

**SAN GABRIEL VALLEY WATER COMPANY  
-ANNUAL WATER QUALITY REPORT-  
-YEAR 2005-**

**This report contains important information about your drinking water.  
Este informe contiene información muy importante sobre su agua potable.  
Tradúzcalo o hable con alguien que lo entienda bien.**

此份有关你的食水报告, 内有重要资料和讯息, 请找他人为你翻译及解释清楚。

The source of water provided to all of San Gabriel Valley Water Company's customers, except those located in a portion of the City of Montebello south of the Pomona Freeway and those customers in the Whittier/Santa Fe Springs area south of Beverly Boulevard, is groundwater from the Main San Gabriel Basin. The source of water provided to customers in the City of Montebello south of the Pomona Freeway is surface water purchased from the Metropolitan Water District of Southern California and is shown as Surface Water in this report. The source of water provided to customers in the Whittier/Santa Fe Springs area south of Beverly Boulevard is groundwater from the Main San Gabriel Basin and The Central Basin.

All water samples are collected by state-certified employees of the water company or independent engineering firms. Samples are analyzed by state-certified independent laboratories and the results are forwarded to the California Department of Health Services. The water supplied by San Gabriel Valley Water Company meets all state and federal safe drinking water standards.

**DETECTED WATER QUALITY CONSTITUENTS - GROUNDWATER**

**Microbiological**

<b>Water Quality Constituent</b>	<b>Units</b>	<b>PHG or MCLG</b>	<b>MCL</b>	<b>Highest Percentage of Positive Samples Collected</b>	<b>Sample Year</b>	<b>Likely Source Of Detected Constituent</b>
Total Coliform Bacteria	%	0	(a)	0.0%	2005	Naturally present in the environment

**Radiochemicals**

<b>Water Quality Constituent</b>	<b>Units</b>	<b>PHG or MCLG</b>	<b>MCL</b>	<b>Range</b>	<b>Average</b>	<b>Sample Year</b>	<b>Likely Source Of Detected Constituent</b>
Gross Alpha	pCi/L	0	15	ND - 6.3	3.0	2005	Erosion of natural deposits
Radon	pCi/L	NS	NS	105 - 387	226	1999	Erosion of natural deposits

**Inorganics**

Arsenic	ppb	0.004	50	ND - 3.5	1.8	2005	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Barium	ppm	2	1	ND - 0.14	0.08	2005	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits
Fluoride	ppm	1.0	2.0	0.3 - 1.0	0.4	2005	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate (as NO3)	ppm	45	45	2.5 - 9.2	6.7	2005	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits

**Volatile Organics**

Trichloroethylene	ppb	0.8	5	ND - 0.8	ND	2005	Discharge from metal degreasing sites and other factories
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**Secondary Standards (Aesthetic Standards)**

Chloride	ppm	NS	500	13 - 140	47	2005	Runoff and leaching from natural deposits
Color	units	NS	15	<3	<3	2005	Naturally-occurring organic materials
Hardness (CaCO3)	ppm	NS	NS	160 - 380	228	2005	Runoff and leaching from natural deposits
Odor---Threshold	units	NS	3	1	1	2005	Naturally-occurring organic materials
Sodium	ppm	NS	NS	10 - 83	36	2005	Runoff and leaching from natural deposits
Specific Conductance	µmho/cm	NS	1600	410 - 1000	591	2005	Substances that form ions when in water
Sulfate	ppm	NS	500	ND - 210	66	2005	Runoff and leaching from natural deposits; industrial wastes
Total Dissolved Solids	ppm	NS	1000	ND - 710	348	2005	Runoff and leaching from natural deposits
Turbidity (b)	units	NS	5	ND - 0.8	ND	2005	Soil runoff

**Additional Constituents (Unregulated)**

Alkalinity (CaCO3)	ppm	NS	NS	120 - 220	177	2005	Unknown
Calcium	ppm	NS	NS	48 - 120	70	2005	Unknown
Hexavalent Chromium	ppb	NS	NS	ND - 6.7	3	2005	Unknown
Magnesium	ppm	NS	NS	8.5 - 22.0	12.8	2005	Unknown
N-Nitrosodimethylamine	ppb	NS	NS	0.2 - 3.2	2.4	2005	Unknown
pH	units	NS	NS	6.9 - 8.2	7.5	2005	Unknown
Potassium	ppm	NS	NS	1.2 - 5.2	3.1	2005	Unknown

**DETECTED WATER QUALITY CONSTITUENTS - SURFACE WATER**

**Clarity**

Water Quality Constituent	Units	MCL	MCLG	Level Found	Range	Likely Source Of Detected Constituent
Turbidity (c)	NTU %	TT = 1NTU	N/A	0.08	N/A	Soil runoff
		TT = 95% of Samples ≤0.3	N/A	100% (d)	N/A	

**Microbiological**

Water Quality Constituent	Units	PHG or MCLG	MCL	Highest Percentage of Positive Samples Collected	Sample Year	Likely Source Of Detected Constituent
Total Coliform Bacteria	%	0	(a)	0.0%	2005	Naturally present in the environment

**Radiochemicals**

Water Quality Constituent	Units	PHG or MCLG	MCL	Range	Average	Sample Year	Likely Source Of Detected Constituent
Radon	pCi/L	NS	NS	ND - 119	ND	2002	Erosion of natural deposits

**Inorganics**

Aluminum	ppm	0.6	1	ND - 0.08	ND	2005	Erosion of natural deposits; residue from some surface water treatment processes
Fluoride	ppm	1	2	0.11 - 0.21	0.17	2005	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate (as N)	ppm	10	10 (e)	ND - 1.1	0.5	2005	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits

**Secondary Standards (Aesthetic Standards)**

Chloride	ppm	NS	500	63 - 85	75	2005	Runoff and leaching from natural deposits
Color	units	NS	15	ND - 3.0	<3	2005	Naturally-occurring organic materials
Hardness (CaCo3)	ppm	NS	NS	157 - 222	186	2005	Runoff and leaching from natural deposits
Odor---Threshold	units	NS	3	1	1	2005	Naturally-occurring organic materials
Sodium	ppm	NS	NS	70 - 93	80	2005	Runoff and leaching from natural deposits
Specific Conductance	µmho/cm	NS	1600	670 - 876	766	2005	Substances that form ions when in water
Sulfate	ppm	NS	500	134 - 206	164	2005	Runoff and leaching from natural deposits; industrial wastes
Total Dissolved Solids	ppm	NS	1000	391 - 532	452	2005	Runoff and leaching from natural deposits
Turbidity (b)	units	NS	5.0	ND - 0.2	ND	2005	Soil runoff

**Additional Constituents (Unregulated)**

Alkalinity	ppm	NS	NS	76 - 100	87	2005	Unknown
Boron	ppm	NS	NS	0.13 - 0.19	0.15	2005	Unknown
Calcium	ppm	NS	NS	35 - 52	42	2005	Unknown
Magnesium	ppm	NS	NS	17 - 23	20	2005	Unknown
pH	units	NS	NS	8.1 - 8.4	8.2	2005	Unknown
Potassium	ppm	NS	NS	3.2 - 4.0	3.7	2005	Unknown
Total Organic Carbon	ppm	NS	NS	1.8 - 3.2	2.4	2005	Unknown
Vanadium	ppb	NS	NS	3.0 - 3.6	3.3	2005	Unknown

**DISINFECTANT/DISINFECTION BY-PRODUCTS**

**Groundwater**

Water Quality Constituent	Units	PHG (MCLG) [MRDLG]	MCL [MRDL]	Range	Average	Sample Year	Likely Source Of Detected Constituent
Total Trihalomethanes	ppb	NS	80	ND - 9.8	4.3	2005	By-product of drinking water chlorination
Haloacetic Acids	ppb	NS	60	ND - 6.1	1.3	2005	By-product of drinking water chlorination
Chlorine	ppm	[4]	[4]	0.40 - 2.50	0.96	2005	Drinking water disinfectant added for treatment
Chlorate	ppb	NS	NS	32 - 160	73	2005	By-product of drinking water chlorination

**Surface Water**

Total Trihalomethanes	ppb	NS	80	48 - 78	71	2005	By-product of drinking water chlorination
Haloacetic Acids	ppb	NS	60	14 - 45	44	2005	By-product of drinking water chlorination
Chlorine	ppm	[4]	[4]	0.82 - 2.55	2.03	2005	Drinking water disinfectant added for treatment
Chlorate	ppb	NS	NS	28 - 78	50	2005	By-product of drinking water chlorination

Pursuant to Title 22 of the California Code of Regulations, Lead and Copper monitoring was completed. The following table summarizes the results of the groundwater and surface water monitoring.

**LEAD AND COPPER MONITORING (Groundwater, 50 SAMPLES TAKEN)**

Water Quality Constituent	Units	Action Level	Sample Year	90th Percentile	Number Of Samples Exceeding The Action Level	Likely Source Of Detected Constituent
Lead	ppb	15	2005	2	0	Internal Corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper	ppb	1300	2005	190	0	Internal Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

**LEAD AND COPPER MONITORING (Surface Water, 20 SAMPLES TAKEN)**

Water Quality Constituent	Units	Action Level	Sample Year	90th Percentile	Number Of Samples Exceeding The Action Level	Likely Source Of Detected Constituent
Lead	ppb	15	2004	2	0	Internal corrosion of household water plumbing systems; discharge from industrial manufacturers; erosion of natural deposits
Copper	ppb	1300	2004	100	0	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

**The EPA and California Department of Health Services require that San Gabriel Valley Water Company provide the following information:**

*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).*

*Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/Centers for Disease Control (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 (1-800-426-4791).*

*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, 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.*

*Radon: Radon is a naturally occurring gas that you can't see, taste, or smell. It is found throughout the U.S. Radon can move up through the ground and into a home through cracks and holes in the foundation. Radon can build up to high levels in all types of homes. Radon can also get into indoor air when released from tap water from showering, washing dishes, and other household activities. Compared to radon entering the home through soil, radon entering the home through tap water will in most cases be a small source of radon in indoor air. Radon is a known human carcinogen. Breathing air containing radon can lead to lung cancer. Drinking water containing radon may also cause increased risk of stomach cancer. If you are concerned about radon in your home, test the air in your home. Testing is inexpensive and easy. Fix your home if the level of radon in your air is 4 picocuries per liter of air (pCi/L) or higher. There are simple ways to fix a radon problem that are not too costly. For additional information, call your State radon program or call EPA's Hotline (800-SOS-RADON).*

*In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (USEPA) and the California Department of Health Services prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The California Department of Health Services regulations also establish limits for contaminants in bottled water that must provide the same protection for public health.*

*San Gabriel Valley Water Company completed groundwater source assessments in 2002. Groundwater sources are considered vulnerable to discharge from industry, factories, landfills, dry cleaners, automobile repair shops, gas stations, high density housing, fleet truck and bus terminals, underground storage tanks, and sewer collection systems. All groundwater sources are treated and/or disinfected prior to entry into the distribution system. Copies of the groundwater source assessments are available for review at San Gabriel Valley Water Company's main office.*

#### **Additional Water Quality Information**

In addition to the constituents listed in this report, San Gabriel Valley Water Company conducted monitoring for over 100 additional constituents and the results show none of those constituents detected in the water. Included in this additional monitoring were constituents for which the California Department of Health Services and U.S. Environmental Protection Agency have not yet set standards. The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old. For additional water quality information, contact: Robert K. Young, Water Quality Manager at (626) 448-6183, or write to San Gabriel Valley Water Company, Post Office Box 6010, El Monte, California 91734-2010.

This report is posted on the internet at [www.sgywater.com](http://www.sgywater.com)

#### **Definitions and Footnotes:**

MCL = (Maximum Contaminant Level): 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.

MCLG = (Maximum Contaminant Level Goal): 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.

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

MRDLG = (Maximum Residual Disinfectant Level Goal): The level of a disinfectant added for water treatment below which there is no known or expected risk to health. MRDLGs are set by the U.S. Environmental Protection Agency.

NTU = Nephelometric Turbidity Units

PHG = (Public Health Goal): 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.

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

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

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

pCi/L = picocuries per Liter

NS = No Standard

ND = None Detected

ppm = parts per million

ppb = parts per billion

< = less than

µmho/cm = micromhos per centimeter

(a) = When 40 or more routine samples are collected per month, no more than 5% of the samples may be total coliform positive.

(b) = Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of water quality. High turbidity can hinder the effectiveness of disinfectants.

(c) = Turbidity is a measure of the cloudiness of the water. Metropolitan Water District monitors it because it is a good indicator of the effectiveness of their filtration system.

(d) = 100% of the turbidity samples taken during 2005 were less than the MCL of 0.3 NTU.

(e) = State MCL is 45 mg/L as Nitrate, which equals 10 mg/L as N.