



# Public Health Goals Report 2022

May 12, 2022

Robert Welch, Utilities General Manager

Jason W. Dyogi, Water Quality Specialist



# Background

- Calderon-Sher California Safe Drinking Water Act of 1996.
- Report for water utilities serving more than 10,000 service connections.
- Prepare Public Health Goals Report every three years for City Council's approval.



# Report Highlights

- Information on constituents that were “detected” above the Public Health Goal (PHG) and Maximum Contaminant Level Goal (MCLG).
- Information on theoretical risk assessment.
- Evaluate Best Available Technologies (BAT) for each constituent.
- Evaluate cost to meet BATs.



# Standards vs Goals

	<b>Standard (Enforced)</b>	<b>Goal</b>
	<b>Maximum Contaminant Level (MCL)</b>	<b>Public Health Goal (PHG) Maximum Contaminant Level Goal (MCLG)</b>
<b>Agency</b>	State Water Resources Control Board- DDW & United States Environmental Protection Agency (USEPA)	Office of Environmental Health Hazard Assessment (OEHHA)
<b>Requirements</b>	Compliance Standard	For Information
<b>Target Criteria</b>	Set based on practical risk management factors	Set without consideration of practical risk management
<b>Reporting</b>	Monthly Reporting to DDW, Public Notification, Annual Water Quality Report (CCR)	Triannual Public Health Goals Report



# Beverly Hills Findings

- Constituents found in MWD water at or above Goals.
  - **Total Coliforms:** Bacteria Commonly in the Environment
  - **Gross Alpha Particle Activity:** Erosion of natural deposits
  - **Gross Beta Particle Activity:** Erosion of natural deposits
  - **Uranium:** Erosion of natural deposits
  - **Radium 228:** Erosion of natural deposits
  - **Lead:** Internal corrosion of residential water plumbing system
  - **Bromate:** By-product of ozonation (disinfectant)
  - **N-Nitrosodimethylamine (NDMA):** By-product of chlorination (disinfectant)



# City of Beverly Hills Results

Summary Table of Detected Constituents - Water Source from MWD

Contaminant	Units	Goal	Standard		Results - 2019, 2020, 2021	
		PHG or MCLG	State DLR	State MCL	Average Results	Range of Results
Total Coliform	%	MCLG=0	NA	5	ND	ND - 1
Gross Alpha Particle Activity	pCi/L	MCLG=1	3	15	ND	ND - 3
Gross Beta Particle Activity	pCi/L	MCLG=0	4	50	1.5	ND - 6
Uranium	pCi/L	0.43	1	20	0.7	ND - 3
Radium 228	pCi/L	0.019	1	5	ND	ND - 2
Bromate	ppb	0.1	1	10	3.1	ND - 9.8
Lead (90th Percentile Value)	ppm	0.2	5	15	NA	1.2
N-Nitrosodimethylamine (NDMA)	ppt	3	NA	NL=10	0.8	ND - 3.1



# Summary

Contaminant	Source	Best Available Treatment Technology	Cost to meet PHG
Gross Alpha, Gross Beta, Uranium, Radium 228, Bromate	MWD	Reverse Osmosis (RO)	\$375M to \$718M per Year
Lead	Internal Plumbing	N/A	N/A
Total Coliform	MWD	N/A	N/A
NDMA	MWD	Ozonation	\$0.67/1000 gallons



# Conclusion

- 8 constituents exceed State goals but met all enforceable state and federal health standards.
- Beverly Hills water meets all regulatory MCLs.
- Beverly Hills continues to monitor extensively.
- No further action required at this time.





# Recommendation

Staff recommends that the PWC recommend that City Council approve the City of Beverly Hills Public Health Goals Report pursuant to the requirements of the State Health and Safety Code.