

CITY OF SIGNAL HILL 2013 CONSUMER CONFIDENCE REPORT

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.



Where Does My Tap Water Come From?

Your tap water comes from 2 sources: groundwater and surface water. We pump groundwater from local, deep wells located in the Central Groundwater Basin. We also use Metropolitan Water District of Southern California's (MWD) surface water from both the Colorado River and the State Water Project in northern California. These water sources supply our service area shown on the adjacent map. The quality of our groundwater and MWD's surface water supplies is presented in this report.

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 Department of Public Health (Department) regulates tap water quality by enforcing limits that are at least as stringent as the USEPA'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. 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 USEPA and the Department prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that must provide the same protection for public health.

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 USEPA'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/drink/standards/hascience.cfm> US Environmental Protection Agency (USEPA's web site)
- www.cdph.ca.gov/certlic/drinkingwater (California Department of Public Health web site)

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 services lines and home plumbing. The City of Signal Hill 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

MWD completed an assessment of its Colorado River and State Water Project supplies in 2002. Colorado River supplies are considered most vulnerable to recreation, urban/storm water runoff, increasing urbanization in the watershed, and wastewater. State Water Project supplies are considered most vulnerable to urban/storm water runoff, wildlife, agriculture, recreation and wastewater. A copy of the assessment can be obtained by contacting MWD at (213) 217-6850.

The City of Signal Hill conducted an assessment of its groundwater supplies in January 2003. Groundwater supplies are considered most vulnerable to chemical/petroleum processing/storage, metal plating/finishing/fabricating, dry cleaners, automobile gas stations, automobile body shops, automobile repair shops, junk/scrap/salvage yards, and plastics/synthetics producers. A copy of the approved assessment may be obtained by contacting the City of Signal Hill Water Department at (562) 989-7253 or at www.cityofsignalhill.org.

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

The public is welcome to attend our City Council meetings held the first and third Tuesdays of each month at 7:00 p.m. at 2175 Cherry Avenue, Signal Hill, CA 90755

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 Mr. Casey Quinn at (562) 989-7253.

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

Visit us at www.cityofsignalhill.org

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Results are from the most recent testing performed in accordance with state and federal drinking water regulations
The State allows monitoring 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 | | MWD'S SURFACE WATER | | PRIMARY MCL | MCLG or PHG | MAJOR SOURCES IN DRINKING WATER |
|---|-------------|-------------|---------------------|-------------|-------------|-------------|--|
| | AVERAGE | RANGE | AVERAGE | RANGE | | | |
| | (a) | (a) | (a) | (a) | | | |
| INORGANICS Sampled from 2011 to 2013 (b) | | | | | | | |
| Aluminum (mg/l) | 0.01 | ND - 0.05 | 0.15 | 0.07 - 0.23 | 1 | 0.6 (c) | Erosion of natural deposits; residue from surface water treatment processes |
| Arsenic (µg/l) (d) | 3.7 | 2.9 - 6.3 | 0.67 | ND - 2.0 | 10 | 0.004 | Erosion of natural deposits; glass/electronics production wastes; runoff from orchards. Some people who drink water containing arsenic in excess of the MCL over many years may experience skin damage or circulatory system problems, and may have an increased risk of getting cancer. |
| Barium (mg/l) | 0.08 | ND - 0.18 | ND | ND | 1 | 2 (c) | Oil drilling waste and metal refinery discharge; erosion of natural deposits |
| Fluoride (mg/l) (l) | 0.39 | 0.36 - 0.41 | 0.80 | 0.7 - 1.0 | 2.0 | 1 (c) | Erosion of natural deposits, water additive that promotes strong teeth |
| Nitrate (mg/l as NO3) | ND | ND | 2.10 | 1.8 - 2.3 | 45 | 10 (c) | Runoff and leaching from fertilizer use/septic tanks/sewage, natural erosion |
| RADIOLOGICAL - (pCi/l) (Results are from 2007 to 2013) (b) | | | | | | | |
| Gross Alpha | 1.42 | ND-2.6 | 1 | ND - 3.0 | 15 (f) | 0 | Erosion of natural deposits |
| Gross Beta | NA | NA | 1.3 | ND - 6.0 | 50 (f) | 0 | Decay of natural and man-made deposits |
| Combined Radium - 226+228 (e) | 0.61 | 0.18 - 0.81 | ND | ND | 5 | 0 | Erosion of natural deposits |
| Uranium | ND | ND | 1.7 | ND - 2.0 | 20 (f) | 0.43 (c) | Erosion of natural deposits |

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

| MICROBIALS | DISTRIBUTION SYSTEM | | PRIMARY MCL | MCLG or PHG | |
|--|-------------------------|-------------------------|--------------|-------------|--|
| | AVERAGE # POSITIVE | RANGE OF # POSITIVE | | | |
| Total Coliform Bacteria | 0 | 0 | < 1 positive | 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 | - | - | |
| Turbidity (NTU) | | | | | |
| | DISTRIBUTION SYSTEM | | PRIMARY MCL | MCLG or PHG | |
| | AVERAGE | RANGE | TT | - | Soil runoff |
| | 0.04 | <0.1 - 0.3 | | | |
| DISINFECTION BY-PRODUCTS (f) AND DISINFECTION RESIDUALS | | | | | |
| | DISTRIBUTION SYSTEM | | PRIMARY MCL | MCLG or PHG | |
| | HIGHEST RUNNING AVERAGE | RANGE | | | |
| Total Trihalomethanes-TTHMS (µg/l) | 24.6 | 19.0 - 22.8 | 80 | - | By-product of drinking water chlorination |
| Haloacetic Acids (µg/l) | 8 | 6.1 - 8.6 | 60 | - | By-product of drinking water disinfection |
| Total Chlorine Residual (mg/l) | 1.6 | 0.2 - 3.3 | 4.0 (h) | 4.0 (i) | Drinking water disinfectant added for treatment |
| AT THE TAP PHYSICAL CONSTITUENTS 21 sites sampled in 2013 | | | | | |
| | DISTRIBUTION SYSTEM | | ACTION LEVEL | MCLG or PHG | |
| | 90%ile (j) | # OF SITES ABOVE THE AL | AL | | |
| Copper (mg/l) | 0.2 | 0 | 1.3 AL | 0.3 (c) | Internal corrosion of household plumbing, erosion of natural deposits |
| Lead (µg/l) | 7.9 | 2 | 15 AL | 2 (c) | Internal corrosion of household plumbing, industrial manufacturer discharges. 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/or flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from USEPA Safe Drinking Water Hotline (1-800-426-4791). |

SECONDARY STANDARDS MONITORED AT THE SOURCE-FOR AESTHETIC PURPOSES

Sampled from 2011 to 2013

| | GROUNDWATER | | MWD'S SURFACE WATER | | SECONDARY | MCLG | |
|------------------------------------|-------------|-----------|---------------------|-------------|---------------|---------|--|
| | AVERAGE | RANGE | AVERAGE | RANGE | MCL | or PHG | |
| Aggressiveness Index (corrosivity) | 12 | 12 | 12.2 | 12.0 - 12.3 | Non-corrosive | - | Natural/industrially-influenced balance of hydrogen/carbon/oxygen in water |
| Aluminum (µg/l) (k) | 13.3 | ND - 53 | 153 | 67 - 230 | 200 | 600 (c) | Erosion of natural deposits, surface water treatment process residue |
| Chloride (mg/l) | 21 | 19 - 23 | 83.3 | 75 - 91 | 500 | - | Runoff/leaching from natural deposits, seawater influence |
| Color (color units) | 3 | ND - 7.5 | 1.3 | 1.0 - 2.0 | 15 | - | Naturally-occurring organic materials |
| Specific Conductance (uS/cm) | 395 | 350 - 440 | 763.3 | 520 - 900 | 1,600 | - | Substances that form ions when in water, seawater influence |
| Iron (µg/l) (d) | ND | ND | ND | ND | 300 | - | Leaching from natural deposits, industrial wastes |
| Manganese (µg/l) (d) | ND | ND | ND | ND | 50 | - | Leaching from natural deposits |
| Odor (threshold odor number) | 0.86 | ND - 17 | 3.3 | 3.0 - 6.0 | 3 | - | Naturally-occurring organic materials. |
| Sulfate (mg/l) | 31.5 | 22 - 41 | 139.3 | 44 - 200 | 500 | - | Runoff/leaching from natural deposits, industrial wastes |
| Total Dissolved Solids (mg/l) | 255 | 220 - 290 | 453.3 | 280 - 560 | 1,000 | - | Runoff/leaching from natural deposits |
| Turbidity (NTU) | 0.38 | ND - 1.2 | ND | ND | 5 | - | Soil runoff |

SECONDARY STANDARDS MONITORED IN THE DISTRIBUTION SYSTEM-FOR AESTHETIC PURPOSES

| GENERAL PHYSICAL CONSTITUENTS | DISTRIBUTION SYSTEM | | SECONDARY | MCLG | |
|-------------------------------|---------------------|-------|-----------|--------|---------------------------------------|
| | AVERAGE | RANGE | MCL | or PHG | |
| Color (color units) | <3.0 | <3.0 | 15 | - | Naturally-occurring organic materials |
| Odor (threshold odor number) | 1 | 1 | 3 | - | Naturally-occurring organic materials |

ADDITIONAL CHEMICALS OF INTEREST

Sampled from 2011 to 2013

| | GROUNDWATER | | MWD'S SURFACE WATER | |
|-------------------------------|-------------|-----------|---------------------|------------|
| | AVERAGE | RANGE | AVERAGE | RANGE |
| Alkalinity (mg/l) | 140 | 130 - 150 | 101 | 76 - 130 |
| Boron (µg/l) | NA | NA | 150 | 140 - 160 |
| Calcium (mg/l) | 37 | 27 - 47 | 47.3 | 22 - 61 |
| Magnesium (mg/l) | 3.1 | 2.2 - 3.9 | 18.7 | 12 - 23 |
| N-Nitrosodimethylamine (ug/l) | NA | NA | 0.001 | ND - 0.005 |
| pH (standard unit) | 8.2 | 8.1 - 8.2 | 8.2 | 8.1 - 8.4 |
| Potassium (mg/l) | 2.2 | 1.7 - 2.7 | 3.7 | 2.6 - 4.4 |
| Sodium (mg/l) | 44.5 | 44 - 45 | 74.7 | 57 - 87 |
| Total Hardness (mg/l) | 102.5 | 75 - 130 | 200 | 110 - 250 |
| Total Organic Carbon (mg/l) | NA | NA | 2.3 | 1.8 - 2.7 |

FOOTNOTES

- (a) Over 50 regulated and unregulated organic chemicals were analyzed. None were detected at or above the reporting limit in groundwater or surface water sources.
- (b) Indicates dates sampled for groundwater sources only.
- (c) California Public Health Goal (PHG). Other advisory levels listed in this column are federal Maximum Contaminant Level Goals (MCLGs).
- (d) While your drinking water meets the federal and state standard for arsenic, it does contain low levels of arsenic. The arsenic standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. The US Environmental Protection Agency continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems. **For this well system, the filtration treatment technique is used to remove arsenic, iron, and manganese from the water prior to distribution. The data located on the water quality table is representative from the distribution system in 2013. Water after treatment is in compliance and below the MCL.**
- (e) State MCL is 5 pCi/L for combined Radium-226 and -228.
- (f) MCL compliance based on 4 consecutive quarters of sampling.
- (g) Running annual average used to calculate average, range, and MCL compliance.
- (h) Maximum Residual Disinfectant Level (MRDL)
- (i) Maximum Residual Disinfectant Level Goal (MRDLG)
- (j) 90th percentile from the most recent sampling at selected customer taps.
- (k) Aluminum has primary and secondary standards.
- (l) MWD started adding flouride at each treatment plant in fall 2007. MWD was in compliance with the provisions of the State's requirements

ABBREVIATIONS

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

DEFINITIONS

- 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 of microbial contaminants.
- Maximum Residual Disinfectant Level Goal (MRDLG):** The level of a drinking water 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.
- 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 that 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 Water Standards (SDWS):** MCLs and MRDLs for contaminants that affect the aesthetic qualities, such as taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.
- Variations and Exemptions:** Department permission to exceed an MCL or not comply with a treatment technique under certain conditions.

CIUDAD DE SIGNAL HILL

INFORME DE CONFIANZA DE CONSUMIDOR de 2013

Desde 1991, las agencias proveedoras de recursos hidráulicos de California han emitido información sobre el agua que se provee al consumidor. Este informe es una copia del informe sobre la calidad del agua potable que le proveímos el año pasado. Incluimos detalles sobre el origen del agua que toma, 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 proveerle un abastecimiento confiable y económico que cumpla con todos los requisitos.

¿De Dónde Proviene el Agua que Tomo?

Su agua de la llave proviene de 2 fuentes: de las aguas naturales (subterránea) y de aguas superficiales (de los ríos). Bombeamos aguas naturales de profundos pozos locales. También usamos agua superficial de la agencia Metropolitan Water District del Sur de California (MWD) importada del Río Colorado y del proyecto State Water Project del Norte de California. Estas dos fuentes de agua nos abastecen en las áreas de servicio que se muestran en el mapa adjunto. Este reporte informa sobre la calidad de nuestra agua subterránea y el abastecimiento del agua superficial del MWD.

¿Cómo Se Analiza Mi Agua Potable?

El agua que toma se analiza regularmente para asegurarnos de que no halla niveles altos de sustancias químicas, de radioactividad o de bacteria en el sistema de distribución y en las tomas de servicios. Estos análisis se llevan a cabo semanal, mensual, trimestral, y anualmente o con más frecuencia, dependiendo de la sustancia analizada. Bajo las leyes estatales y federales, se nos permite analizar algunas sustancias menos frecuentemente que los periodos anuales porque los resultados no cambian.

¿Cuales Son Los Estándares del Agua Potable?

La Agencia federal de Protección al Medio Ambiente (USEPA) impone los límites de las cantidades de ciertos contaminantes en el agua potable. En California, el Ministerio de Asuntos Exteriores de la Salud Pública (Departamento) regula la calidad de agua del grifo haciendo cumplir límites que son al menos tan rigurosos como el USEPA'S. Historicamente, los estándares de California han sido más estrictos que los federales.

Hay dos tipos de límites conocidos como estándares. Los estándares primarios lo protegen de sustancias que potencialmente podrían afectar su salud. Las normas establecen los Niveles Contaminantes Máximos (MCL, en inglés) que se permite del contaminante primario o secundario en el agua de beber. Los abastecedores de agua deben asegurarse de que la calidad de esta cumpla con los Niveles Contaminantes Máximos (o MCLs, en inglés). No todas las sustancias tienen un Nivel Contaminante Máximo. El plomo y el cobre, por ejemplo, son regulados, por cierto nivel de acción. Si cualquier sustancia química sobrepasa el nivel de acción, se dará la necesidad de un proceso de tratamiento para rebajar los niveles en el agua de beber. Los abastecedores de agua deben cumplir con los Niveles Contaminantes Máximos para asegurar la calidad del agua.

Las Metas para la Salud Pública (MSP [o PHGs, en inglés]) son establecidas por la agencia estatal de California-EPA. Las PHGs proveen más información con respecto a la calidad del agua, y son similares a los reglamentos federales nombrados Metas para Los Niveles de Contaminante *Maximos* (MNCM [o MCLGs, en inglés]). Las PHGs y MCLGs son metas a nivel recomendable. Las PHG y MCLG son ambas definidas como los niveles de contaminantes en el agua potable por debajo de los niveles donde no se esperan riesgos a la salud y no enforzables. Ambos niveles PHG y MCLG son concentraciones de una sustancia en las que no hay riesgos a la salud aún conocidos.

¿Cómo Interpreto Mi Informe de Calidad del Agua?

Aunque analizamos más de 100 sustancias, las normas nos requirieron que reportemos solo aquellas que se encuentran en el agua. La primer columna en la tabla de la calidad de agua muestra la lista de las sustancias detectadas en el agua. La siguiente columna muestra la lista de la concentracion promedio y el rango de concentraciones que se hallan encontrado en el agua que usted toma. En seguida están las listas de el MCL, el PHG y el MCLG, si estos son apropiados. La última columna describe las probables fuentes u origen de las sustancias detectadas en el agua potable.

Para revisar la calidad de su agua de beber, compare los valores por encima del promedio, mínimos y máximos y el Nivel Contaminante Máximo. Revise todos los químicos que se encuentran por encima del Nivel Contaminante Máximo. Si los químicos sobrepasan el Nivel Contaminante Máximo no significa que sea detrimental a la salud de inmediato. Más bien, se requiere que se realicen análisis más frecuentemente en el abastecimiento del agua por un corto período. Si los resultados muestran sobrepasar el MCL, el agua debe ser tratada para remover esa sustancia, o el abastecimiento de esta debe decomisionarse.

¿Por Qué Hay Tanta Publicidad Sobre La Calidad Del Agua Potable?

Las fuentes del agua potable (de ambas agua de la llave y agua embotellada) incluye ríos, lagos, arroyos, lagunas, embalses, manantiales, y pozos. Al pasar el agua por la superficie de los suelos o por la tierra, se disuelven minerales que ocurren al natural, y en algunas ocasiones, material radioactivo, al igual que pueden levantar sustancias generadas por la presencia de animales o por actividades humanas.

Entre los contaminantes que pueden existir en las fuentes de agua se incluyen:

- Contaminantes microbiales como los virus y la bacteria, los que pueden venir de las plantas de tratamiento de aguas negras, de los sistemas sépticos, de las operaciones de ganadería, y de la vida salvaje;
- Contaminantes inorgánicos, como las sales y los metales, los cuales pueden ocurrir naturalmente o como resultado del desagüe pluvial, industrial, o de alcantarillado, producción de gas natural y petróleo, minas y agricultura.
- Pesticidas y herbicidas, los cuales pueden venir de varias fuentes tales como la agricultura, del desagüe pluvial, y de usos residuales;
- Contaminantes de otras sustancias químicas 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, y agricultura aplicación 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 asegurarse que el agua potable sea saludable, la USEPA y el Departamento impone reglamentos que limitan las cantidades de ciertos contaminantes en el agua que los sistemas públicos de agua proveen. Los reglamentos de Departamento también establecen límites de contaminantes en el agua embotellada la cual debe proveer la misma protección a la salud pública.

Toda el agua potable, incluyendo el agua embotellada, puede contener cantidades pequeñas de ciertos contaminantes. La presencia de contaminantes no necesariamente indica que haya algún riesgo de salud. Para más información acerca de contaminantes y riesgos a la salud favor de llamar a la USEPA encargada de proteger el agua potable al teléfono (1-800-426-4791). Usted puede obtener más información sobre el agua potable al conectarse al Internet en los siguientes domicilios:

- <http://water.epa.gov/drink/standards/hascience.cfm> (el sitio Web del USEPA)
- www.cdph.ca.gov/certific/drinkingwater (sitio Web de Departamento de Salud Pública)

Si presente, los niveles elevados del plomo pueden causar el problemas de salud serio, sobre todo para mujeres embarazadas y chiquitos. El plomo en el agua potable es principalmente de materiales y componentes asociados con líneas de servicios y a casa fontanería. La Ciudad de la Colina de Señal es responsable de proporcionar el agua potable de alta calidad, pero no puede controlar la variedad de materiales usados en la fontanería de componentes. Cuando su agua ha estado sentándose durante varias horas, usted puede minimizar el potencial para la exposición de plomo limpiando con agua su grifo durante 30 segundos a 2 minutos antes de usar el agua para beber o cocinarse. Si usted está preocupado por el plomo en su agua, usted puede desear hacer probar su agua. La información en el plomo en el agua potable, probando métodos, y pasos que usted puede tomar para minimizar la exposición está disponible de la Línea directa de Agua Potable Segura o en [http:// www.epa.gov/safewater/lead](http://www.epa.gov/safewater/lead).

¿Debería Tomar Otras Precauciones?

Algunas personas pueden ser más vulnerables a los contaminantes en el agua potable que el público en general. Las personas que tienen problemas inmunológicos, o sea esas personas que estén en tratamiento por medio de quimioterapia cancerosa; personas que tienen órganos transplantados, o personas con SIDA o desordenes inmunológicos, personas de edad avanzada, y los bebés que son particularmente susceptibles a ciertas infecciones. Estas personas deben de consultar a sus proveedores de salud médica. Las guías de la USEPA/Centros de Control de Enfermedades aconsejan cómo disminuir los riesgos para prevenir la infección de Cryptosporidium y otros contaminantes microbiales están disponibles por teléfono de la USEPA encargada de proteger el agua potable al teléfono (1-800-426-4791).

Valoración de su Abastecimiento de Agua

El distrito Metropolitano de agua del Sur de California completo una valoración de su abastecimiento del Río Colorado y del Proyecto de Agua del Estado en el 2002. El abastecimiento del Río Colorado es considerado más vulnerable a la recreación, al agua que corre de la ciudad después de una tormenta, a la creciente urbanización en la cuenca, y aguas residuales. El Proyecto de abastecimiento de agua del Estado es considerado más vulnerable al agua que corre de la ciudad después de una tormenta, a la fauna, la agricultura, la recreación, y aguas residuales. Teléfono el distrito Metropolitano de agua del Sur de California para un copie de una valoración al (213) – 217-6850.

La Ciudad de la Colina de Señal condujo una evaluación de sus provisiones de agua subterránea en el enero de 2003. Las provisiones de agua subterránea son consideradas el más vulnerables a procesamiento/almacenaje químico/de petróleo, enchapado/acabamiento/fabricación metálico, secan a encargados de limpieza, gasolineras de coche, tiendas de cuerpo de coche, tiendas de reparación de autos, desechan/desechan/salvan yardas, y productores de plásticos/fibras sintéticas. Una copia del informe de evaluación pueden obtenerse poniéndose en contacto con la ciudad de Signal Hill Departamento de Agua al (562) 989-7251.

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

El público es bienvenido a asistir a las reuniones del Consejo de nuestra ciudad celebró el primer y tercer martes de cada mes a las 7:00 pm en 2175 Cherry Avenue, Signal Hill, CA 90755

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

Si usted tiene preguntas específicas sobre su calidad de agua del grifo, por favor póngase en contacto con Sr. Rick Olson en (562) 989-7251. Visítenos en la página www.cityofsignalhill.org

Algunas extremidades provechosas de la conservación del agua

- Arreglar los grifos que gotean en su hogar - excepto hasta 20 galones cada día por cada detenido de fugas
- Guardar entre 15 y 50 galones por cada vez que el lavado sólo cargas completas de ropa
- Ajuste sus regaderas de modo que el agua caiga en su césped / jardín, no la acera / calzada - excepto 500 galones por mes
- Utilice pajote orgánico alrededor de las plantas para reducir la evaporación - guardar cientos de galones por año

DISINFECTION BYPRODUCTS

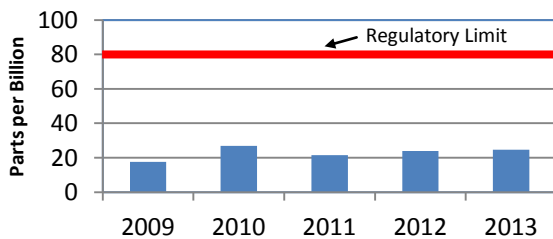
The City of Signal Hill has a long history of providing safe, high quality water service to the community. The Water Department staff takes great pride in operating and maintaining a reliable and efficient water system serving more than 11,000 residents and commercial customers. As required by state and federal regulations, the Water Department takes over 1,000 water quality samples per year and these samples are tested by independent laboratories for potentially harmful levels of chemicals, radioactivity, and bacteria, which could pose health risks.

Water samples are taken before and after the water has been treated to remove potentially harmful substances. The tables shown on page 3 and page 4 of this report list all the constituents that are tested for. Depending on the Constituent, tests are performed weekly, monthly, quarterly, or annually. It should also be noted that overall system water quality is monitored continuously on a 24-hour basis seven days a week by State certified water system operators.

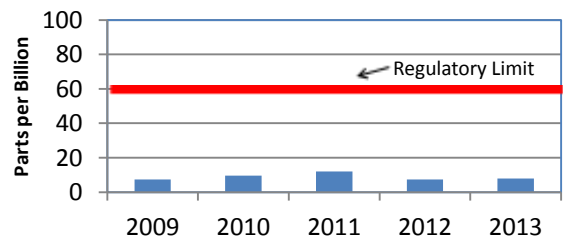
The City's water treatment plant is designed to both remove potentially harmful substances from drinking water and disinfect the water before distribution into the water system. A common side effect of disinfecting drinking water is the formation of disinfection by-products known as Total Trihalomethanes* (TTHM) and Haloacetic Acids (HAA5)**. The City is required to test for these disinfection by-products on a quarterly basis. The Maximum Contaminant Level (MCL) for TTHM and HAA5 is 80 parts per billion and 60 parts per billion, respectively, based on a locational running annual average (A "parts per billion" = 1 milliliter of water in an Olympic sized swimming pool). The City's drinking water has never exceeded these MCLs in the 25 years that the City has been testing for these constituents. The graphs below show the average annual concentration of disinfection by products over the last 5 years.

Disinfection by Products Results 5-Year History

TTHM Concentration



HAA5 Concentration



We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During May 2013, we did not monitor or test for TTHM* and HAA5**, and therefore, cannot be sure of the quality of your drinking water during that time. As a result, the City received a Citation for Noncompliance from the California Department of Public Health on November 7, 2013 because the Water Department did not take the 2nd quarter testing sample sets for disinfection by-products (TTHM* and HAA5**). The Water Department has since added additional check and review procedures as part of its on-going water quality and monitoring program.

While we are not certain of TTHM and HAA5 levels in May 2013, our historic concentrations have not been an issue.

*TTHM is the sum of the following analytes:

Bromodichloromethane
Bromoform
Dibromochloromethane
Chloroform

**HAA5 is the sum of the following analytes:

Dichloroacetic acid
Trichloroacetic acid
Chloroacetic acid
Bromoacetic acid
Dibromoacetic acid

CITY OF SIGNAL HILL
2175 EAST 28TH STREET
SIGNAL HILL, CA 90755

CITY OF SIGNAL HILL 2013 CONSUMER CONFIDENCE REPORT

**CITY OF SIGNAL HILL
2013 CONSUMER CONFIDENCE REPORT**



Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien. Para obtener una copia en Español, llame a (562) 989-7253

Daimntawv tshaj tawm no muaj lus tseemceeb txog koj cov dej haus. Tshab txhais nws, los yog tham nrog tej tug neeg uas f otaub txog nws.

此报告共有供水报告,内右重要资讯和显示,请找他人为您翻译及解释内容。

**この情報は重要です。
翻訳を依頼してください。**

Chi tiet này thật quan trọng.
Xin nhờ người dịch cho quý vị.

이 인구는 매우 중요함니다.
본인을 위해 번역인을 사용하십시오.