

EBMUD 2022
CITY OF SAN LEANDRO
UPDATE

EAST BAY PLAIN GROUNDWATER SUSTAINABILITY PLAN

MAY 2022



100 YEARS SERVING THE EAST BAY

AGENDA

- Introduction
- Background on Sustainable Groundwater Management Act (SGMA)
- Groundwater Sustainability Plan (GSP) Overview
- Questions

INTRODUCTION

Existing Water Supplies

- EBMUD treats water through up to 6 treatment plants.
- Water quality meets or exceeds all standards.
- San Leandro is served a combination of Mokelumne River, Sacramento River, and Local Runoff.
- Future reliability of 3 major water supply sources is uncertain due to climate change, droughts, wildfires, and new regulations.

Three Sources of Drinking Water

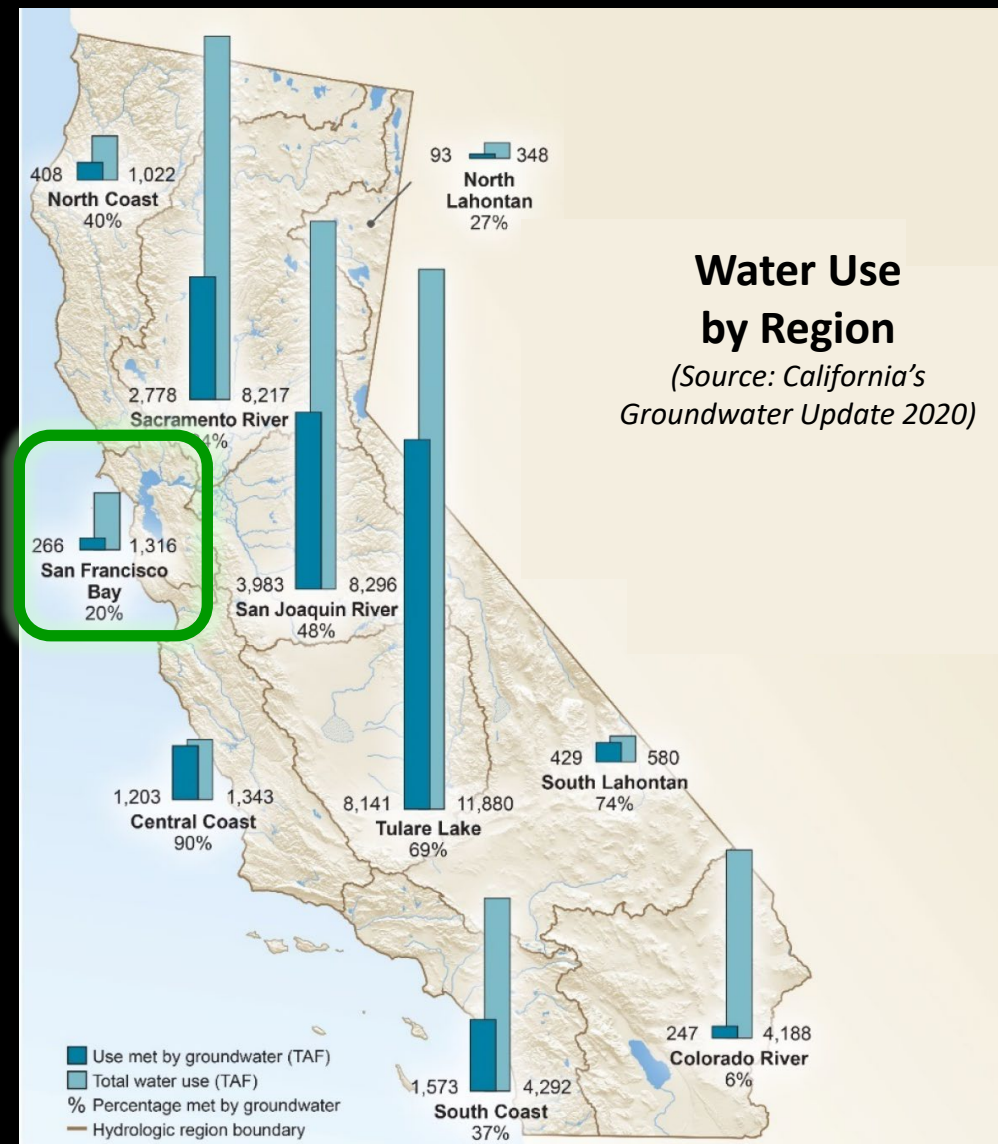
Mokelumne
River

Sacramento
River

Local
Runoff

INTRODUCTION

- Groundwater represents an opportunity to improve resiliency.
- EBMUD is evaluating groundwater options.



BACKGROUND ON SGMA

- SGMA enacted to protect groundwater resources within the State of California.
- EBMUD became a Groundwater Sustainability Agency (GSA) in 2016 and Hayward became a GSA in 2017.
- A GSP was submitted to DWR on January 26, 2022.
- District and Hayward are in GSP implementation.
- GSP is a living document and stakeholder engagement will be ongoing.

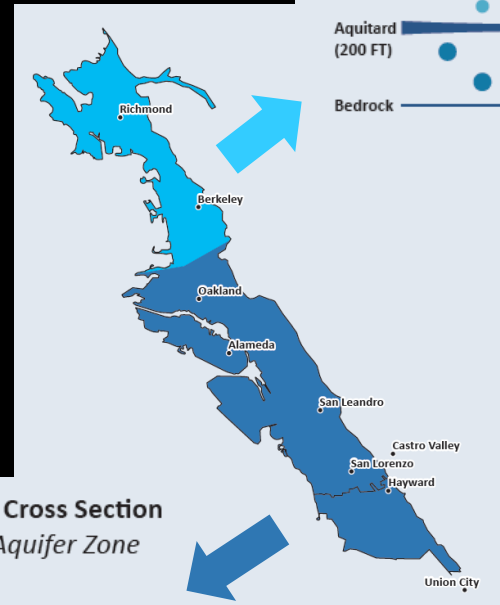
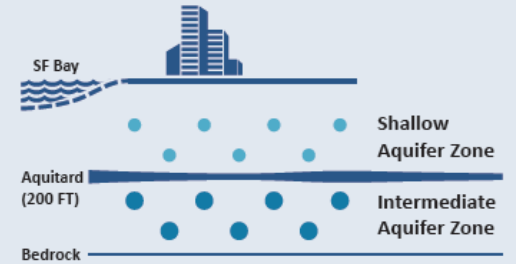


GSP OVERVIEW

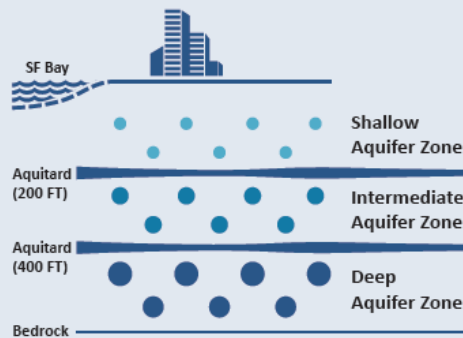
BASIN SETTING

- EBP Subbasin has 3 aquifers.
- EBP Subbasin groundwater levels are stable, and the basin is sustainable.
- Overall, EBP Subbasin groundwater quality is good and the analysis shows there are no contaminants impacting the intermediate and deep aquifer.
- Private domestic wells supplement irrigation and are not currently used as a source of drinking water.

Northern East Bay Plain Cross Section
Deep Aquifer Zone Not Present



Southern East Bay Plain Cross Section
General Extent of Deep Aquifer Zone



GSP OVERVIEW

SUSTAINABILITY GOALS & INDICATORS

- Four sustainability goals.
- SGMA requires that the GSAs consider 6 sustainability indicators in the GSPs.
- Interim criteria for each indicator were developed with stakeholder input and using best available science & data with the caveat that major data gaps need to be addressed.
- All criteria for each of the 6 sustainability indicators are currently being met.

Sustainability Goals for East Bay Plain Subbasin



Manage
& protect



Maintain
sustainability



Collect
data



Evaluate GW
beneficial uses

Sustainability Indicators



Groundwater Levels are stable



Groundwater Storage is stable



Seawater intrusion is not observed



Water Quality objectives are met



Land Subsidence is not observed



Surface Water is not being depleted

GSP OVERVIEW

POTENTIAL FUTURE PROJECTS PENDING DATA & SCIENCE

- Three future projects will be evaluated.
- EBMUD has not used Bayside to meet potable water demands due to new supplemental supplies.
- Bayside requires physical modifications and state permit approvals to implement.
- New data collected and analyzed as part of implementing the GSP will be used to guide future groundwater management.

- **Large Parcel Irrigation**

Serve large parcels (e.g. parks, cemeteries) with groundwater in lieu of using water from EBMUD's system



- **Chabot Recovery**

Supplement flows in San Leandro Creek with groundwater

- **Bayside**

Any new sources of drinking water added will meet or exceed all State and Federal requirements.

GSP OVERVIEW

MONITORING ACTIONS

- Monitoring actions will fill data gaps to drive future science-based solutions.
- Annual reports due every April 1st.
- GSP updated every 5 years.
- Public can access data at www.eastbayplainsdms.com.

  GROUNDWATER LEVEL MONITORING



 SURFACE WATER MONITORING



  GROUNDWATER QUALITY



 SUBSIDENCE MONITORING





QUESTIONS?

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