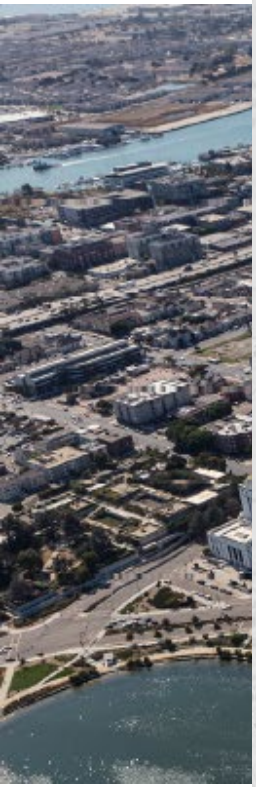


East Bay Plain Subbasin

Groundwater Sustainability Plan Implementation

Stakeholder Communications & Engagement Meeting

March 6, 2023

Agenda

- **Welcome and Introductions**
- **GSP Implementation Overview**
- **Stream Isotope Study of San Pablo and San Leandro Creeks**
- **Data Management System Demonstration**
- **Comments and Questions**

GSP: Groundwater Sustainability Plan

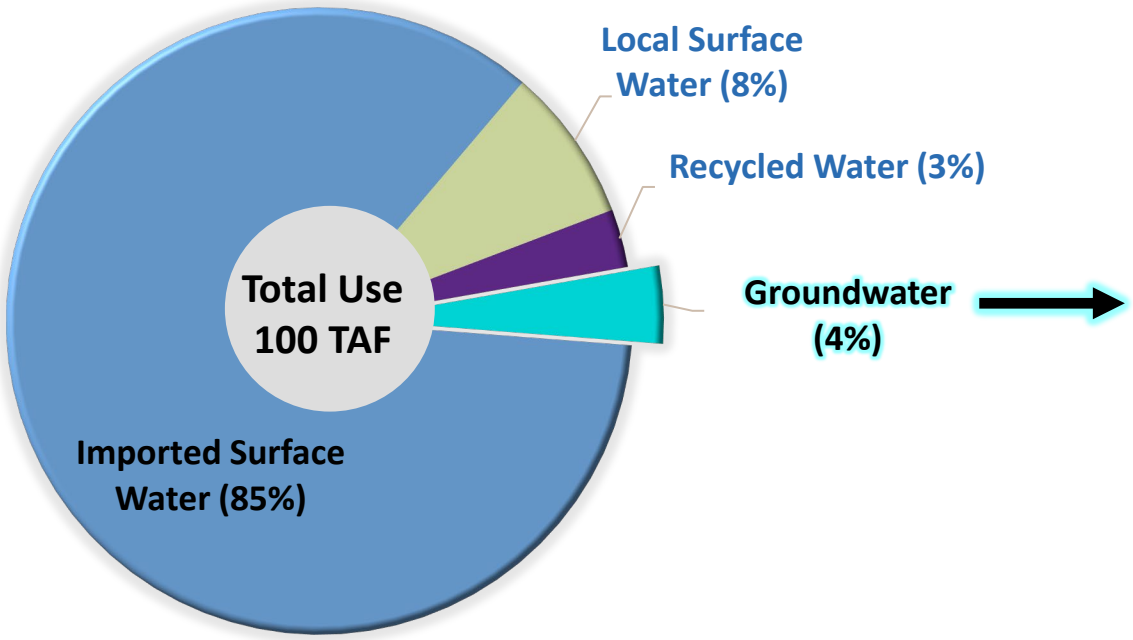
Background and Status

- East Bay Plain (EBP) Subbasin is managed by EBMUD GSA and the City of Hayward GSA
- EBP GSP was submitted to DWR in January 2022 and is under review
  - Living document updated every 5 years
- GSP implementation is ongoing
- SGMA implementation grant application submitted to DWR in December 2022

EBMUD: East Bay Municipal Utility District
GSA: Groundwater Sustainability Agency
GSP: Groundwater Sustainability Plan
SGMA: Sustainable Groundwater Management Act

Water Supply

2021 EBP Subbasin Water Supply



Primary Beneficial Uses and Users of Groundwater

- Industrial Uses
- Large Irrigators (e.g., parks, golf courses)
- Domestic Irrigators
- Environmental (GDEs)

GDEs: Groundwater Dependent Ecosystems
TAF: thousand acre-feet

Key Takeaways

1. EBP Subbasin groundwater levels are stable and the basin is sustainable because of limited groundwater use.
2. Domestic wells supplement irrigation and are not currently used as a source of drinking water.

Sustainability Goal & SMC

EBP Sustainability Goal: Must be achieved within 20 years (by 2042)

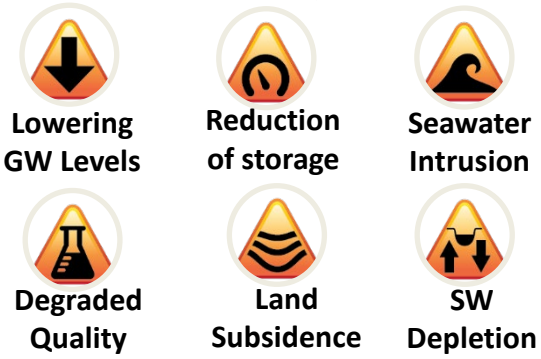
- ☑ Manage & protect the East Bay Plain Subbasin
- ☑ Collect data to support science-based decisions
- ☑ Evaluate new opportunities for sustainable groundwater beneficial uses
- ☑ Maintain sustainability through sustainable management criteria that avoid undesirable results (URs)

Sustainable Management Criteria (SMC)

Metrics defining when URs occur for the six sustainability indicators and when the sustainability goal is maintained/achieved

GW: Groundwater
SW: Surface water

Six Sustainability Indicators

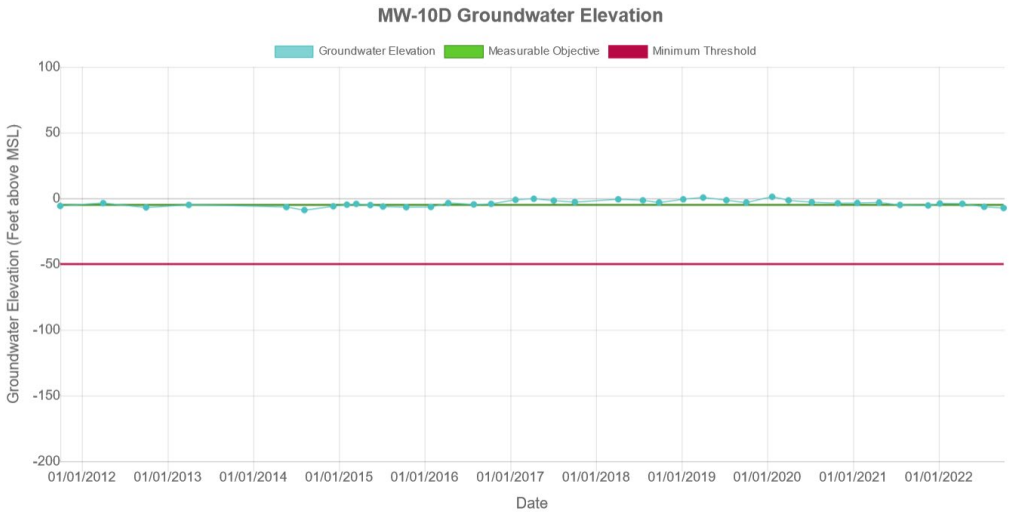


Key Takeaway

1. Interim SMC for the sustainability indicators were developed with stakeholder input and using best available science & data with the caveat that major data gaps need to be addressed.

Representative Monitoring Site (RMS) Wells

Monitoring data are available on the East Bay Plain Data Management System (DMS):
eastbayplaindms.com



Key Takeaways

1. RMS wells are used to evaluate the sustainability indicators.
2. Data gaps are being filled with data from the initial 15 RMS wells, with more wells planned in the future.

Ongoing Implementation Activities

Filling Data Gaps

Sustainability Indicators Addressed

- Groundwater levels and quality monitoring 
- Subsidence monitoring with extensometers 
- Stream isotope study 
- Updating groundwater pumping estimates 
- Expanding monitoring network 

Key Takeaway

1 Data gaps are being filled to drive future science-based solutions and address questions (e.g., groundwater dependent ecosystems).

Ongoing Implementation Activities

Basin Boundary Evaluation

- Isotope study to further delineate and characterize the hydrogeologic boundary between the EBP Subbasin and Niles Cone Subbasin

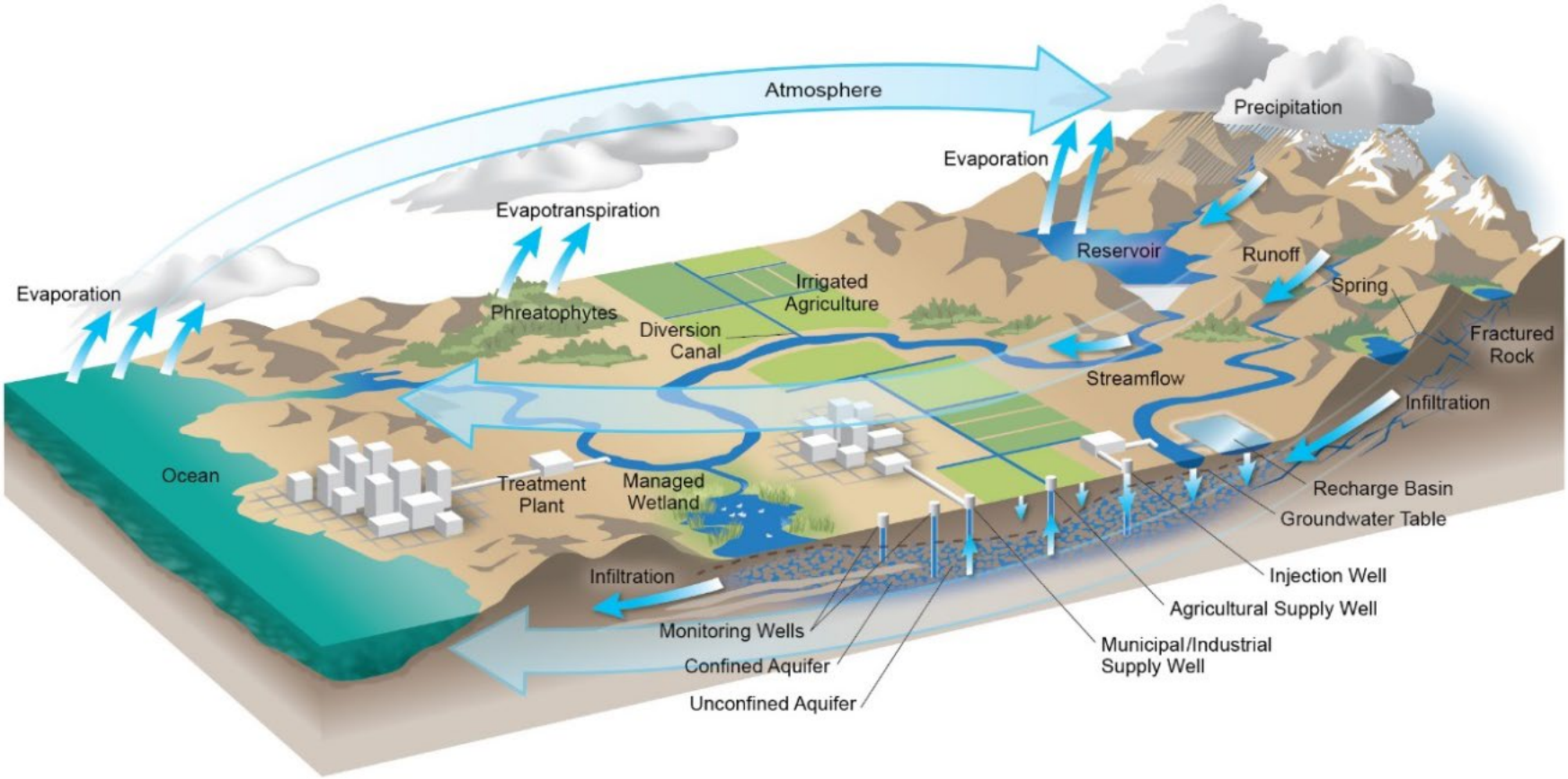
Annual Reporting

- Preparing Water Year 2022 Annual GSP Report

Governor's Executive Order

- Developing a process to determine if a proposed new (or modified) groundwater well is consistent with the EBP GSP

Comments or Questions?



The Hydrologic Cycle, DWR Water Budget BMP, 2016

East Bay Plain Subbasin
Data Management System (DMS)

Agenda

- DMS: the Why, How, and What?
- Live Demonstration

DMS – the Why, How, and What?

- **Meets GSP Emergency Relations 23 CCR§352.6 Data Management System**
  - Each Agency shall develop and maintain a data management system that is capable of storing and reporting information relevant to the development or implementation of the [GSP] and monitoring of the basin

- **EBP DMS Process**
  - July 2021: GSAs selected Woodard & Curran
  - July-Nov: Model Development
  - Dec.-Feb: Beta Testing & GSA Steering Committee Briefing
  - Feb. 2022: Public launch (https://eastbayplaindms.com/)

DMS – the Why, How, and What? (continued)

- **A flexible, One-Stop Shop for Sharing and Managing your Groundwater Data**
  - Provides an easy-to-use web-based, GIS-enabled interface to view and manage multiple datasets
  - Allows for transparent and efficient sharing of sustainability indicators and associated data
  - Supports automated annual reporting
  - Allows the GSAs to monitor and track undesirable results

Live Demonstration

East Bay Plain DMS Weblink:

https://eastbayplaindms.com/