VOC) Volation (VOC) Vocation (VOC) Volation (VOC) Vocation (VOC) Vocation (VOC) Vocation (VOC) Vocation (VOC	Carbon tetrachloride (ppb) Chlorobenzene (ppb) p-Dichlorobenzene (ppb) 1,2-Dichloroethane (ppb) 1,1-Dichloroethylene (ppb) cis-1,2-Dichloroethylene (ppb) trans-1,2-Dichloroethylene (ppb) Dichloromethane (ppb)		ND N		5 100 600 75 5 7 70 100 5	0 100 600 75 0 7 70 100 0	10/2016 10/2016 10/2016 10/2016 10/2016 10/2016 10/2016 10/2016 10/2016 10/2016	leaching from gas storage tanks and landfills Discharge from chemical plants and other industrial activities Discharge from chemical factories Discharge from industrial chemical factories
Volatile Organic Chemicals (VOC) Voc Voc	Carbon tetrachloride (ppb) Chlorobenzene (ppb) p-Dichlorobenzene (ppb) 1,2-Dichloroethane (ppb) 1,1-Dichloroethylene (ppb) cis-1,2-Dichloroethylene (ppb) trans-1,2-Dichloroethylene (ppb) Dichloromethane (ppb) 1,2-Dichloropropane (ppb) Ethylbenzene (ppb)		ND N		5 100 600 75 5 7 70 100 5 5 700	0 100 600 75 0 7 70 100 0 0	10/2016 10/2016 10/2016 10/2016 10/2016 10/2016 10/2016 10/2016 10/2016 10/2016 10/2016	leaching from gas storage tanks and landfills Discharge from chemical plants and other industrial activities Discharge from chemical factories Discharge from industrial chemical factories Discharge from pharmaceutical and chemical factories Discharge from industrial chemical factories Discharge from pharmaceutical and chemical factories Discharge from petroleum refineries Discharge from rubber and plastic factories; leaching

1,2,4-Trichlorobenzene (ppb)	ND	70	70	10/2016	Discharge from textile- finishing factories
1,1,1-Trichloroethane (ppb)	ND	200	200	10/2016	Discharge from metal degreasing sites and other factories
1,1,2-Trichloroethane (ppb)	ND	5	3	10/2016	Discharge from industrial chemical factories
Trichloroethylene (ppb)	ND	5	0	10/2016	Discharge from metal degreasing sites and other factories
Toluene (ppm)	ND	1	1	10/2016	Discharge from petroleum factories
Vinyl Chloride (ppb)	ND	2	0	10/2016	Leaching from PVC piping; discharge from chemical factories
Xylenes (ppm)	ND	10	10	10/2016	Discharge from petroleum or chemical factories