

EBMUD 2022  
CITY OF SAN LEANDRO  
UPDATE

# EAST BAY PLAIN GROUNDWATER SUSTAINABILITY PLAN

MAY 2022



100 YEARS SERVING THE EAST BAY

# AGENDA

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- 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

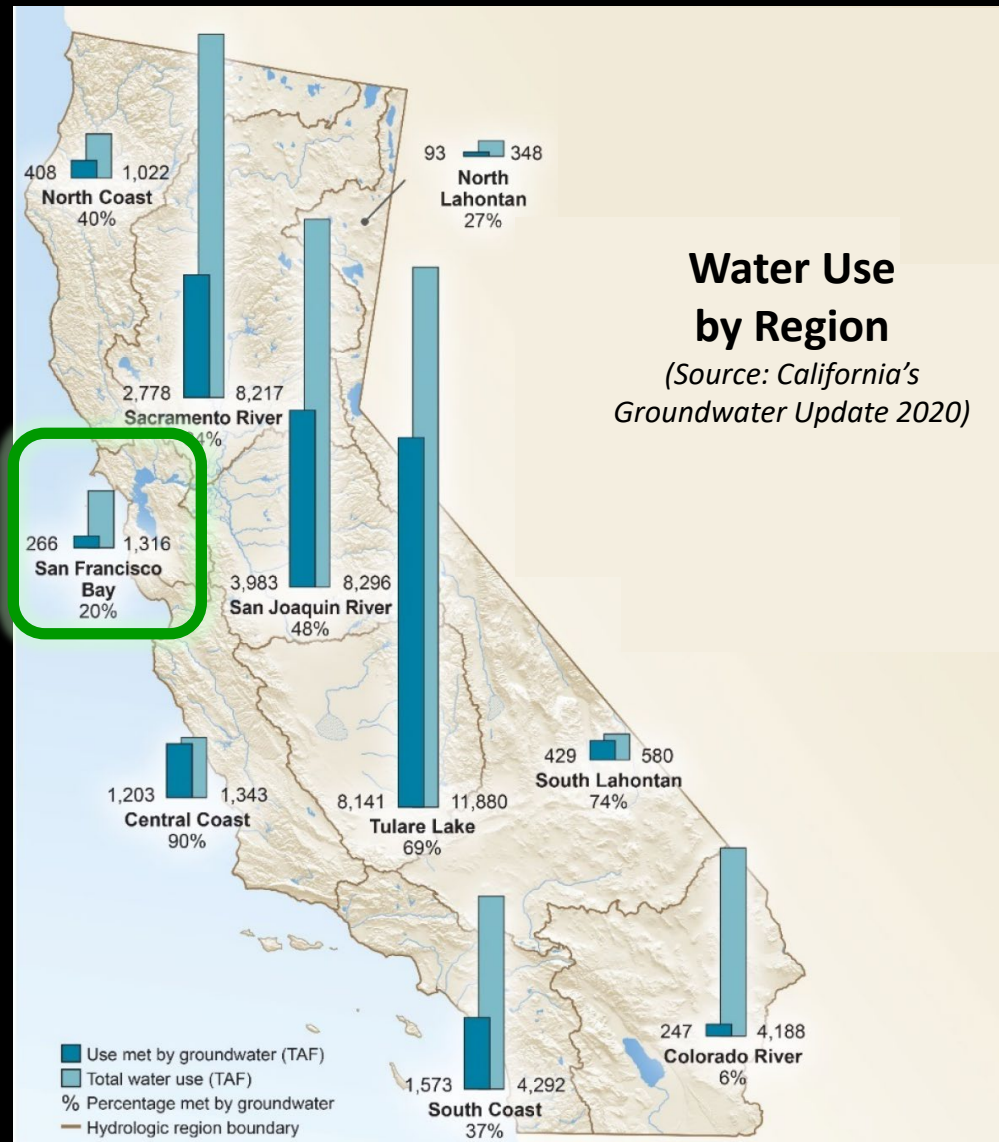
Mokelumne  
River

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.

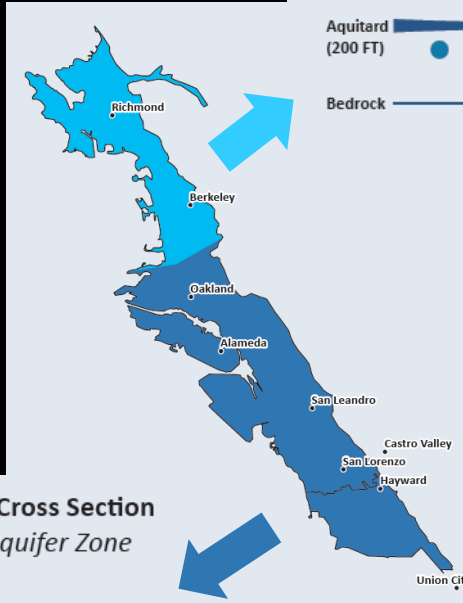
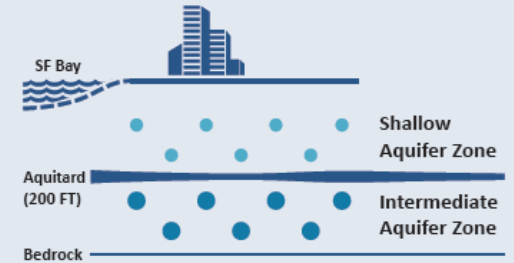


# GSP OVERVIEW

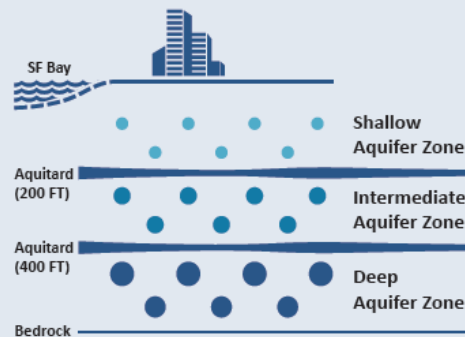
## BASIN SETTING

- 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 1<sup>st</sup>.
- GSP updated every 5 years.
- Public can access data at [www.eastbayplainsdms.com](http://www.eastbayplainsdms.com).

↓ ↻ GROUNDWATER LEVEL MONITORING



🚧 SURFACE WATER MONITORING



⚠️ 🧪 GROUNDWATER QUALITY



📶 SUBSIDENCE MONITORING





## CONTACT INFO

# QUESTIONS?

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