



# County of San Diego

**JEFF C. MONEDA**  
DIRECTOR

DEPARTMENT OF PUBLIC WORKS  
5510 OVERLAND AVENUE, SUITE 410  
SAN DIEGO, CA 92123-1237  
(858) 694-2212  
[www.sdcounty.ca.gov/dpw/](http://www.sdcounty.ca.gov/dpw/)

June 18, 2020

TO: Valued Customer

FROM: Daniel S. Brogadir, LUEG Program Manager  
Department of Public Works

## **2019 CONSUMER CONFIDENCE REPORT – SAN PASQUAL ACADEMY WATER SYSTEM**

The County of San Diego is pleased to provide you the annual Consumer Confidence Report. Last year, as in the past, your drinking water met all California and U.S. Environmental Protection Agency health standards. This report provides a snapshot of the quality of water provided to customers of the San Pasqual Academy water system by the County of San Diego. Included are details about where your water comes from, what it contains, and how it compares to state and federal standards. The County of San Diego is committed to providing you with this timely information.

In order to ensure that tap water is safe to drink, the California State Water Resource Control Board, Division of Drinking Water, regulates contaminants in the water provided by public water systems. 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 the water poses a health risk.

Sources of drinking water (both tap and bottled) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of 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.

During the period between January 1, 2019 and December 31, 2019, the County of San Diego, through a state-certified laboratory, conducted tests for drinking water contaminants. Test results documented that the drinking water met all state and federal primary drinking water standards.

If you have any questions or require further information, please contact Jim Dohrer, Wastewater Facilities Supervisor, at (858) 204-1648 or e-mail at [James.Dohrer@sdcounty.ca.gov](mailto:James.Dohrer@sdcounty.ca.gov).

<b>Daniel S. Brogadir</b>	Digitally signed by Daniel S. Brogadir Date: 2020.06.16 12:25:47 -07'00'
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DANIEL S. BROGADIR, LUEG Program Manager

cc: Jamelle McCullough (O564); Kyehee Kim (O384)

# 2019 Consumer Confidence Report

Water System Name: San Pasqual Academy (3700968)

Report Date: June 30, 2020

*We test the drinking water quality for many constituents as required by state and federal regulations. This report shows the results of our monitoring for the period of January 1 to December 31, 2019 and may include earlier monitoring data.*

**Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse San Pasqual Academy Water System a 1600 Pacific Highway, Room 310, San Diego, CA para asistirlo en español.**

Type of water source(s) in use: Water from two wells

Name & general location of source(s): Well #5 and #6 (Primary), Well #2 (Secondary supplemental - not in use)

Located in orange groves north of Highway 78 near the Academy

Drinking Water Source Assessment information: On file with the Department of Environmental Health

Time and place of regularly scheduled board meetings for public participation: Wednesday Agenda, 9:00am  
1600 Pacific Highway, Room 310, San Diego, California, Information at: [sdcounty.ca.gov/general/bos.html](http://sdcounty.ca.gov/general/bos.html)

For more information, contact: Jim Dohrer Phone: (858) 204-1648

## TERMS USED IN THIS REPORT

**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 (U.S. EPA).

**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.

**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.

**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 for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.

**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.

**Variances and Exemptions:** Permissions from the State Water Resources Control Board (State Board) to exceed an MCL or not comply with a treatment technique under certain conditions.

**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 our water system.

**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 has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

**ND:** not detectable at testing limit

**ppm:** parts per million or milligrams per liter (mg/L)

**ppb:** parts per billion or micrograms per liter (µg/L)

**ppt:** parts per trillion or nanograms per liter (ng/L)

**ppq:** parts per quadrillion or picogram per liter (pg/L)

**pCi/L:** picocuries per liter (a measure of radiation)

**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*, that 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*, that 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. EPA and the State Board prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration regulations and California law also establish limits for contaminants in bottled water that provide the same protection for public health.

**Tables 1, 2, 3, 4, and 5 list all of the drinking water contaminants that were detected during the most recent sampling for the constituent.** The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The State Board allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, are more than one year old. Any violation of an AL, MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

**TABLE 1 – SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA**

Microbiological Contaminants	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria (state Total Coliform Rule)	0	0	1 positive monthly sample <sup>(a)</sup>	0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i> (state Total Coliform Rule)	0	0	A routine sample and a repeat sample are total coliform positive, and one of these is also fecal coliform or <i>E. coli</i> positive	0	Human and animal fecal waste
<i>E. coli</i> (federal Revised Total Coliform Rule)	0	0	(b)	0	Human and animal fecal waste

(a) Two or more positive monthly samples is a violation of the MCL

(b) Routine and repeat samples are total coliform-positive, and either is *E. coli*-positive or system fails to take repeat samples following *E. coli*-positive routine sample or system fails to analyze total coliform-positive repeat sample for *E. coli*.

**TABLE 2 – SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER**

Lead and Copper (and reporting units)	Sample Date	No. of Samples Collected	90 <sup>th</sup> Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	No. of Schools Requesting Lead Sampling	Typical Source of Contaminant
Lead (ppb)	2019	7	3.9	0	15	0.2	0	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	2019	7	0.41	0	1.3	0.3	Not applicable	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

**TABLE 3 – SAMPLING RESULTS FOR SODIUM AND HARDNESS**

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	2017-2019	60.5	59-62	None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm)	2017-2019	300	300	None	None	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring

**TABLE 4 – DETECTION OF CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD**

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Arsenic (ppb)	2017	1.1	ND-2.1	10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Barium (ppm)	2017	0.12	0.14-0.93	1	2	Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits
Copper (ppm)	2019	0.0029	0.0029	AL=1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Nickel (ppb)	2017	7.1	2.2-12	100	12	Erosion of natural deposits; discharge from metal factories
Nitrate as N (ppm)	2019	2.8	ND-5.6	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Fluoride (ppm)	2017-2019	0.20	0.18-0.22	2.0	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Selenium (ppb)	2017	1.2	ND-2.4	50	30	Selenium is an essential nutrient. However, some people who drink water containing selenium in excess of the MCL over many years may experience hair or fingernail losses, numbness in fingers or toes, or circulation system problems.
Uranium (pCi/L)	2016-2019	0.9	ND-1.6	2.0	0.43	Erosion of natural deposits
Total Haloacetic acids (HAA5) (ppb)	2019	7.5	7.5	60	N/A	By-product of drinking water disinfection
Total Trihalomethanes (TTHM) (ppb)	2019	28	28	80	N/A	By-product of drinking water disinfection

**TABLE 5 – DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD**

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
Aluminum (ppb)	2017	109	17 -200	200	N/A	Erosion of natural deposits: residual from some surface water treatment processes
Total Dissolved Solids TDS (ppm)	2017-2019	555	530-580	1000	N/A	Runoff leaching from natural deposits
Chloride (ppm)	2017-2019	99	88-110	500	N/A	Runoff/leaching from natural deposits; seawater influence
Manganese* (ppb)	2017 -2019	71.5	50-93	50	N/A	Leaching from natural deposits
Iron* (ppb)	2018-2019	445	ND-890	300	N/A	leaching from natural deposits; industrial waste
Turbidity (NTU)	2017-2019	4.5	0.26-8.9	5	N/A	Soil runoff
Sulfate (ppm)	2017-2019	82.5	65-100	500	N/A	Runoff/leaching from natural deposits; seawater influence
Specific Conductance (uMHO/cm)	2017-2019	840	810-870	1600	N/A	Substances that form ions when in water; seawater influence

## Additional General Information on Drinking Water

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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the U.S. EPA'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. U.S. EPA/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).

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 San Pasqual Academy Water System 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 do so, you may wish to collect the flushed water and reuse it for another beneficial purpose, such as watering plants. 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 (1-800-426-4791) or at <http://www.epa.gov/lead>.

### Summary Information for Violation of a MCL, MRDL, AL, TT, or Monitoring and Reporting Requirement

VIOLATION OF A MCL, MRDL, AL, TT, OR MONITORING AND REPORTING REQUIREMENT				
Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language
Iron (ppb)	Low levels of iron may be present at San Pasqual. Increased levels of iron are not pleasing aesthetically but they do not pose a health risk	Continuous	Iron deposits are removed by an Arkal micro filtration system prior to delivery to potable water distribution system	There is no mandatory notification level for iron. There are no known health effects for iron. Secondary MCLs are set on the basis of aesthetics.
Manganese (ppb)	Low levels of manganese may be present in untreated well water at San Pasqual. Increased levels of manganese are not pleasing aesthetically but they do not pose a health risk	Continuous	Manganese deposits are removed by an Arkal micro filtration system prior to delivery to potable water distribution system	There is no mandatory notification level for manganese. There are no known health effects for manganese. Secondary MCLs are set on the basis of aesthetics.