



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

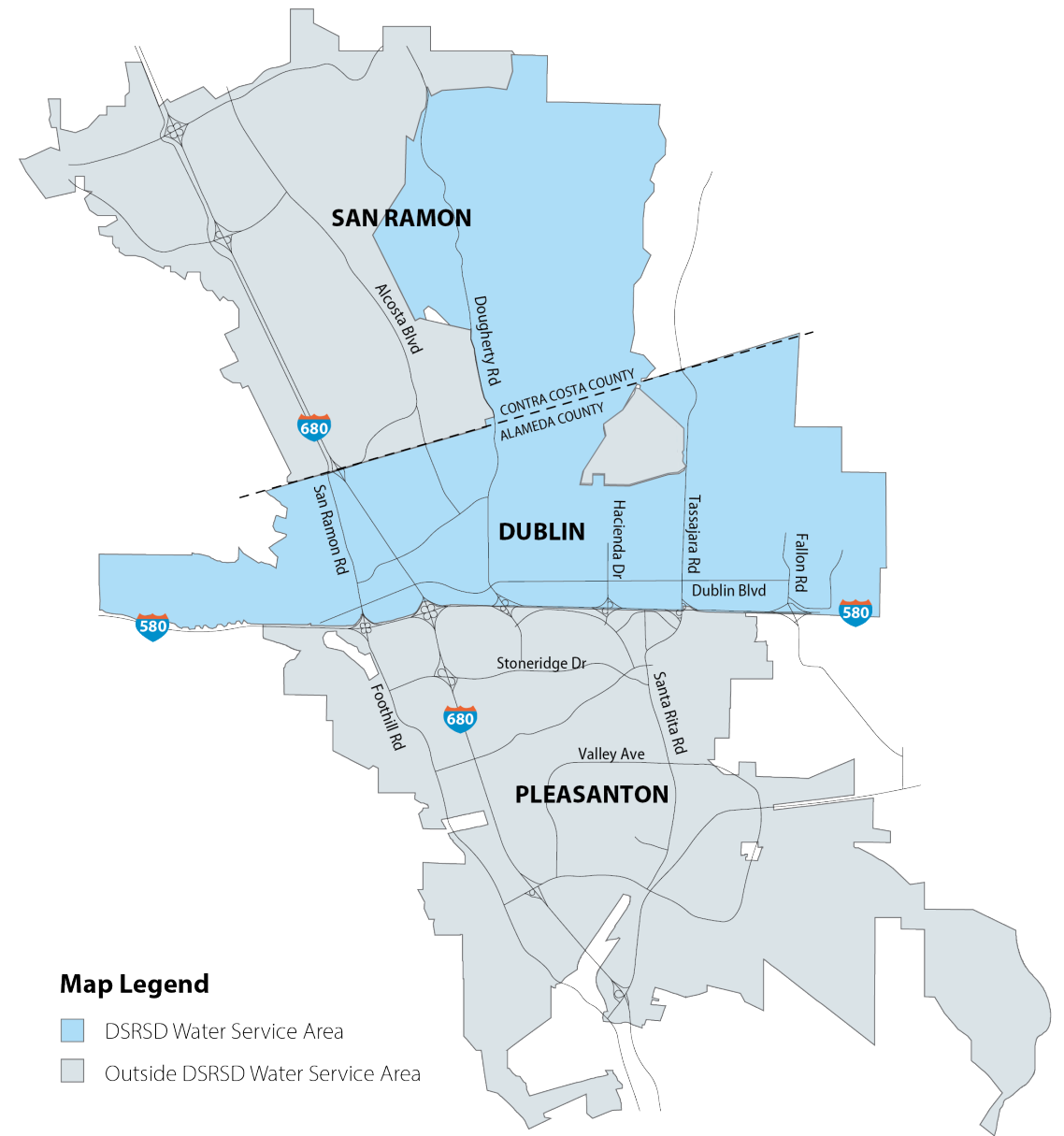
Image source: Zone 7 Agency Annual Water Quality Report 2022, 2024





# 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





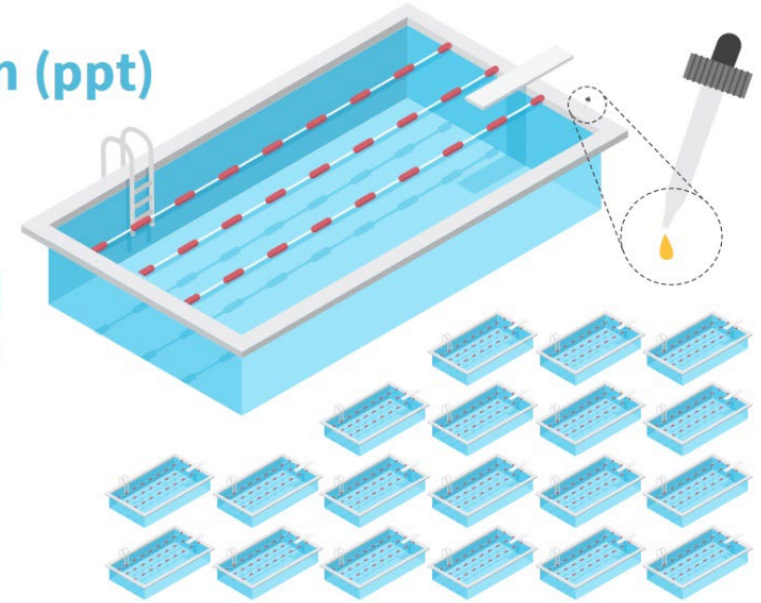
# Unit of Measurement

- 1 mg/L (one part per million): 1 cup of water in a swimming pool
- 1  $\mu\text{g/L}$  (one part per billion): 1 drop of water in a swimming pool
- 1 ng/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"><li>• District collects ~1,300 bacteriological samples a year</li><li>• Total Coliform and <i>E.coli</i> with a few exceptions are not harmful to humans</li></ul>	<ul style="list-style-type: none"><li>• Total Coliform- 2 detections in 2023</li><li>• <i>E.coli</i>- 1 detection in 2023</li><li>• No follow-up samples were total coliform or <i>E.coli</i> positive</li><li>• No treatment technique triggered or MCL violations</li></ul>	<ul style="list-style-type: none"><li>• Diarrhea</li><li>• Urinary tract infections</li><li>• Respiratory illness</li><li>• Pneumonia</li></ul>	<ul style="list-style-type: none"><li>• Maintaining adequate disinfection</li><li>• Implementing effective cross-control program</li><li>• Flushing water mains</li></ul>

# Public Health Goal: Fluoride

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



# Public Health Goal: Hexavalent Chromium

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

# Public Health Goal: Lead

Background	Public Health Goal=0.2 µg/L	Health Risk	Best Available Technology
<ul style="list-style-type: none"><li>• 2022 Lead and Copper Sampling from customer home plumbing samples</li></ul>	<ul style="list-style-type: none"><li>• 2022 90<sup>th</sup> percentile for lead = 5.1 µg/L</li><li>• Action Level = 15 µg/L</li><li>• Water system in compliance with the Federal Lead and Copper Rule</li></ul>	<ul style="list-style-type: none"><li>• Exposure to variety of human toxicological effects</li></ul>	<ul style="list-style-type: none"><li>• Optimizing corrosion control in partnership with Zone 7 Water Agency</li></ul>



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

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





# Public Health Goal: Uranium

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



# 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





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# Questions?

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