

JOSEPH G. KUSPA
Mayor

JANICE M. FERENCZ
City Clerk

JAMES E. DALLOS
Treasurer



City of Southgate

- CITY COUNCIL -

JOHN GRAZIANI
Council President

MARK FARRAH

KAREN E. GEORGE

BILL COLOYOS

DALL W. ZAMECKI

PHILIP J. RASUCHI

CHRISTOPHER P. ROLLET

ATTENTION:

THIS IS AN IMPORTANT REPORT ON WATER QUALITY AND SAFETY

The Southgate Water Department is proud of our long history of providing quality drinking water to our customers and is honored to provide this report to you. The 2018 Consumers Annual Report on Water Quality shows the sources of our water, lists the results of our tests, and contains important information about water and health. The Southgate Water Department will notify you immediately if there is ever any reason for concern about our water. We are pleased to show you that the water we purchase from the Great Lakes Water Authority (GLWA), has surpassed water quality standards as mandated by the United States Environmental Protection Agency (EPA) and the State of Michigan Department of Environmental Quality (MDEQ).

ABOUT OUR SYSTEM

The Southgate Water Department provides water to approximately 30,000 residents, 11,000 homes, and over 2,000 businesses, schools, churches, apartment complexes and numerous guests and visitors. The Southgate Water Department also maintains over 100 miles of water main and approximately 1,300 fire hydrants. The Southwest Water Treatment Plant, owned and operated by the Great Lakes Water Authority (GLWA), is Southgate's major supplier of water. The Southwest Water Treatment Plant receives water from the Detroit River where underground pipes carry the water for treatment. The many miles of deep raw water tunnels are periodically inspected either by hard-hat divers or with cameras for structural integrity and zebra mussel infestation. If you would like to know more about this report, please contact the Southgate Water Department at (734) 258-3074.

NATIONAL PRIMARY DRINKING WATER REGULATIONS COMPLIANCE

In 2018, the Southgate Water Department had zero (0) monitoring and zero (0) maximum contaminant level violations and did not exceed any health standards.

In 2018, the Southgate Water Department had zero (0) monitoring violations of fecal coliform. The regulation requires confirmation of any positive result and that location and all points surrounding to be re-sampled within 24 hours of notification or the next business day.

"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. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at (800-426-4791).

The sources of drinking water (both tap water 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 pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organics, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff and septic systems.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

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. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health."

"Some people may be more vulnerable to contaminants in drinking water than is 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. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791)."

Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline (800-426-4791).

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The City of Southgate 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. If you are concerned about lead in your water, you may wish to have your water tested. 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 <http://www.epa.gov/safewater/lead>.

Your source water comes from the Detroit River, situated within the Lake St. Clair, Clinton River, Detroit River, Rouge River, Ecorse River, in the U.S. and parts of the Thames River, Little River, Turkey Creek and Sydenham watersheds in Canada. The Michigan Department of Environmental Quality in partnership with the U.S. Geological Survey, the Detroit Water and Sewerage Department and the Michigan Public Health Institute performed a source water assessment in 2004 to determine the susceptibility of potential contamination. The susceptibility rating is on a seven-tiered scale from "very low" to "very high" based primarily on geologic sensitivity, water chemistry, and contaminant sources. The susceptibility of our Detroit River source water intakes were determined to be highly susceptible to potential contamination. However, all four Detroit water treatment plants that use source water from Detroit River have historically provided satisfactory treatment of this source water to meet drinking water standards.

GLWA has initiated source-water protection activities that include chemical containment, spill response, and a mercury reduction program. GLWA participates in a National Pollutant Discharge Elimination System permit discharge program and has an emergency response management plan. In 2015, GLWA received a grant from The Michigan Department of Environmental Quality to develop a source water protection program for the Detroit River Intakes. The program includes seven elements that include the following: roles and duties of government units and water supply agencies, delineation of a source water protection area, identification of potential of source water protection area, management approaches for protection, contingency plans, siting of new sources and public participation and education. If you would like to know more information about the Source Water Assessment or SWIPP, contact your water department (734) 258-3074.

**Southwest Water Treatment Plant
2018 Regulated Detected Contaminants Tables**

Regulated Contaminant	Test Date	Unit	Health Goal MCLG	Allowed Level MCL	Highest Level Detected	Range of Detection	Violation yes/no	Major Sources in Drinking Water
Inorganic Chemicals – Monitoring at Plant Finished Water Tap								
Fluoride	06/12/2018	ppm	4	4	0.66	n/a	no	Erosion of natural deposits; Water additive, which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate	06/12/2018	ppm	10	10	0.41	n/a	no	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Barium	05/16/2017	ppm	2	2	0.01	n/a	no	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits

Disinfection By-Products – Monitoring in Distribution System Stage 2 Disinfection By-Products								
Regulated Contaminant	Test Date	Unit	Health Goal MCLG	Allowed Level MCL	Highest LRAA	Range of Detection	Violation yes/no	Major Sources in Drinking Water
Total Trihalomethanes (TTHM)	2018	ppb	n/a	80	20.5	15 - 30	no	By-product of drinking water chlorination.
Haloacetic Acids (HAA5)	2018	ppb	n/a	60	12.62	9.5 - 15	no	By-product of drinking water disinfection.

Disinfection – Monitoring in Distribution System by Treatment Plant								
Regulated Contaminant	Test Date	Unit	Health Goal MRDGL	Allowed Level MRDL	Highest RAA	Quarterly Range of Detection	Violation yes/no	Major Sources in Drinking Water
Total Chlorine Residual	Jan.-Dec. 2018	ppm	4	4	0.58	0.48-0.61	no	Water additive used to control microbes.

2017 Turbidity – Monitored every 4 hours at Plant Finished Water Tap			
Highest Single Measurement Cannot exceed 1 NTU	Lowest Monthly % of Samples Meeting Turbidity Limit of 0.3 NTU (minimum 95%)	Violation yes/no	Major Sources in Drinking Water
0.19 NTU	100%	no	Soil Runoff
Turbidity is a measure of the cloudiness of water. We monitor it because it is a good indicator of the effectiveness of our filtration system.			

2014 Lead and Copper Monitoring at Customers' Tap								
Regulated Contaminant	Test Date	Unit	Health Goal MCLG	Action Level AL	90 th Percentile Value*	Number of Samples Over AL	Violation yes/no	Major Sources in Drinking Water
Lead	2017	ppb	0	15	0.0	0	no	Corrosion of household plumbing system; Erosion of natural deposits.
Copper	2017	ppm	1.3	1.3	0.1	0	no	Corrosion of household plumbing system; Erosion of natural deposits; Leaching from wood preservatives.

*The 90th percentile value means 90 percent of the homes tested have lead and copper levels below the given 90th percentile value. If the 90th percentile value is above the AL additional requirements must be met.

Regulated Contaminant	Treatment Technique	Typical Source of Contaminant
Total Organic Carbon (ppm)	The Total Organic Carbon (TOC) removal ratio is calculated as the ratio between the actual TOC removal and the TOC removal requirements. The TOC was measured each quarter and because the level was low, there is no requirement for TOC removal.	Erosion of natural deposits

Radionuclides 2014							
Regulated Contaminant	Test Date	Unit	Health Goal MCLG	Allowed Level MCL	Level Detected	Violation yes/no	Major Sources in Drinking Water
Combined Radium Radium 226 and 228	5/13/2014	pCi/L	0	5	0.65 + or - 0.54	no	Erosion of natural deposits

Contaminant	MCLG	MCL	Level Detected	Source of Contamination
Sodium (ppm)	n/a	n/a	6.36	Erosion of natural deposits

2018 Key to the Detected Contaminant Tables

Symbol	Abbreviation for	Definition/Explanation
>	Greater than	
AL	Action Level	The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements which a water system must follow.
HAA5	Haloacetic Acids	HAA5 is the total of bromoacetic, chloroacetic, dibromoacetic, dichloroacetic, and trichloroacetic acids. Compliance is based on the total.
Level 1	Level 1 Assessment	A level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in the water system.
Level 2	Level 2 Assessment	A level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.
LRAA	Locational Running Annual Average	The average of analytical results for samples at a particular monitoring location during the previous four quarters.
MCL	Maximum Contaminant Level	The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
MCLG	Maximum Contaminant Level Goal	The level of contaminant in drinking water below which there is no known or expected risk to health.
MRDL	Maximum Residual Disinfectant Level	The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
MRDLG	Maximum Residual Disinfectant Level Goal	The level of a drinking water disinfectant below which there is no known or expected risk to health. MRLDG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.
n/a	not applicable	
NTU	Nephelometric Turbidity Units	Measures the cloudiness of water.
pCi/L	Picocuries Per Liter	A measure of radioactivity.
ppb	Parts Per Billion (one in one billion)	The ppb is equivalent to micrograms per liter. A microgram = 1/1000 milligram.
ppm	Parts Per Million (one in one million)	The ppm is equivalent to milligrams per liter. A milligram = 1/1000 gram.
RAA	Running Annual Average	The average of analytical results for all samples during the previous four quarters.
TT	Treatment Technique	A required process intended to reduce the level of a contaminant in drinking water.
TTHM	Total Trihalomethanes	Total Trihalomethanes is the sum of chloroform, bromodichloromethane, dibromochloromethane and bromoform. Compliance is based on total.
µmhos	Micromhos	Measure of electrical conductance of water
°C	Celsius	A scale of temperature in which water freezes at 0° and boils at 100° under standard conditions.
ND	Not Detected	

The Southgate Water Board conducts meetings on a quarterly basis that are open to the public. For more information, call (734) 258-3074.

Odd / Even Outdoor Watering Schedule – 2019

There is a mandatory Odd/Even Watering Schedule in effect from: May 26 – September 7, 2019
Residents with an address ending in an even number would be permitted to water their lawns on even-numbered calendar dates.

If your address ends with: 0 or 2 or 4 or 6 or 8	You may use water outdoors on calendar dates ending in: 0, 2, 4, 6, 8
---	--

Residents with an address ending in an odd number would be permitted to water their lawns on odd-numbered calendar dates.

If your address ends with: 1 or 3 or 5 or 7 or 9	You may use water outdoors on calendar dates ending in: 1, 3, 5, 7, 9
---	--

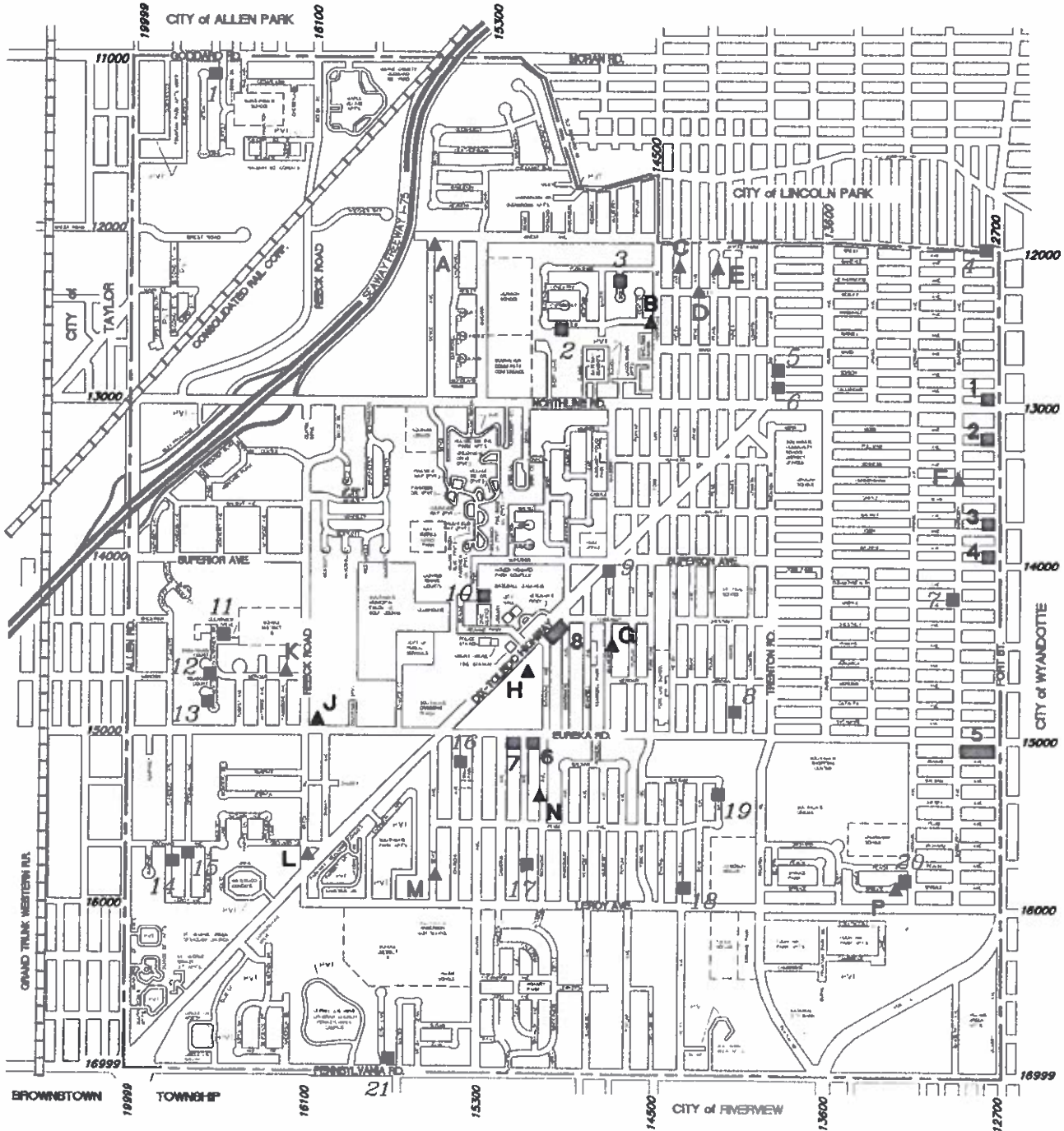
Compliance with this watering schedule will be enforced.

CITY OF SOUTHGATE



2019 CB and PAVEMENT REPAIR, WATER DEPT REPAIR AND ALLEY REPAIR PROGRAMS

REVISION 7.13.15 AM



■ CB & PAVEMENT REPAIRS

▲ WATER DEPT PAVEMENT REPAIRS

■ ALLEY REPAIRS

- | | |
|--------------------------------|--------------------------------------|
| 1. CEDARLAWN AT SUFFOLK | 12. SWCORNER SOUTHVIEW & COUNTRYVIEW |
| 2. #14967 MALCOLM | 13. #14890 SOUTHVIEW |
| 3. #12195-#12318 DORSET CT | 14. #15823 FLANDERS |
| 4. BREST RD AT FORT ST | 15. #15859 DRYSDALE TO ORCHARD |
| 5. #130800 EDISON TO DIX | 16. #15105 CHURCHILL |
| 6. #13800 CALLENDER | 17. #15651 DRAKE |
| 7. #13100 ARGYLE, ON BARBERRY | 18. #15761 HELEN |
| 8. #14633 AGNES | 19. #15253-#15265 NANCY |
| 9. #14141 MULBERRY TO SUPERIOR | 20. NW CORNER SPRUCE & HOWARD |
| 10. #14700 REAUME PKWY | 21. #16821 ROSA LANE |
| 11. #18440 CLEARVIEW | |

- | | |
|--------------------------|-----------------------------|
| A. #12051 DEVOE | H. #14799 DIX-TOLEDO |
| B. MALCOLM & FORD LINE | J. #16054 EUREKA |
| C. #12173 HELEN | K. #14765 FAIRGROVE |
| D. IRENE & WESLEY | L. ACROSS FROM #15650 REECK |
| E. #12149 PEARL | M. #15699 DEVOE |
| F. CUNNINGHAM & BARBERRY | N. #15318 RICHMOND |
| G. #14553 MULBERRY | P. #13231 SPRUCE |

- | |
|-----------------------------|
| 1. #12990 FORT ST |
| 2. #13136 FORT ST |
| 3. #13650-#13672 FORT ST |
| 4. #13870 FORT ST |
| 5. #12755-#12869 EUREKA RD |
| 6. #15007-#15067 EUREKA RD |
| 7. #15125 EUREKA RD |
| 8. #14319-#14405 DIX-TOLEDO |

