



Dublin San Ramon
Services District
Water, wastewater, recycled water

2025 Public Health Goal Report

**Board of Directors Meeting
September 16, 2025**

Danny Ward, Water/Wastewater Systems Superintendent
Kristy Fournier, Laboratory and Environmental Compliance Manager

Agenda

- Water Source Overview
- Dublin San Ramon Services District (DSRSD) Public Water System Overview
- Public Health Goal Report

WHERE DOES YOUR WATER COME FROM?



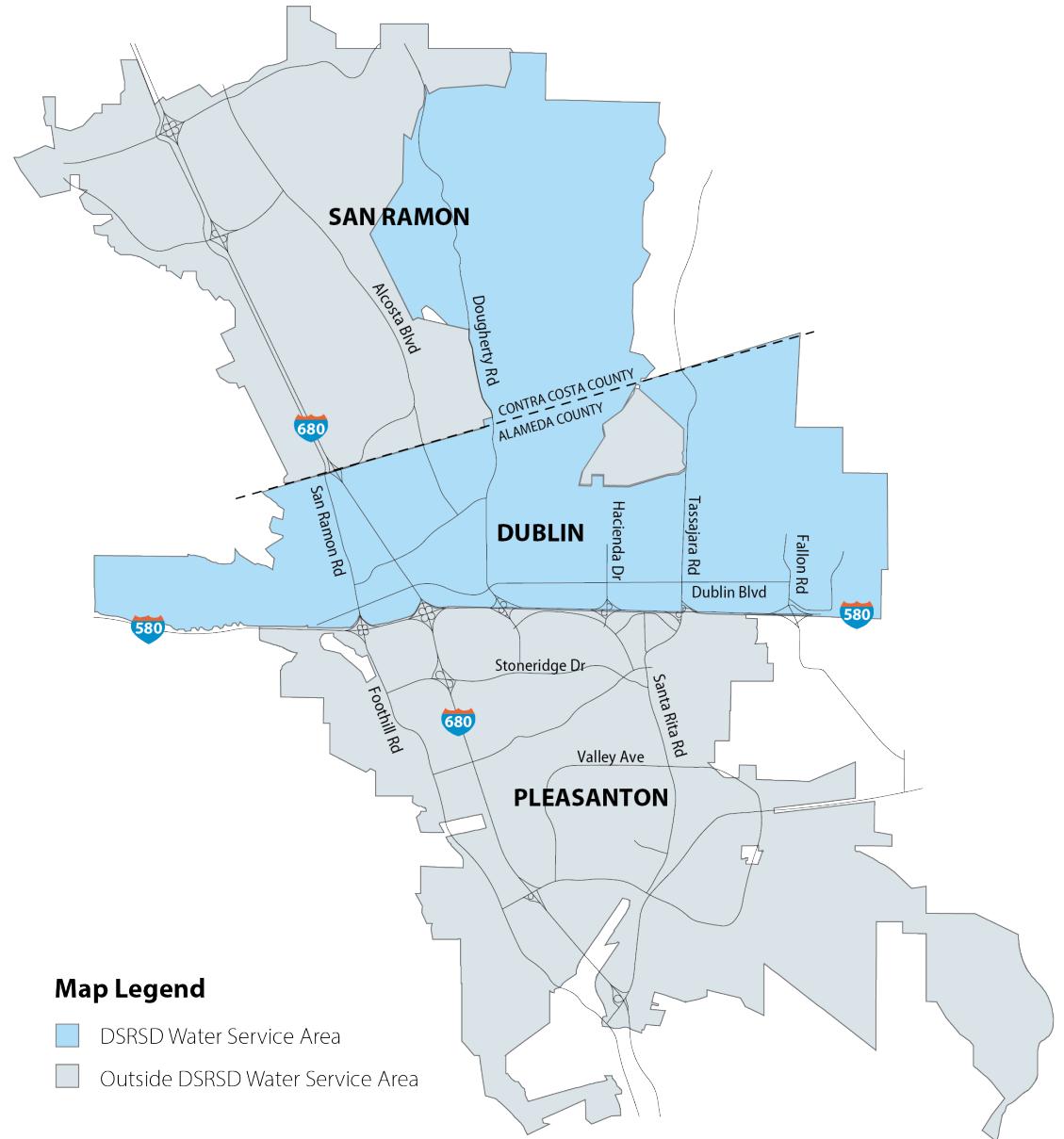
Zone 7 Annual Water Supply

- 60-80% treated surface water
- 20-40% groundwater
- Variables:
 - Seasonal precipitation
 - Location
 - Other conditions

Image source: Zone 7 Agency Annual Water Quality Report 2022, 2024

DSRSD Public Water System

- Population 101,295
- Meets or exceeds all drinking water State and Federal Standards





Public Health Goal Report

Triennial Report (2022-2024)

Purpose: Provide information about levels of contaminants found in drinking water supply that are above the Public Health Goal (PHG)

Public Health Goal

- Established by the California Office of Environmental Health Hazard Assessment (OEHHA)
- Non-enforceable, health-based goals
 - PHG is set at a level that would not cause significant adverse health effects in people who drink the water every day for 70 years
 - For carcinogenic chemicals, the PHG is set at a “one-in-a-million” risk level
 - Often theoretical (based on assumptions and mathematical estimations)
- Compliance with PHG levels is not required

Maximum Contaminant Levels (MCLs)

- The highest level of contaminants allowed
- MCLs are enforceable
- Set close to federal MCL Goals (MCLG)
 - MCLGs are health-based goals set by the federal government



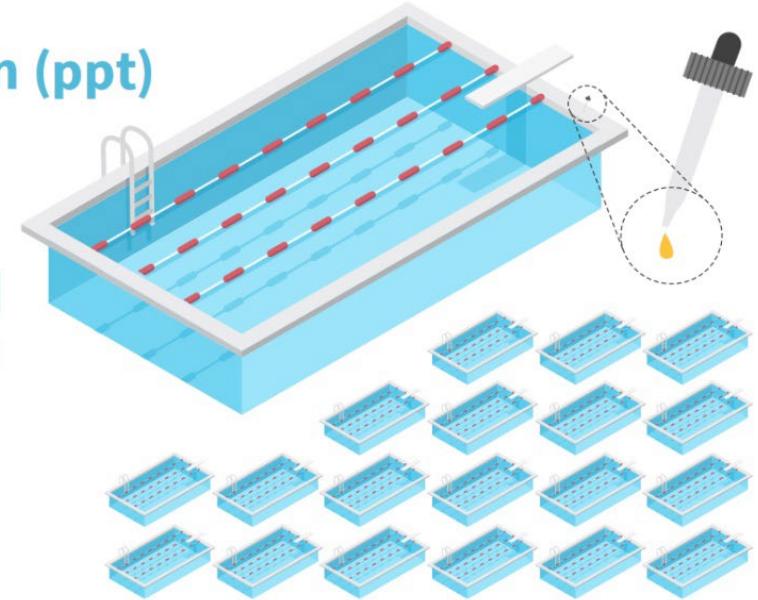
Unit of Measurement

- 1 mg/L (one part per million): 1 cup of water in a swimming pool
- 1 µg/L (one part per billion): 1 drop of water in a swimming pool
- 1ng/L (one part per trillion): 1 drop of water in 20 Olympic sized swimming pools

1 part per trillion (ppt)

IS EQUIVALENT TO A
SINGLE DROP OF
WATER IN

**20 olympic-sized
swimming pools**



Public Health Goal Report Requirements

- Numerical public health risk associated with the MCL and the PHG or MCLG, if possible, to quantify;
- The category or type of health risk that could be associated with the constituent;
- The best available technology (BAT) that could be used to reduce the level of the constituent in our drinking water; and
- An estimate of the cost to install that treatment if it is appropriate and feasible.



Public Health Goal: Bacteriological Indicators

Background	<i>E.Coli</i> Maximum Contaminant Level Goal= 0	Health Risk	Best Available Technology
<ul style="list-style-type: none">• District collects ~1,300 bacteriological samples a year• Total Coliform and <i>E.coli</i> with a few exceptions are not harmful to humans	<ul style="list-style-type: none">• Total Coliform- 2 detections in 2023• <i>E.coli</i>- 1 detection in 2023• No follow-up samples were total coliform or <i>E.coli</i> positive• No treatment technique triggered or MCL violations	<ul style="list-style-type: none">• Diarrhea• Urinary tract infections• Respiratory illness• Pneumonia	<ul style="list-style-type: none">• Maintaining adequate disinfection• Implementing effective cross-control program• Flushing water mains



Public Health Goal: Fluoride

Background	Public Health Goal=1.0 mg/L	Health Risk	Best Available Technology
<ul style="list-style-type: none">• Naturally occurring in almost all ground water• Voters approved fluoridation of drinking water in 1974• AB 733 passed in 1995	<ul style="list-style-type: none">• In 2023, four detections were above the Public Health Goal but below the MCL (2 mg/L)• 2022 - 2024 Fluoride results were within fluoride treatment control limits	<ul style="list-style-type: none">• Tooth mottling	<ul style="list-style-type: none">• Operate the fluoridation system within control limits outlined in the Fluoride Monitoring Plan• Maintain fluoride pumps



Public Health Goal: Hexavalent Chromium

Background	Public Health Goal=0.02 µg/L	Health Risk	Best Available Technology
<ul style="list-style-type: none">• Heavy metal• Can be naturally occurring• Can originate from industrial leaks	<ul style="list-style-type: none">• In 2024, Zone 7 Water Agency had detections of hexavalent chromium between 1.2-6.4 µg/L in groundwater wells• MCL =10 µg/L	<ul style="list-style-type: none">• Increased risk of cancer	<ul style="list-style-type: none">• Ion exchange, reduction-coagulation-filtration and reverse osmosis• Public Health Goal below the limit of detection

Public Health Goal: Lead

Background

- 2022 Lead and Copper Sampling from customer home plumbing samples

Public Health Goal=0.2 µg/L

- 2022 90th percentile for lead = 5.1 µg/L
- Action Level = 15 µg/L
- Water system in compliance with the Federal Lead and Copper Rule

Health Risk

- Exposure to variety of human toxicological effects

Best Available Technology

- Optimizing corrosion control in partnership with Zone 7 Water Agency



Public Health Goal: Per and Poly-fluoroalkyl Substances (PFAS)

Background	Public Health Goal	Health Risk	Best Available Technology
<ul style="list-style-type: none">• Human made class of compounds• In use since 1940s• Perfluorooctanoic acid (PFOA)• Perfluorooctane sulfonic acid (PFOS)	<ul style="list-style-type: none">• PFOA=1 ng/L• 2022-2024 PFOA results range from ND-4 ng/L• PFOS=0.07 ng/L• 2022-2024 PFOS results range from ND-32 ng/L	<ul style="list-style-type: none">• Increased risk of cancer	<ul style="list-style-type: none">• Zone 7 has installed ion exchange treatment systems at two facilities (in 2023 and 2025)• Public Health Goal is below the limit of detection

Public Health Goal: Uranium

Background	Public Health Goal=0.43 pCi/L	Health Risk	Best Available Technology
<ul style="list-style-type: none">• Naturally occurring in groundwater	<ul style="list-style-type: none">• Ground Water results range from ND-4 pCi/L, all under the MCL (20 pCi/L)• No detection in the surface water supply	<ul style="list-style-type: none">• Increased risk of cancer	<ul style="list-style-type: none">• Ion exchange• Reverse Osmosis• Lime softening• Coagulation / Filtration• PHG is below the limit of detection



Summary and Next Steps

- The PHG report identifies where the water quality of the drinking water exceeds the health-based non-enforceable goals.
- DSRSD drinking water meets all quality standards set by the State and Federal regulatory agencies to protect public health
- Staff will continue to provide information to our customers about the quality of their water
- Staff will continue to partner with regulatory agencies and Zone 7 Water Agency to align strategies, share resources and address shared challenges related to water quality.

Recommendation

- Staff recommends the Board accept the Public Health Goal Report





Dublin San Ramon
Services District
Water, wastewater, recycled water

Questions?



Danny Ward, Water/Wastewater Systems Superintendent
Kristy Fournier, Laboratory and Environmental Compliance Manager