



2017 Water Quality Report

City of South Gate

Since 1991, California water utilities have been providing information on water served to its consumers. This report is a snapshot of the tap water quality that we provided last year. Included are details about where your water comes from, how it is tested, what is in it, and how it compares with state and federal limits. We strive to keep you informed about the quality of your water and to provide a reliable and economic supply that meets all regulatory requirements.

Desde 1991, las agencias proveedoras de servicios públicos de Agua de California han emitido información sobre el agua que se les sirve a sus consumidores. Este informe es una copia de la calidad del agua potable que le proporcionamos este año pasado. Incluimos detalles sobre el origen de su agua, cómo se analiza, que contiene, y cómo se compara con los límites estatales y federales. Nos esforzamos por mantenerle informado sobre la calidad de su agua y de proporcionarle un abastecimiento confiable y económico que cumpla con todos los requisitos reglamentarios.

Where Does My Tap Water Come From?

Your tap water comes from local, deep groundwater wells that supply our service area shown on the adjacent map. The quality of groundwater delivered to your home is presented in this report.



¿De Dónde Proviene Mi Agua Potable?

Su agua potable proviene de pozos profundos subterráneos locales que abastecen nuestra área de servicio y que muestra el mapa adjunto. En este informe se presenta la calidad del agua que llega a su hogar.

Golden State Water Company



How is My Drinking Water Tested?

Your drinking water is tested regularly for unsafe levels of chemicals, radioactivity and bacteria at the source and in the distribution system. We test weekly, monthly, quarterly, annually or less often depending on the substance. State and federal laws allow us to test some substances less than once per year because their levels do not change frequently. All water quality tests are conducted by specially trained technicians in state-certified laboratories.

What Are Drinking Water Standards?

The U.S. Environmental Protection Agency (USEPA) limits the amount of certain substances allowed in tap water. In California, the State Water Resources Control Board (State Board) regulates tap water quality by enforcing limits that are at least as stringent as the Federal EPA's. Historically, California limits are more stringent than the Federal ones.

There are two types of these limits, known as standards. Primary standards protect you from substances that could potentially affect your health. Secondary standards regulate substances that affect the aesthetic qualities of water. Regulations set a Maximum Contaminant Level (MCL) for each of the primary and secondary standards. The MCL is the highest level of a substance that is allowed in your drinking water.

Public Health Goals (PHGs) are set by the California Environmental Protection Agency (EPA). PHGs provide more information on the quality of drinking water to customers, and are similar to their federal counterparts, Maximum Contaminant Level Goals (MCLGs). PHGs and MCLGs are advisory levels that are nonenforceable. Both PHGs and MCLGs are concentrations of a substance below which there are no known or expected health risks.

How Do I Read the Water Quality Table?

Although we test for over 100 substances, regulations require us to report only those found in your water. The first column of the water quality table lists substances detected in your water. The next columns list the average concentration and range of concentrations found in your drinking water. Following are columns that list the MCL and PHG or MCLG, if appropriate. The last column describes the likely sources of these substances in drinking water.

To review the quality of your drinking water, compare the highest concentration and the MCL. Check for substances greater than the MCL. Exceedence of a primary MCL does not usually constitute an immediate health threat. Rather, it requires testing the source water more frequently for a short duration. If test results show that the water continues to exceed the MCL, the water must be treated to remove the substance, or the source must be removed from service.

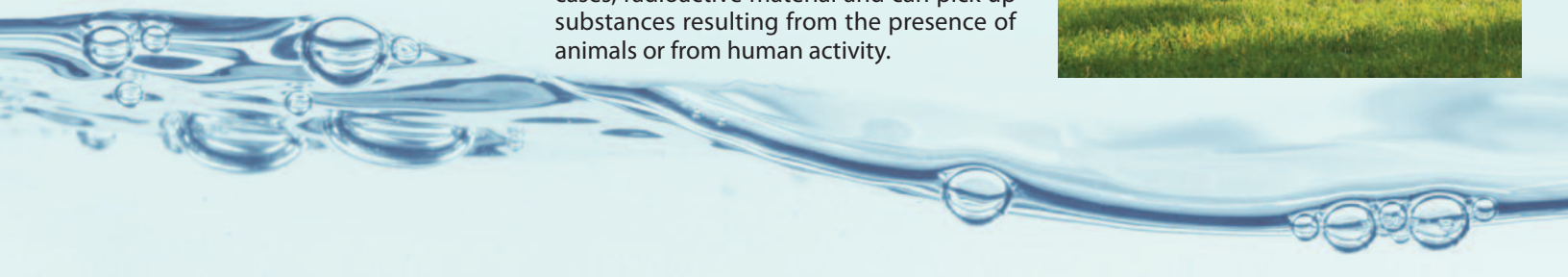
Why Do I See So Much Coverage in the News About the Quality of Tap Water?

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, including 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, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses;
- Organic chemical contaminants, including synthetic and volatile organic chemicals, that are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural application, 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, the U.S. Environmental Protection Agency (USEPA) and the State Water Resources Control Board (State Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The State Board regulations also establish limits for contaminants in bottled water that must provide the same protection for public health.





All 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 EPA's Safe Drinking Water Hotline (1-800-426-4791). You can also get more information on tap water by logging on to these helpful web sites:

- 💧 <http://water.epa.gov/dwstandards/regulations/drinking-water-standards-and-health-advisory-tables> (USEPA's website)
- 💧 www.swrcb.ca.gov/drinking_water/certlic/drinkingwater/NotificationLevels.shtml (State Board website)

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 South Gate 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>.

Should I Take Additional Precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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. The USEPA/Centers for Disease Control guidelines on appropriate means to lessen the risk of infection of *Cryptosporidium* and other microbial contaminants are available from the USEPA's Safe Drinking Water Hotline (1-800-426-4791).

Source Water Assessment

The City of South Gate conducted an assessment of its groundwater supplies in 2003. Groundwater supplies are considered most vulnerable to water supply wells. A copy of the approved assessment may be obtained by contacting South Gate Water Operations Foreman, Ramiro Hernandez at (323) 563-5796.

How Can I Participate in Decisions On Water Issues That Affect Me?

The public is welcome to attend City Council meetings on the second and fourth Tuesday of each month at 6:30 p.m. in the City Council Chambers, South Gate City Hall at 8650 California Avenue, South Gate, California 90280.



How Do I Contact My Water Agency If I Have Any Questions About Water Quality?

If you have specific questions about your tap water quality, please contact Ramiro Hernandez, South Gate Water Operations Foreman, at (323) 563-5796.



Some Helpful Water Conservation Tips

- 💧 Fix leaky faucets in your home – save up to 20 gallons every day for every leak stopped.
- 💧 Save between 15 and 50 gallons each time by only washing full loads of laundry.
- 💧 Adjust your sprinklers so that water lands on your lawn/garden, not the sidewalk/driveway – save 500 gallons per month.
- 💧 Use organic mulch around plants to reduce evaporation – save hundreds of gallons a year.
- 💧 Reduce shower time and turn off water while brushing teeth.
- 💧 Buy water-saving devices such as high-efficiency toilets and clothes washers.
- 💧 Do not wash a motor vehicle with a hose, unless the hose is fitted with a shut-off nozzle.

Visit us on the web at:
www.cityofsouthgate.org

¿Cómo Se Analiza Mi Agua Potable?

Su agua potable se analiza regularmente revisando niveles peligrosos de sustancias químicas, radioactividad y de bacteria en su origen y en el sistema de distribución. Hacemos estas pruebas cada semana, cada mes, cada trimestre, y cada año o con menos frecuencia, dependiendo de la sustancia. Las leyes estatales y federales nos permiten hacer pruebas a algunas sustancias menos que una vez al año porque sus niveles no cambian frecuentemente. Todos los análisis de calidad de agua se llevan a cabo por técnicos especialmente entrenados en laboratorios estatales certificados.

¿Cuales Son Las Normas del Agua Potable?

La Agencia federal de Protección al Medio Ambiente (USEPA) impone los límites de las cantidades de ciertas sustancias permitidas en el agua potable. En California, la Mesa Directiva de Control de Recursos de Agua Estatal (Mesa Directiva Estatal) regula la calidad de agua de la llave haciendo cumplir límites que son al menos tan rigurosos como los de USEPA. Históricamente, los límites de California son más rigurosos que los Federales.

Hay dos tipos de límites conocidos como normas. Las normas primarias lo protegen a usted de sustancias que potencialmente podrían afectar su salud. Las normas secundarias regulan las sustancias que afectan la calidad estética del agua. Los reglamentos establecen un Nivel Máximo de Contaminantes (MCL) para cada una de las normas tanto primarias como secundarias. El MCL es el nivel mas alto de sustancia permitida en su agua potable.

Las Metas de la Salud Pública (PHGs) son establecidas por la Agencia de Protección Ambiental de California (EPA). Las PHG proporcionan más información con respecto a la calidad del agua potable a clientes, y son similares a los reglamentos equivalentes federales nombrados Metas de Niveles de

Contaminantes Máximos (MCLG). Las PHGs y MCLGs son metas a nivel recomendable que no se pueden hacer cumplir. Ambos niveles PHG y MCLG son concentraciones de una sustancia debajo de la cual no se conoce o se espera haya riesgos para la salud.



¿Cómo Interpreto la Tabla de Información de Calidad de Agua?

Aunque analizamos para más de 100 sustancias, los reglamentos requieren que reportemos solo aquellas que se encuentran en su agua. La primera columna en la tabla de la calidad de agua muestra las sustancias detectadas en su agua. Las siguientes columnas muestran la concentración promedio y la variedad de concentraciones que se hayan encontrado en su agua potable. Las siguientes columnas si fuera apropiado, muestran los MCL y PHG o MCLG. La última columna describe el probable origen de estas sustancias en el agua potable.

Para revisar la calidad de su agua potable, compare la concentración más alta y el MCL. Revise las sustancias mas altas que las del MCL. El exceder de un MCL Primario no significa una amenaza inmediata para la salud. Más bien, esto requiere que por un corto periodo se realicen análisis más frecuentes del abastecimiento del agua. Si los resultados muestran que el agua continua sobrepasando el MCL, el agua debe ser tratada para remover esa sustancia o la fuente debe de ser retirada de prestar servicio al público.

¿Por Qué Hay Tanta Cobertura En Las Noticias Sobre La Calidad Del Agua De La Llave?

Los lugares de origen del agua potable (ambas agua de la llave y agua embotellada) incluyen ríos, lagos, arroyos, lagunas, presas, manantiales y pozos. Conforme el agua viaja sobre la superficie de la tierra o a través del suelo, se disuelve naturalmente y ocurren minerales y en algunas ocasiones, material radioactivo y pueden recoger sustancias generadas por la presencia de animales o por actividades humanas.

Los contaminantes que pueden existir en los lugares de origen del agua incluyen:

- 💧 Contaminantes microbianos, incluyendo los virus y la bacteria que pueden venir de las plantas de tratamiento de aguas negras, de los sistemas sépticos, de las operaciones de ganadería y de la vida silvestre;
- 💧 Contaminantes inorgánicos, como las sales y metales que pueden ocurrir naturalmente o como resultado del desagüe pluvial, industrial, o de alcantarillado, producción de gas natural y petróleo, minería o agricultura;
- 💧 Pesticidas y herbicidas, los cuales pueden venir de varias fuentes tales como la agricultura, del desagüe pluvial y de usos residenciales;
- 💧 Contaminantes químico orgánicas, incluyendo químicos orgánicos volátiles y sintéticos que son productos de procesos industriales y de la producción de petróleo y que pueden provenir de las estaciones de gasolina, desagües pluviales urbanos, aplicación de agricultura y de sistemas sépticos;
- 💧 Contaminantes radioactivos los cuales pueden ocurrir naturalmente o que pueden ser resultados de las actividades de la producción de gas natural y minería.



Para poder asegurarse de que el agua de la llave sea segura para beberse, la Agencia de Protección Ambiental de Los Estados Unidos (USEPA) y la Mesa Directiva de Control de Recursos de Agua Estatal (Mesa Directiva Estatal) ordenan reglamentos que limitan la cantidad de ciertos contaminantes en el agua proporcionada por los sistemas de agua pública. Los reglamentos de la Mesa Directiva Estatal también establecen los límites para contaminantes en el agua embotellada que debe proporcionar la misma protección para la salud pública.

Es muy probable que toda el agua potable, incluyendo el agua embotellada, pueda contener cantidades pequeñas de algunos contaminantes. La presencia de estos contaminantes no necesariamente indica que haya algún riesgo de salud. Usted puede obtener más información acerca de estos contaminantes y los posibles efectos a la salud llamando a la Línea Directa de Agua Potable Segura al teléfono (1-800-426-4791). También puede usted obtener más información sobre el agua potable conectándose a los siguientes sitios web:

<http://water.epa.gov/dwstandards/regulations/drinking-water-standards-and-health-advisory-tables> (USEPA's website)

www.swrcb.ca.gov/drinking_water/certlic/drinkingwater/NotificationLevels.shtml (State Board website)

Los niveles elevados de plomo, si estos estuvieran presentes, pueden causar serios problemas de salud sobre todo para mujeres embarazadas y niños. El plomo en el agua potable viene principalmente de materiales y componentes asociados con líneas de servicios y plomería residencial. La Ciudad de South Gate es responsable de proporcionar el agua potable de alta calidad pero no puede controlar la variedad de materiales usados en los componentes de plomería. Cuando su agua ha estado asentada durante varias horas, usted puede minimizar el potencial para la exposición de plomo dejando correr su agua de su llave durante 30 segundos a 2 minutos antes de usar el agua para beber o cocinar. Si usted está preocupado por el plomo en su agua, usted puede elegir que le hagan pruebas a su agua. Información acerca del plomo en el agua potable, métodos de las pruebas y pasos que usted puede tomar para minimizar ser expuesto están disponibles en la Línea Directa de Agua Potable Segura o en <http://www.epa.gov/safewater/lead>.

¿Debo Tomar Precauciones Adicionales?

Algunas personas pueden ser más vulnerables que otros a los contaminantes en el agua potable. Las personas que tienen problemas inmunológicos, tales como personas que estén en tratamiento para el cáncer como la quimioterapia, personas que han tenido trasplantes de órganos, o personas con VIH/SIDA u otros desordenes inmunológicos, personas de edad avanzada y los bebés pueden ser particularmente susceptibles a correr riesgo a ciertas infecciones. Estas personas deben de consultar a sus proveedores de salud médica para que les guíen sobre que agua beber. Los centros de la USEPA para el Control de Enfermedades tienen una guía acerca de los medios adecuados para disminuir los riesgos de infección de *Cryptosporidium* y otros contaminantes microbianos y están disponibles por la USEPA en la Línea Directa de Agua Potable Segura en el teléfono (1-800-426-4791).

Evaluación Del Origen Del Agua

En el 2003, la Ciudad de South Gate condujo una evaluación del origen de aguas subterráneas. El origen de agua subterránea es considerado más vulnerable que los de pozos de agua. Una copia de la evaluación aprobada puede ser obtenida comunicándose con el Encargado de Operaciones de Agua de South Gate, Ramiro Hernández al (323) 563-5796.

¿Cómo Puedo Participar en las Decisiones Que Me Afectan Sobre Asuntos Acerca del Agua?

El público en general está invitado a asistir a reuniones del Concejo Municipal cada segundo y cuarto martes de cada mes a las 6:30 p.m. en la sala principal del Concejo en el Ayuntamiento en el 8650 California Avenue, South Gate, CA 90280.

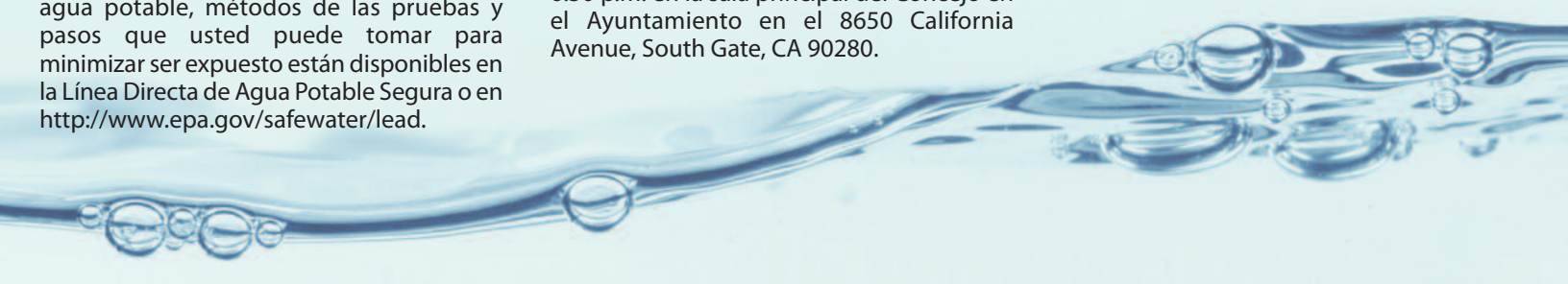
¿Cómo Me Pongo En Contacto Con Mi Agencia del Agua Si Tengo Preguntas Sobre La Calidad del Agua?

Si tiene preguntas específicas sobre la calidad del agua potable, por favor póngase en contacto con Ramiro Hernández, Encargado de Operaciones de Agua de South Gate, al (323) 563-5796.

Algunos Consejos Útiles Para Conservar Agua

- 💧 Arregle las llaves que goteen en su casa - ahorre hasta 20 galones de agua diario por cada gotera que evite.
- 💧 Ahorre entre 15 y 50 galones cada vez que lave porciones máximas al lavar su ropa.
- 💧 Ajuste su sistema de rociadores para que el agua caiga en su jardín o césped y no en la acera o area de estacionamiento - ahorre 500 gallones de agua por mes.
- 💧 Use el estiércol orgánico alrededor de plantas para reducir la evaporación - ahorre cientos de galones al año.
- 💧 Reduzca el tiempo dentro de la regadera y Cierre el agua mientras se cepilla los dientes.
- 💧 Compre dispositivos que conserven agua tales como inodoros y maquinas lavadoras de alta eficiencia.
- 💧 No lave vehículos de motor con manguera, a menos que la manguera tenga una boquilla para cerrar el agua.

Visítenos en la página:
www.cityofsouthgate.org



2017 Water Quality Report

Results are from the most recent testing performed in accordance with state and federal drinking water regulations. The State allows the City to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative, are more than one year old.

PRIMARY STANDARDS MONITORED AT THE SOURCE - MANDATED FOR PUBLIC HEALTH

ORGANIC CHEMICALS (µg/l)	GROUNDWATER		PRIMARY MCL	MCLG or PHG	MAJOR SOURCES IN DRINKING WATER
	AVERAGE	RANGE			
1,1-Dichloroethylene (1,1-DCE)	0.2	ND - 0.7	6	10 (a)	Discharge from industrial chemical factories.
Tetrachloroethylene (PCE) (i)	1.1	0.78 - 2.9	5	0.06 (a)	Discharge from factories, dry cleaners, and auto shops (metal degreaser). Some people who use water containing tetrachloroethylene in excess of the MCL over many years may experience liver problems, and may have an increased risk of getting cancer. The City has taken action using an appropriate treatment technique (TT). Water after treatment is in compliance and below the MCL.
Trichloroethylene (TCE) (i)	1	ND - 2.3	5	1.7 (a)	Discharge from metal degreasing sites and other factories.
INORGANICS Sampled from 2015 to 2017					
Arsenic (µg/l)	1.7	ND - 2.8	10	0.004 (a)	Erosion of natural deposits; glass/electronics production wastes; runoff
Barium (mg/l)	0.1	ND - 0.1	1	2 (a)	Oil drilling waste and metal refinery discharge; erosion of natural deposits
Fluoride (mg/l)	0.3	0.2 - 0.4	2.0	1 (a)	Erosion of natural deposits, water additive that promotes strong teeth
Hexavalent Chromium (µg/l)	1.4	ND - 5.3	-	0.02	Discharge from electroplating factories, leather tanneries, wood preservation, chemical synthesis, refractory production, and textile manufacturing facilities; erosion of natural deposits.
Nitrate (mg/l as N)	1.3	ND - 2.0	10	10 (a)	Runoff and leaching from fertilizer use/septic tanks/sewage, natural erosion
RADIOLOGICAL - (pCi/l) (Results from 2014 to 2017)					
Gross Alpha	1.1	ND - 4.1	15	0	Erosion of natural deposits
Gross Beta	3.8	3.8	50	0	Erosion of natural and man-made deposits
Radium 226	0.1	ND - 0.3	5 (b)	0.05	Erosion of natural deposits
Radium 228	0.0	ND - 0.1	-	0.019	Erosion of natural deposits
Uranium	1.8	ND - 4.1	20	0.43 (a)	Erosion of natural deposits

PRIMARY STANDARDS MONITORED IN THE DISTRIBUTION SYSTEM - MANDATED FOR PUBLIC HEALTH

MICROBIALS	DISTRIBUTION SYSTEM		PRIMARY MCL	MCLG or PHG	MAJOR SOURCES IN DRINKING WATER
	AVERAGE % POSITIVE	RANGE % POSITIVE			
Total Coliform Bacteria	0.0%	0.0%	5%	0%	Naturally present in the environment.
Fecal Coliform and <i>E. Coli</i> Bacteria	0%	0%	0%	0%	Human and animal fecal waste
No. of Acute Violations	0	0	-	-	
MICROBIALS	DISTRIBUTION SYSTEM		PRIMARY MCL	MCLG or PHG	MAJOR SOURCES IN DRINKING WATER
	AVERAGE	RANGE			
Turbidity (NTU)	1.00	ND - 2.0	TT	-	Soil runoff
DISINFECTION BY-PRODUCTS (c) AND DISINFECTION RESIDUALS	DISTRIBUTION SYSTEM		PRIMARY MCL	MCLG or PHG	MAJOR SOURCES IN DRINKING WATER
	HIGHEST RUNNING ANNUAL AVERAGE	RANGE			
Total Trihalomethanes-TTHMS (µg/l)	9.6	0.6 - 9.8	80	-	Byproduct of drinking water chlorination
Haloacetic Acids (µg/l)	7.8	ND - 1.3	60	-	Byproduct of drinking water disinfection
Chlorine/Chloramine Residual (mg/l)	0.7	1.10 - 2.20	4.0 (d)	4.0 (e)	Drinking water disinfectant added for treatment
AT THE TAP PHYSICAL CONSTITUENTS 33 sites sampled in 2015	DISTRIBUTION SYSTEM		ACTION LEVEL (AL)	MCLG or PHG	MAJOR SOURCES IN DRINKING WATER
	90TH PERCENTILE	NUMBER OF SITE ABOVE AL			
Copper (mg/l)	0.18 (f)	6	1.3 AL	0.3 (a)	Internal corrosion of household plumbing, erosion of natural deposits
Lead (µg/l)	1.7 (f)	0	15 AL	0.2 (a)	Internal corrosion of household plumbing, industrial manufacturer discharges

SECONDARY STANDARDS MONITORED AT THE SOURCE - FOR AESTHETIC PURPOSES

Sampled from 2015 to 2017	GROUNDWATER		SECONDARY MCL	MCLG or PHG	MAJOR SOURCES IN DRINKING WATER
	AVERAGE	RANGE			
Aggressiveness Index (corrosivity)	12.1	11.6 - 12.4	Non-corrosive	-	Natural/industrially-influenced balance of hydrogen/carbon/oxygen in water
Chloride (mg/l)	44.8	25.0 - 58.0	500	-	Runoff/leaching from natural deposits, seawater influence
Color (color units)	0.0	0.0	15	-	Naturally-occurring organic materials
Iron (µg/l) (g)	ND	ND	300	-	Leaching from natural deposits, industrial wastes
Manganese (µg/l) (g)	ND	ND	50	-	Leaching from natural deposits
Specific Conductance (uS/cm)	667.8	540 - 760	1,600	-	Substances that form ions when in water, seawater influence
Sulfate (mg/l)	92.8	53.0 - 110.0	500	-	Runoff/leaching from natural deposits, industrial wastes
Total Dissolved Solids (mg/l)	403.3	330 - 500	1,000	-	Runoff/leaching from natural deposits
Turbidity (NTU)	0.1	ND - 0.2	5	-	Soil runoff

SECONDARY STANDARDS MONITORED IN THE DISTRIBUTION SYSTEM - FOR AESTHETIC PURPOSES

GENERAL PHYSICAL CONSTITUENTS	DISTRIBUTION SYSTEM		SECONDARY MCL	MCLG or PHG	MAJOR SOURCES IN DRINKING WATER
	AVERAGE	RANGE			
Color (color units)	ND	ND - 1.0	15	-	Naturally-occurring organic materials
Odor (threshold odor number)	1.0	1	3	-	Naturally-occurring organic materials

ADDITIONAL CHEMICALS OF INTEREST

Sampled from 2015 to 2017	GROUNDWATER	
	AVERAGE	RANGE
Alkalinity (mg/l)	185.0	150 - 200
Calcium (mg/l)	68.2	52 - 85
1,4 - Dioxane (µg/l) (h)	1.3	ND - 2.4
Magnesium (mg/l)	14.5	12.0 - 17.2
pH (standard unit)	7.6	7.1 - 7.9
Potassium (mg/l)	2.8	2.3 - 3.4
Sodium (mg/l)	44.3	37 - 50
Total Hardness (mg/l)	222.7	180 - 260
Total Organic Carbon	0.3	ND - 0.4

ABBREVIATIONS (ABREVIACIONES)

< = less than ♦ SI = saturation index ♦ uS/cm = microSiemens per centimeter ♦ mg/l = milligrams per liter or parts per million (equivalent to 1 drop in 42 gallons) ♦ NA = constituent not analyzed ♦ ND = constituent not detected at the reporting limit ♦ ng/l = nanograms per liter or parts per trillion (equivalent to 1 drop in 42,000,000 gallons) ♦ pCi/l = picoCuries per liter NTU = nephelometric turbidity units ♦ µg/l = micrograms per liter or parts per billion (equivalent to 1 drop in 42,000 gallons)

FOOTNOTES (NOTAS AL PIE DE LA PÁGINA)

(a) California Public Health Goal (PHG). Other advisory levels listed in this column are federal Maximum Contaminant Level Goals (MCLGs). (b) Combined Radium 226 + Radium 228 has a Maximum Contaminant Level (MCL) of 5 pCi/L. (c) Running annual average used to calculate average, range, and MCL compliance. (d) Maximum Residual Disinfectant Level (MRDL) (e) Maximum Residual Disinfectant Level Goal (MRDLG) (f) 90th percentile from the most recent sampling at selected customer taps. (g) The secondary MCL for iron and manganese was exceeded in two wells in 2017 and both wells were out of service. One additional well had elevated levels of iron and manganese but the well was treated prior to distribution. Water after treatment is in compliance and below the secondary MCL. The iron and manganese secondary MCLs are set to protect against unpleasant effects such as color, taste, odor, & staining of laundry/plumbing fixtures. A iron or manganese secondary MCL exceedance does not pose a health risk. (h) The Notification Level of 1 ug/l for 1,4-Dioxane was exceeded in several wells in 2017. Some people who use water containing 1,4-dioxane in excess of the Notification Level over many years may experience liver or kidney problems and may have an increased risk of getting cancer, based on studies in laboratory animals. This well system monitors samples quarterly for 1,4-Dioxane. (i) This well system uses the spray aeration treatment technique to remove Tetrachloroethylene and Trichloroethylene from four (4) of its wells prior to distribution. The data located on the water quality table is representative from the distribution system in 2017. Water after treatment is in compliance and below the MCL.

DEFINITIONS (DEFINICIONES)

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of 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. MCLGs are set by the U.S. Environmental Protection Agency.

Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Notification Level: The level at which notification of the public water system governing body is required. A health-based advisory level for an unregulated contaminant.

Public Health Goal (PHG): The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

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

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

Primary Drinking Water Standards (PDWS): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Secondary Drinking Water Standards (SDWS): MCLs and MRDLs for contaminants that affect the aesthetic qualities of drinking water such as taste, odor, or appearance. Contaminants with SDWSs do not affect the health at the MCL levels.

Variances and Exemptions: Department permission to exceed an MCL or not comply with a treatment technique under certain conditions.



UNREGULATED CONTAMINANT MONITORING REGULATION (UCMR-3)

The Safe Drinking Water Act requires the Environmental Protection Agency (EPA) to identify unregulated contaminants for potential regulations. Every five years, EPA identifies a list of unregulated contaminants to be monitored by the nation's water utilities over a three year period. This occurred in 2013-2015 with the third UCMR (UCMR-3). The City of South Gate has monitored for a total of 29 chemical contaminants from its wells along with a corresponding sampling from the distribution system reflecting water from each well. Once EPA has obtained this occurrence data nationally, they are required to determine if there is a meaningful opportunity for increased health protection of drinking water by regulating these contaminants. The findings from this monitoring are reported in this year's Consumer Confidence Report.

REGLAMENTO DE CONTROL DE CONTAMINANTES NO REGULADOS (UCMR-3)

La Ley de Agua Potable Segura requiere que la Agencia de Protección al Medio Ambiente (USEPA) identifique contaminantes no regulados para posibles reglamentos. Cada cinco años, USEPA identifica una lista de contaminantes no regulados para ser supervisados por las utilidades acuáticas nacionales por un periodo de tres años. Esto ocurrió en 2013-2015 con la tercer UCMR (UCMR-3). La Ciudad de South Gate ha supervisado un total de 29 contaminantes químicos de sus pozos junto con la correspondiente muestra del sistema de distribución reflejando el agua de cada pozo. Una vez que USEPA haya obtenido esta repetición de datos a nivel nacional, se le requiere que determine si existe una oportunidad significativa para aumentar la protección de la salud mediante la regulación de estos contaminantes. Los resultados de este monitoreo son reportados en el informe de este año del Informe de Confianza del Consumidor.

THIRD UNREGULATED CONTAMINANT MONITORING REGULATION (UCMR-3)

Monitored in 2013-2015 CHEMICALS PARAMETERS	AVERAGE	RANGE	MINIMUM REPORTING LEVEL	MAJOR SOURCES IN DRINKING WATER
1,3-Butadiene (ug/l)	0.061	ND - 0.98	0.1	Alkene; used in rubber manufacturing and occurs as a gas.
1,4-Dioxane (ug/l)	0.67	ND - 1.7	0.07	Cyclic aliphatic ether; used as a solvent or solvent stabilizer in manufacture and processing of paper, cotton, textile products, automotive coolant, cosmetics and shampoos.
Bromochloromethane (ug/l)	0.04	ND - 0.48	0.06	Used as a fire-extinguishing fluid, an explosive suppressant, and as a solvent in the manufacturing of pesticides.
Chlorate (ug/l)	98.67	ND - 500	20 ug/l	Agricultural defoliant or desiccant; disinfection byproduct; and used in production of chlorine dioxide.
Hexavalent Chromium (ug/l)	1.38	ND - 4.1	0.03 ug/l	Naturally-occurring element; used in making steel and other alloys; chromium-3 or -6 forms are used for chrome plating, dyes, and pigments, leather tanning and wood preservation.
Total Chromium (ug/l)	0.57	ND - 2.8	0.2 ug/l	Naturally-occurring element; used in making steel and other alloys; chromium-3 or -6 forms are used for chrome plating, dyes, and pigments, leather tanning and wood preservation.
Molybdenum (ug/l)	2.3	ND - 8.7	1 ug/l	Naturally-occurring element found in ores and present in plants, animals and bacteria; commonly used form molybdenum trioxide used as a chemical reagent.
Strontium (ug/l)	284.8	ND - 1000	0.3 ug/l	Naturally-occurring element; historically commercial use of strontium has been in the faceplate glass of cathode-ray tube televisions to block x-ray emission.
Vanadium (ug/l)	1.3	ND - 3.2	0.2 ug/l	Naturally-occurring elemental metal; used as vanadium pentoxide which as a chemical intermediate and a catalyst.

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