

CALIFORNIA WATER SERVICE
REPORT ON WATER QUALITY RELATIVE TO PUBLIC HEALTH GOALS
IN THE CWS – PALOS VERDES WATER SYSTEM (CA1910104)
JUNE 27, 2022

BACKGROUND

Provisions of the California Health and Safety Code (Section 116470 [b]) specify that water systems serving more than 10,000 connections shall prepare a special report by July 1, 2022, if their water exceeds any Public Health Goals (PHGs) after each compliance period. PHGs are non-enforceable goals established by the Cal-EPA's Office of Environmental Health Hazard Assessment (OEHHA). The statute also requires that water suppliers use the Maximum Contaminant Level Goals (MCLGs) adopted by USEPA for constituents for which OEHHA has not adopted a PHG.

There are a few constituents that are routinely detected in water systems, at levels usually well below the drinking water standards, for which no PHG or MCLG has yet been adopted (e.g., Total Trihalomethanes). These constituents will be addressed in a future required report after a PHG has been adopted.

In accordance with the Health and Safety Code (reference 1), if a constituent was detected in the water system's supply during 2019, 2020, or 2021 at a level exceeding an applicable PHG or MCLG, it will be identified in this report. Additional information includes the numerical public health risk associated with the MCL, plus the PHG or MCLG; the category or type of risk to health that could be associated with each constituent; the best available treatment technology that could be used to reduce the constituent level; and an estimate of the cost to install that treatment if it is appropriate and feasible.

WHAT ARE PHGs?

PHGs are set by OEHHA, which is part of Cal-EPA, and are based solely on public health risk considerations. None of the practical risk-management factors that are considered in the rulemaking process by the USEPA or the California State Water Resources Control Board's Division of Drinking Water (DDW) in setting drinking water standards, otherwise known as Maximum Contaminant Levels (MCLs). These factors include analytical detection capability, treatment technology available, benefits, and costs.

PHGs and MCLGs are not mandatory and therefore compliance is not legally required by any public water system.

WATER QUALITY DATA CONSIDERED

All water quality data collected by our water system between 2019 and 2021 to determine compliance with drinking water standards from sources that supplied the water system and not treated to remove to given constituent are reported. This data is also presented in our annual consumer confidence reports, which are electronically available at: <https://www.calwater.com/water-quality-reports/>.

GUIDELINES FOLLOWED

The Association of California Water Agencies (ACWA) formed a workgroup that prepared guidelines for water utilities to use in preparing these required reports. ACWA guidelines are followed, with the exception reporting all detected compounds with a PHG, even if the constituent does not have an MCL. No guidance is available from DDW.

BEST AVAILABLE TREATMENT TECHNOLOGY AND COST ESTIMATES

Both the USEPA and DDW adopt best available technologies (BATs), which are the best-known methods of reducing contaminant levels to the MCL. Costs can be estimated for such technologies; however, since many PHGs and all MCLGs are set much lower than the MCL, it is not feasible to determine what treatment is needed to further reduce a constituent to an established goal. Many established goals are set below analytical detection limits, which means that the level has been lowered to zero. In some cases, installing treatment to further reduce very low levels of one constituent may have adverse effects on other aspects of water quality. Additionally, since there is little data readily available to estimate the cost of treatment to achieve some of the goal levels, use of this “BAT” may still not achieve the PHG or MCLG and the costs may be significantly higher to do so. Costs estimates for treatment were taken from Tables 1 – 3 in the *Suggested Guidelines for Preparation of Required Reports on Public Health Goals to satisfy requirements of California Health and Safety Code Section 116470(b)*, prepared by Association of California Water Agencies (ACWA), April 2022.

CONSTITUENTS DETECTED THAT EXCEED A PHG OR MCLG

No constituents were detected above the method DLR and PHG in sources that supplied the system during 2019, 2020 and 2021.

RECOMMENDATIONS FOR FURTHER ACTION

The drinking water quality of the Palos Verdes water system meets all State of California and USEPA drinking water standards set to protect public health. Cal Water will continue to assure the protection of public health by researching and examining emerging treating technologies on an ongoing basis while taking into account health protection benefits and cost.

REFERENCES:

- No.1 Excerpt from California Health & Safety Code: Section 116470 (b)
- No.2 Table of Regulated Constituents with MCLs, PHGs, or MCLGs
- No.3 Palos Verdes Water System's 2019, 2020, 2021 Consumer Confidence Report
- No.4 Health Risk Information for Public Health Goal Exceedance Reports prepared by the Office of Environmental Health Hazard Assessment, California Environmental Protection Agency, February 2022
- No. 5 Suggested Guidelines for Preparation of Required Reports on Public Health Goals to satisfy requirements of California Health and Safety Code Section 116470(b), prepared by Association of California Water Agencies (ACWA), April 2022