

SMITHVILLE UTILITIES: To provide water, a life-sustaining resource, for the well-being and economic vitality of the community; Delivering safe drinking water to you, the consumer.

TABLE OF DETECTED CONTAMINANTS

CONTAMINANTS (UNITS)	MCLG	MCL	LEVEL FOUND	RANGE OF DETECTIONS	VIOLATION	SAMPLE YEAR	TYPICAL SOURCE OF CONTAMINANTS
Inorganic Contaminants							
Nitrate (ppm)	10	10	0.258	0.258	NO	2018	Farm fertilizer run-off; Leaching from septic tanks, sewage; Erosion of natural deposits.
Chromium (ppb)	100	100	2.02	NA	NO	2016	Erosion of natural deposits; Discharge from steel and pulp mills.
Nickel* (ppb)			1.61	NA	NO	2018	
Volatile Organic Contaminants							
TTHM's (ppb)	0	80	13.3	12.9 – 13.7	NO	2018	Disinfection by-product
Haloacetic acids (ppb)	0	60	1.41	0 – 2.81	NO	2018	By-product of drinking water chlorination
Bromodichloromethane				4.170-03.83	NO	2018	
Bromoform				1.43 - 1.82	NO	2018	
Chloroform				2.77 – 4.67	NO	2018	
Dibromochloromethane				3.73 – 4.18	NO	2018	



Lead and Copper						
Contaminants (units)	ACTION LEVEL (AL)	Individual Results Over AL	90% of test levels were less than	VIOLATION	YEAR SAMPLED	TYPICAL SOURCE OF CONTAMINANTS
Lead (ppb)	15 ppb	NA	2.27	No	2018	Corrosion of household plumbing systems
	0 out of 10	samples were	found to have	lead levels in	excess of the	Lead Action Level of 15 ppb
Copper (ppm)	1.3 ppm	NA	0.153	NO	2018	Corrosion of household plumbing systems.
	0 out of 10	samples were	found to have	copper levels in	excess of the	Copper Level Action of 1.3 ppm.

WATER QUALITY DATA

The table above lists all the drinking water contaminants that we detected during the 2018 calendar year. The presence of these contaminants in the water does not necessarily indicate the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done January 1, 2018 to December 31, 2018. The state requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data from year to year, though representative of the water quality, is more than one year old.

Month	Chlorine(ml/g)	Quarterly Avg. Chlorine	Running Annual Avg. (RAA)for the quarter
April 2017	0.1	$0.1+0.1+0.2/3=0.1$	
May 2017	0.1		
June 2017	0.2		
July 2017	0.1	$0.1+0.1+0.1/3=0.1$	
Aug 2017	0.1		
Sept 2017	0.1		
Oct 2017	0.2	$0.2+0.2+0.2/3=0.2$	
Nov 2017	0.2		
Dec 2017	0.2		
Jan 2018	0.2	$0.2+0.2+0.1/3=0.2$	1 st quarter 2018 RAA= $0.1+0.1+0.2+0.2/4=0.2$
Feb 2018	0.2		
Mar 2018	0.1		
Apr 2018	0.1	$0.1+0.1+0.1/3=0.1$	2 nd quarter 2018 RAA= $0.1+0.2+0.2=0.1/4+0.2$
May 2018	0.1		
Jun 2018	0.1		
July 2018	0.1	$0.1+0.1+0.1/3=0.1$	3 rd quarter 2018 RAA= $0.1+0.1+0.2+0.2/4=0.2$
Aug 2018	0.1		
Sept 2018	0.1		
Oct 2018	0.2	$0.2+0.2+0.1/3=0.2$	4 th quarter 2018 RAA= $0.2+0.1+0.1+0.2/4=0.2$
Nov 2018	0.2		
Dec 2018	0.1		
			Level Found= 0.15 ml/g Range= 0.1-0.2ml/g

DEFINITIONS OF SOME TERMS CONTAINED WITHIN THIS REPORT:

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Contaminant Level (MCL): The highest level of contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

ppm: milligrams per liter or parts per million – or one ounce in 7,350 gallons of water.

ppb: micrograms per liter or parts per billion – or one ounce in 7,350,000 gallons of water.

Action Level (AL): The concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALG's allow for a margin of safety.

N/A: Not applicable.

TTHMs: Total Trihalomethanes

***Nickel:** Nickel is an unregulated contaminant.

Atrazine, Atachlor and Simazine was all tested and all below the minimum detectable limit.

Mayor Tom Poulson
 BPA Member Ryan Imhoff
 BPA Member Kyle Krownapple
 BPA Member Roland Tanner

website:
thevillageofsmithville.com

