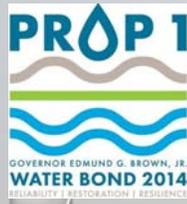


EAST BAY PLAIN SUBBASIN

GROUNDWATER SUSTAINABILITY PLAN DEVELOPMENT

STAKEHOLDER COMMUNICATION AND ENGAGEMENT MEETING

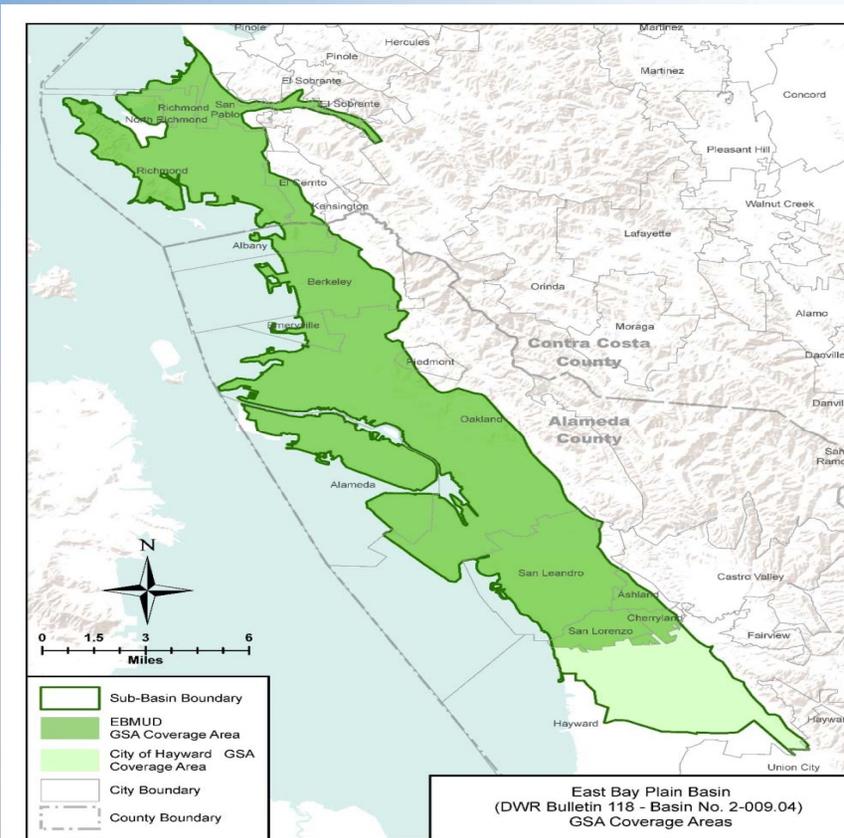
March 14, 2019



AGENDA

- WELCOME AND INTRODUCTION
- OVERVIEW OF SGMA COMPLIANCE PROCESS
- SGMA COMPLIANCE UPDATES
 - COMPLETED MILESTONES
 - REVIEW OF COLLABORATIVE DECISION MAKING PROCESS
 - INTERBASIN WORKING GROUP UPDATE
 - TECHNICAL ADVISORY COMMITTEE FORMATION
- GSP DEVELOPMENT ACTIVITIES BY LSCE
- ROUNDTABLE DISCUSSION
- NEXT STEPS

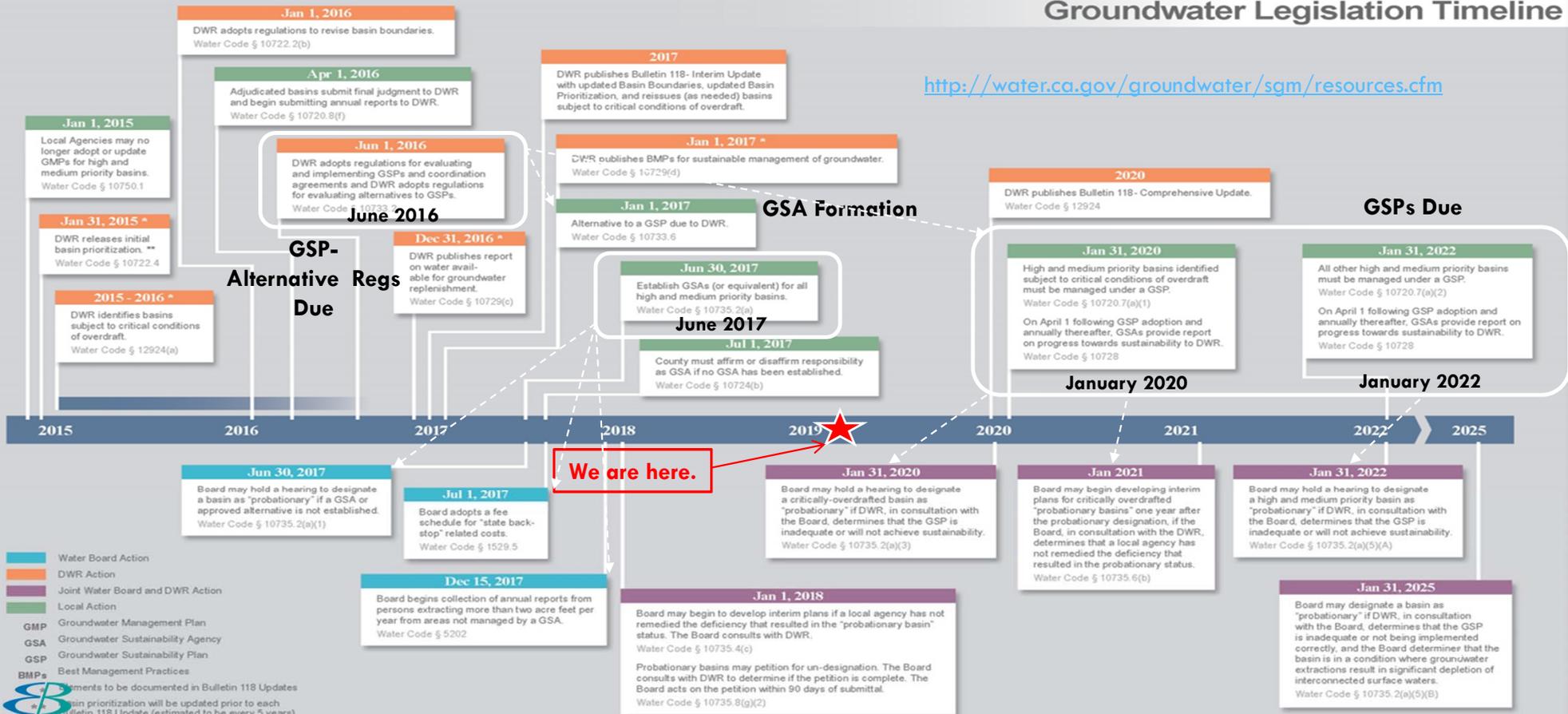
EAST BAY PLAIN SUBBASIN GSA COVERAGE



SGMA MILESTONES (2015-2025)

Groundwater Legislation Timeline

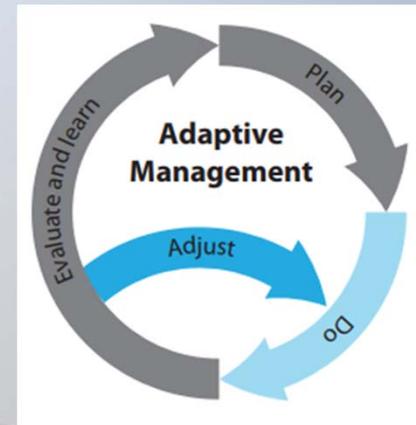
<http://water.ca.gov/groundwater/sgm/resources.cfm>



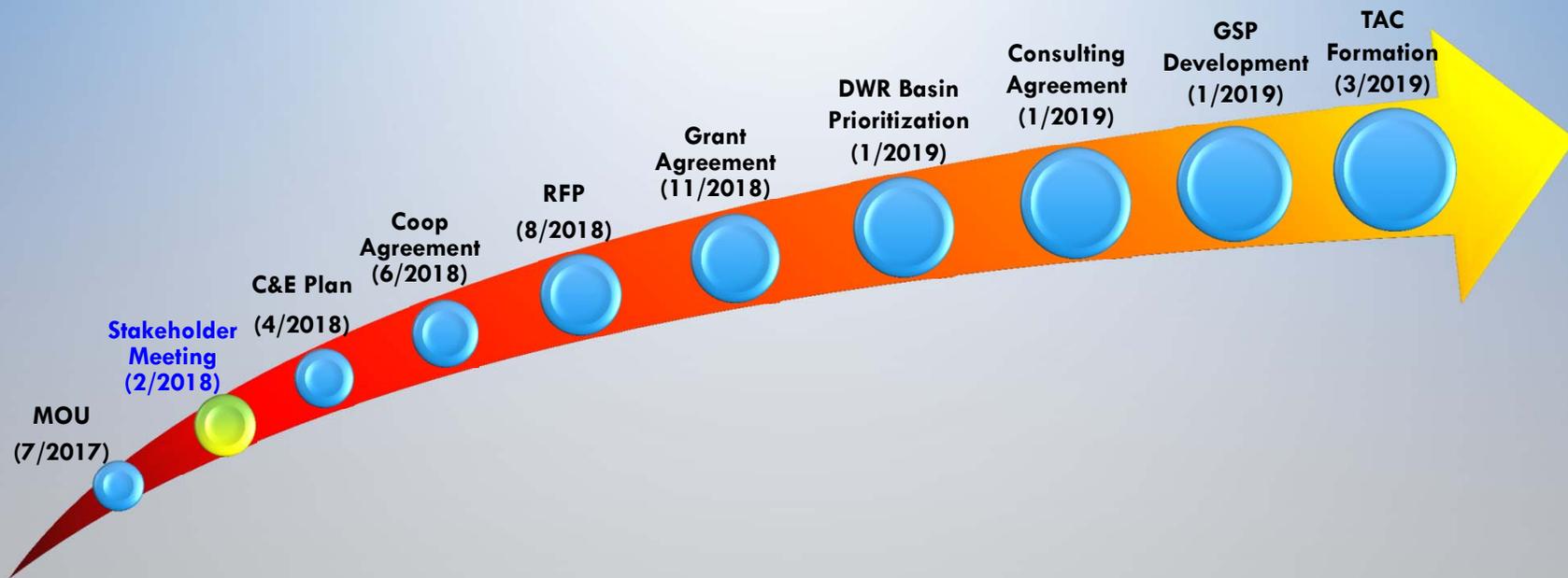
SGMA STEPS



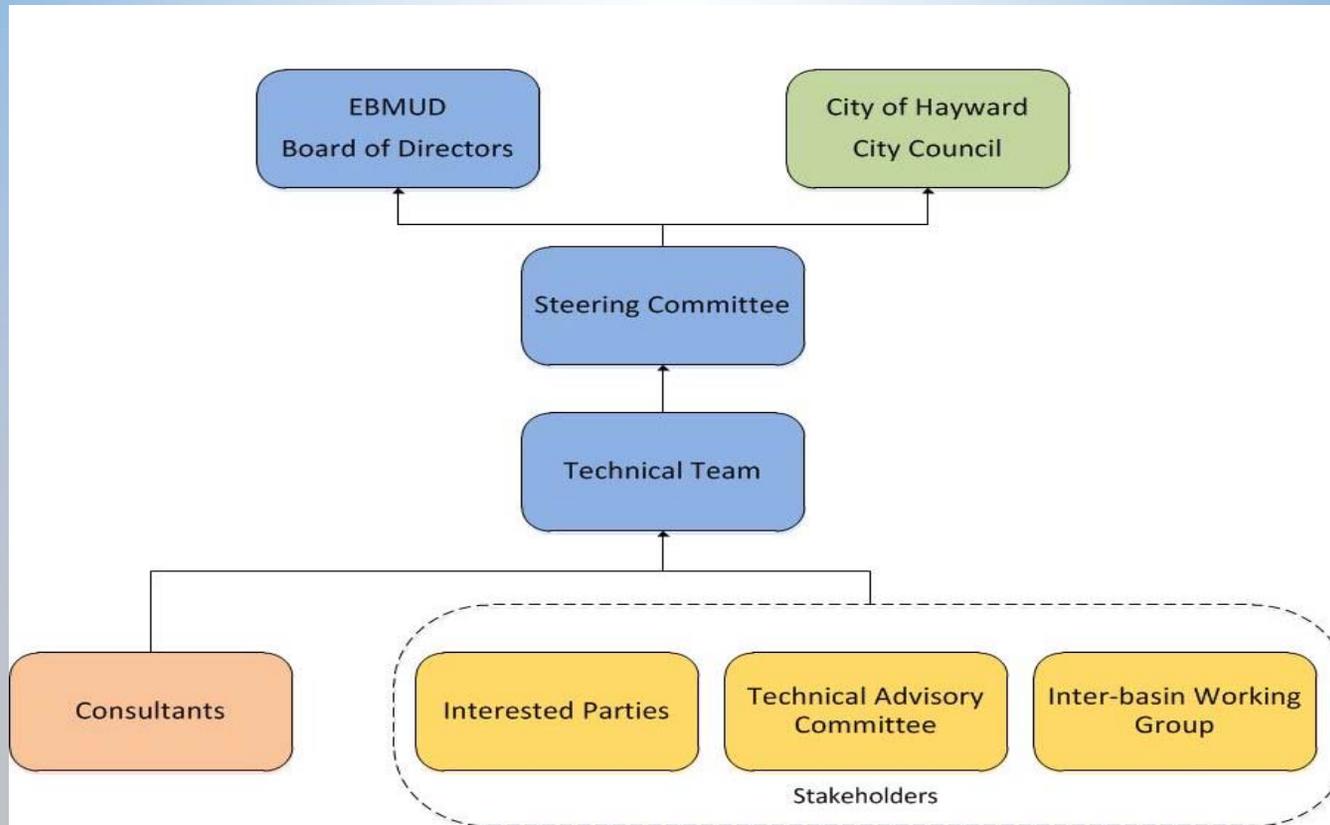
*As of Dec. 2018



COMPLETED MILESTONES

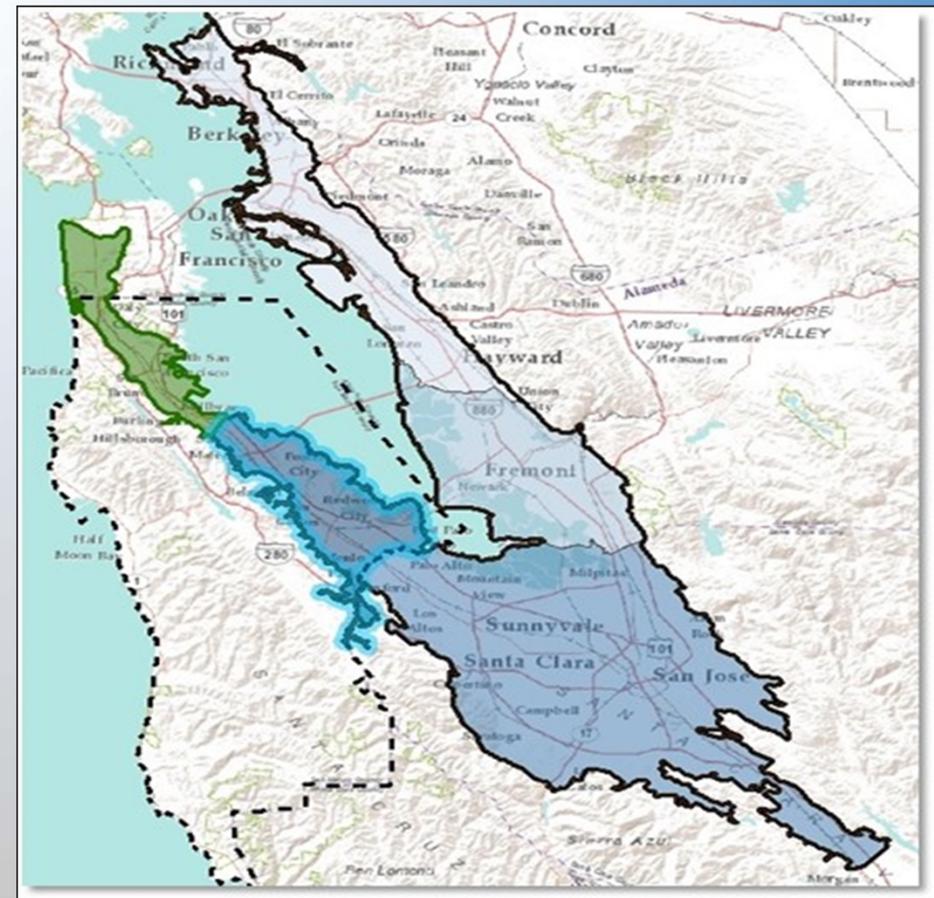


REVIEW OF COLLABORATIVE DECISION MAKING PROCESS



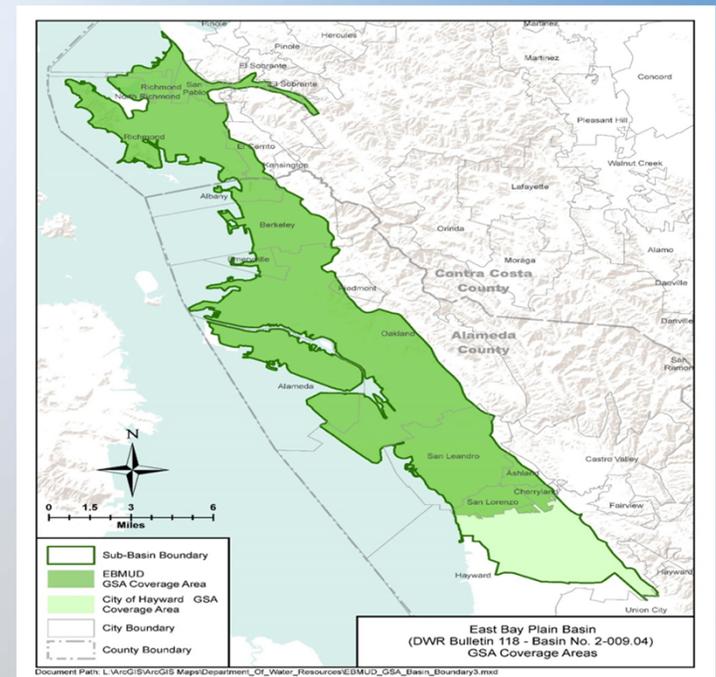
INTERBASIN WORKING GROUP (IWG)

- FIRST MEETING TO BE HELD THIS SUMMER
- ANTICIPATED IWG MEMBERS ARE:
 - Alameda County Water District (Niles Cone Subbasin)
 - San Mateo County (San Mateo Plain Subbasin)
 - Santa Clara Valley Water District (Santa Clara basin)
 - West of the bay basins (Marina, Lobos, Downtown, Islais Valley, South San Francisco, Visitacion Valley, Westside basins)
 - North of the bay basins (TBD)



TECHNICAL ADVISORY COMMITTEE (TAC) FORMATION

- STARTED THE TAC FORMATION PROCESS IN 2/2018
- THE FOLLOWING ARE THE CURRENT TAC MEMBERS:
 - Mitchell Buttress (City Of Berkeley)
 - Alyx Karpowicz (SFRWQCB)
 - Jan Lee (or) a Designee (City Of Hayward)
 - Ken Minn (EBMUD)
 - Karineh Samkian (City of San Pablo)
 - Ryan Smith (or) a Designee (City Of Richmond)
 - Erin Smith (City Of Alameda)
 - Michelle Sneed (USGS)
 - Jamar Stamps (Contra Costa County Water Agency)
 - James Yoo (Alameda County Public Works Agency), and
 - Representatives from Environmental Groups such as The Nature Conservancy, Sierra Club, etc. (TBD)



GSP DEVELOPMENT ACTIVITIES

by

LUHDORFF & SCALMANINI CONSULTING ENGINEERS (LSCE)

OUTLINE

- INTRODUCTIONS
- TEAM
- TEAM STRENGTHS
- SCOPE AND PLAN
- SUMMARY

REPRESENTATIVE TEAM MEMBERS



Pete Leffler

Luhdorff & Scalmanini
Consulting Engineers



Vicki Kretsinger Grabert

Luhdorff & Scalmanini
Consulting Engineers

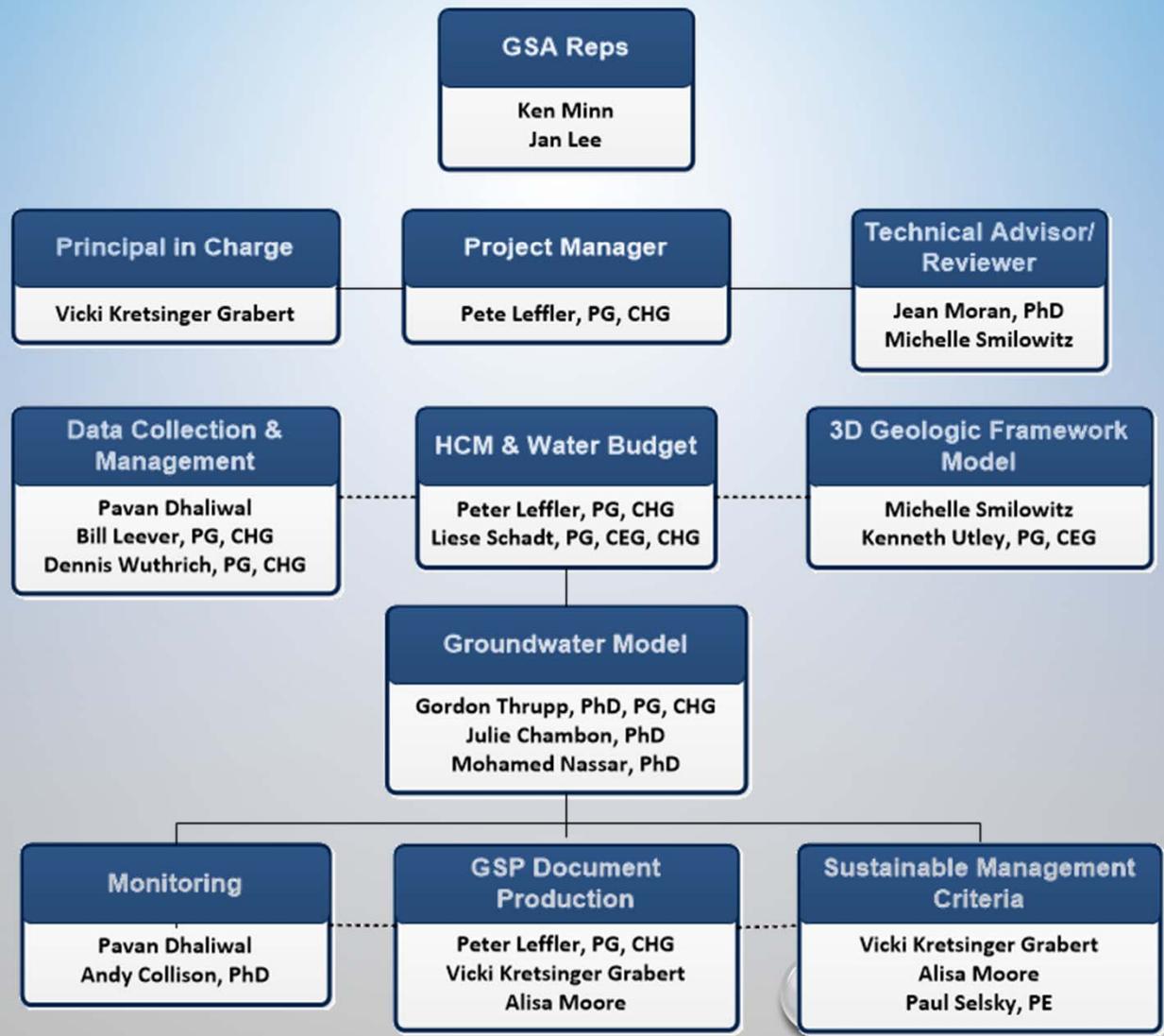


Alisa Moore

ESA

GSP CONSULTANT TEAM

LSCE	<ul style="list-style-type: none">• Lead/Prime; HCM/Water Budget/GW Conditions; Sustainable Management Criteria
Geosyntec	<ul style="list-style-type: none">• Groundwater Model
Brown & Caldwell	<ul style="list-style-type: none">• Non-GW components of water portfolio, SNMP, GW quality/contaminant sites; climate change
ESA	<ul style="list-style-type: none">• GDE ecosystem impacts, CEQA, presentation and document production/editing
Dr. Jean Moran	<ul style="list-style-type: none">• Groundwater quality, isotopes, peer review
Farallon Geographics	<ul style="list-style-type: none">• Data Management System
Kearns & West	<ul style="list-style-type: none">• Facilitation and public engagement (support to EBMUD/Hayward as needed)



LSCE TEAM STRENGTHS



- Very knowledgeable of basin from previous work
- Comprehensive understanding of GSP regulations and DWR expectations
- Local offices facilitate ongoing collaboration
- HCM and modeling tools tailored to local needs for GSP and beyond

THE MISSION

Develop a Groundwater Sustainability Plan (GSP) that meets DWR approval

Fundamentally Sound Technical Basis

Incorporate Northern Portion of EBP Subbasin

Characterize Subbasin Boundary with Niles Cone

Salt and Nitrate Management Plan

Develop Robust/Scientifically Sound Tools for GSP and Future Use

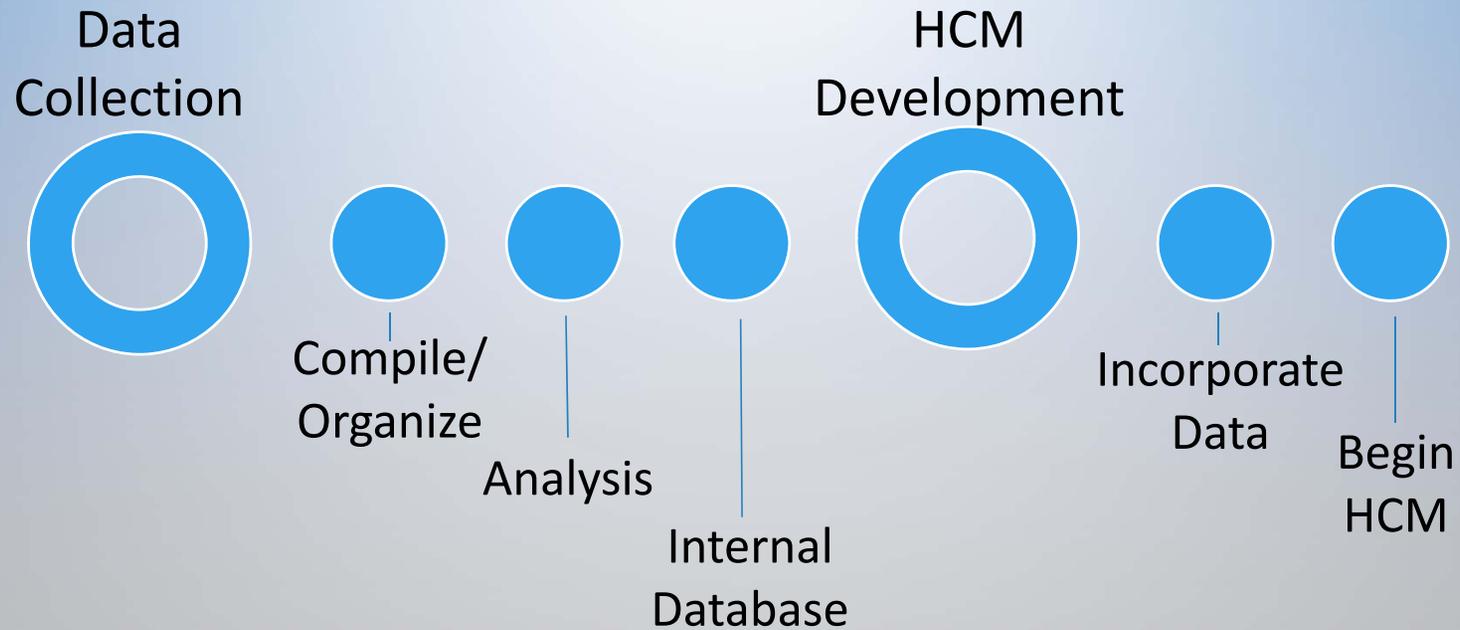
3-D Geologic Model

Numerical Groundwater Flow Model

Supplementary Tools for Evaluation of Sustainability Indicators

Groundwater Model/Salt and Nitrate Balance

SCOPE AND PLAN (NEXT 6 MONTHS)



DATA COMPILATION

Team: LSCE, GS, BC, ESA, Moran

Data
Collection

Compile/
Organize

Analysis

Deliverable: Technical Memorandum

DATA COLLECTION

Storm Water

Subsidence

Water Levels

Recycled Water

Geology/Soils

Water
Quality/Isotopes

Surface Water

Aquifer Properties

Land Use

Precipitation/ET

Seismic

Pumping

DATA ORGANIZATION/ANALYSIS

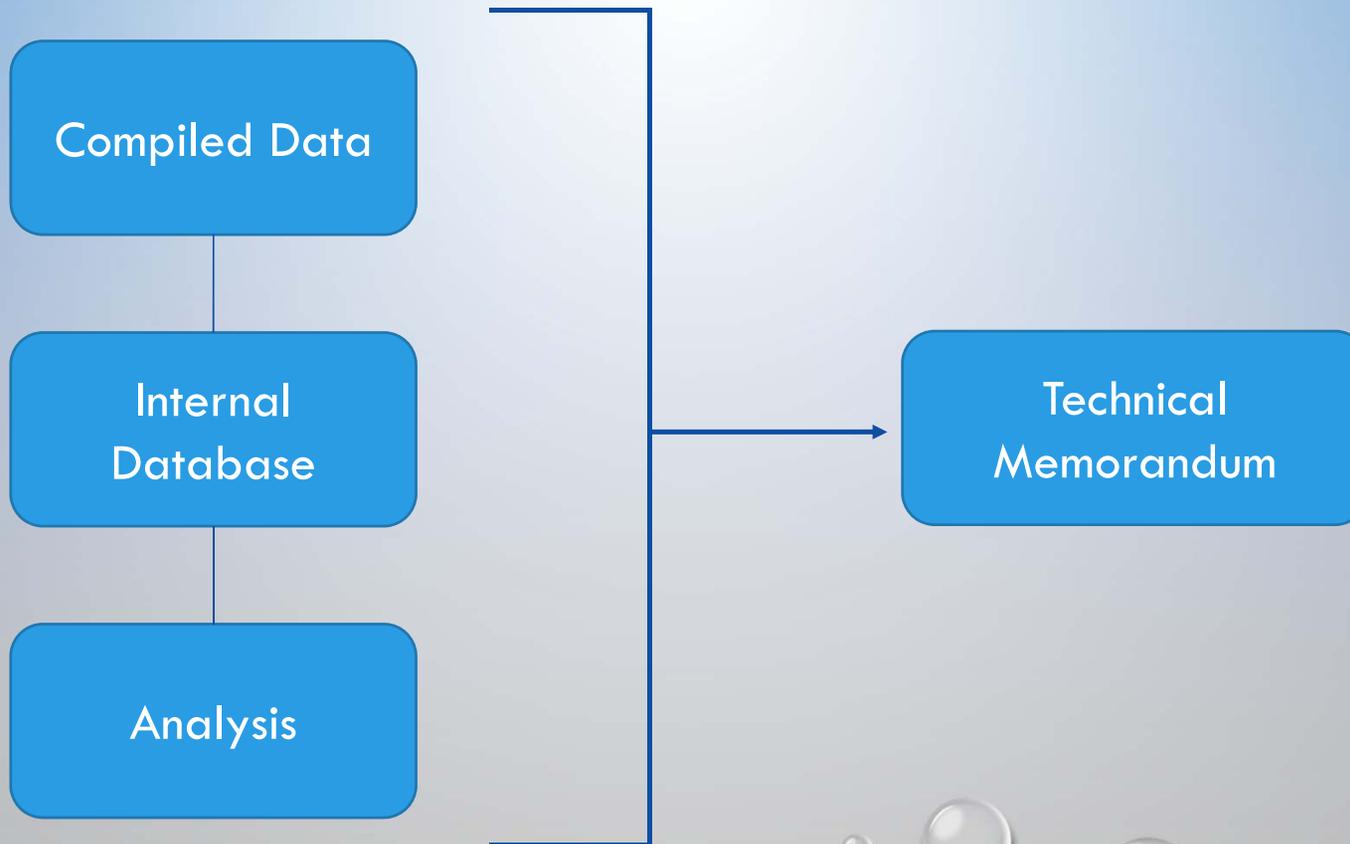
Review Previous
Studies

Evaluate Existing
Data and Map
Distribution

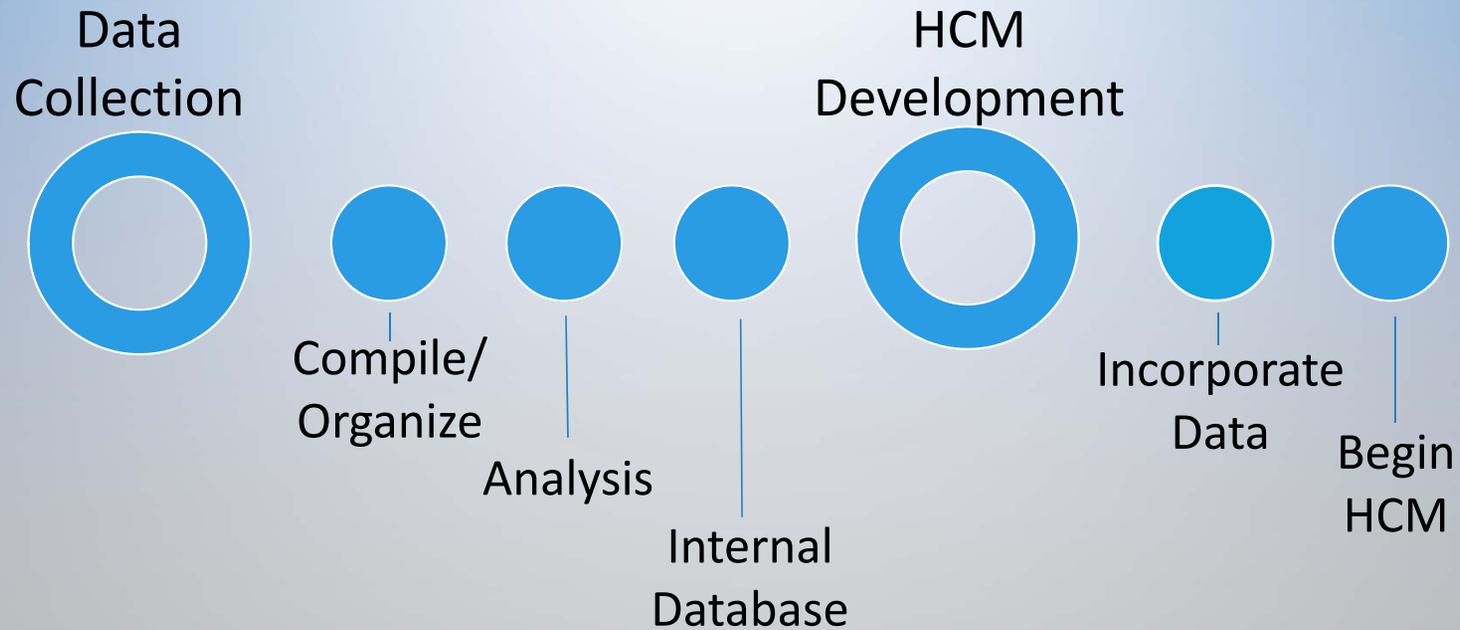
Assess Data
Availability in
Northern Portion
of Basin

Identify and
Recommend
How to Fill Data
Gaps

TECHNICAL MEMORANDUM



SCOPE AND PLAN (NEXT 6 MONTHS)



HCM DEVELOPMENT

Team: LSCE, GS, BC, ESA, Moran

Geologic
Conditions

GW
Conditions

Water Budget

Management
Areas

Deliverable: Hydrogeologic
Conceptual Model

HCM DEVELOPMENT

Geology

Subsurface
In/outflows

Water
Levels

Basin
Boundaries

Streamflow

Water
Quality

Root Zone
Model

Recharge

Water
Budget

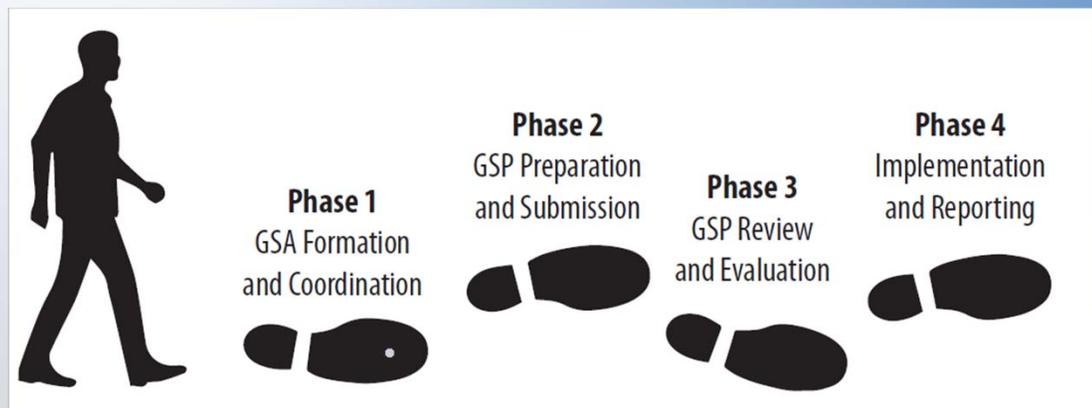
SUMMARY/REQUESTS

- SUMMARY (NEAR TERM)
 - Compile/incorporate all available reports/data
 - Evaluate data gaps
 - Develop HCM
 - Input to Groundwater Model
- REQUESTS
 - Want to incorporate any reports/data stakeholders may have up front
 - Coordinate questions/input through Ken

ROUND TABLE DISCUSSION

NEXT STEPS

- REACH OUT TO STAKEHOLDERS FOR AVAILABLE DATA
- COMPLETE DATA SYNTHESSES AND ANALYSIS
- SUBMIT PROP 1 GRANT PROGRESS REPORTS
- CONTINUE OUTREACH TO STAKEHOLDERS
- CONTACT LOCAL STAKEHOLDERS AND PUMPERS FOR GROUNDWATER USE INFORMATION
- CONVENE 1ST TAC MEETING IN SPRING
- CONVENE 1ST IWG MEETING IN SUMMER
- PLAN FOR A STAKEHOLDER MEETING IN FALL
- KEEP ALL STAKEHOLDERS INFORMED VIA WEB PAGES AND EMAILS



FOR MORE INFORMATION...

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Jan Lee

510-583-4701

jan.lee@Hayward-ca.gov

Visit: www.ebmud.com/sgma or www.Hayward-ca.gov/sgma