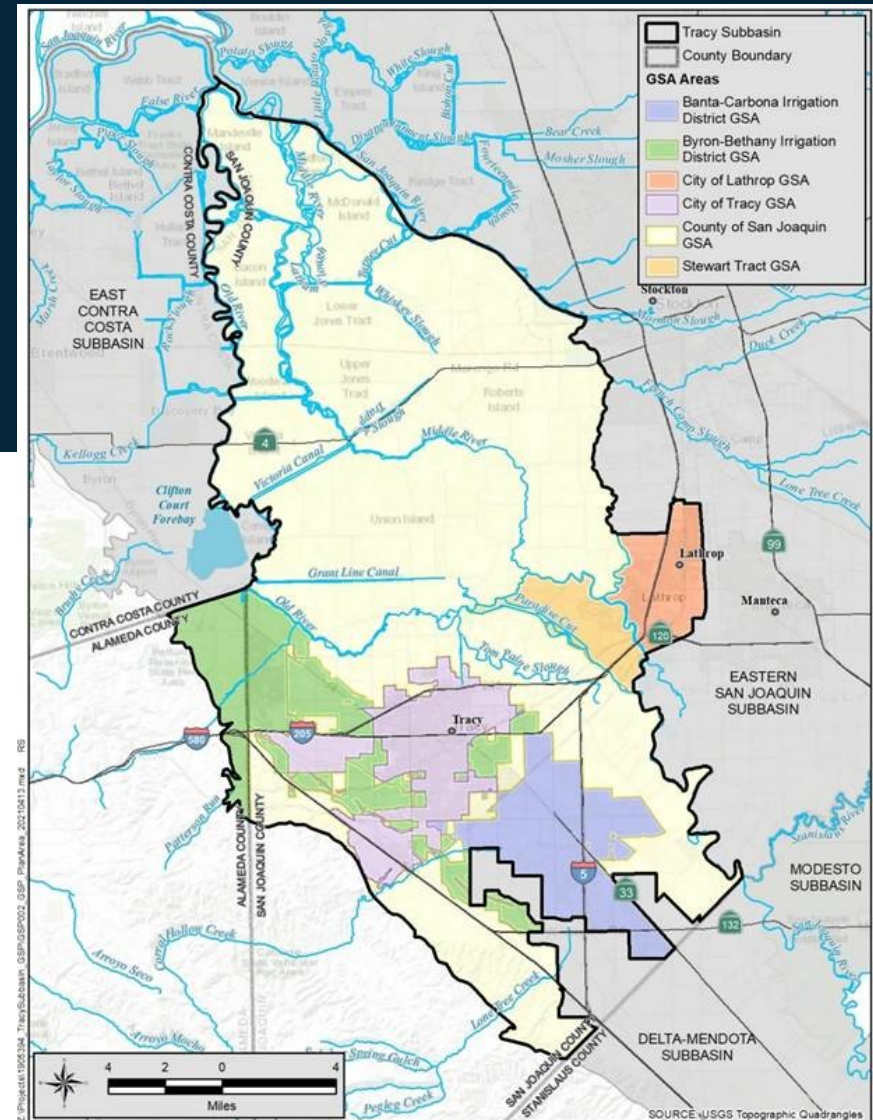


Tracy Subbasin Public Workshop

Overview of Draft Groundwater Sustainability Plan

August 10, 2021



Meeting Format and Webinar Instructions

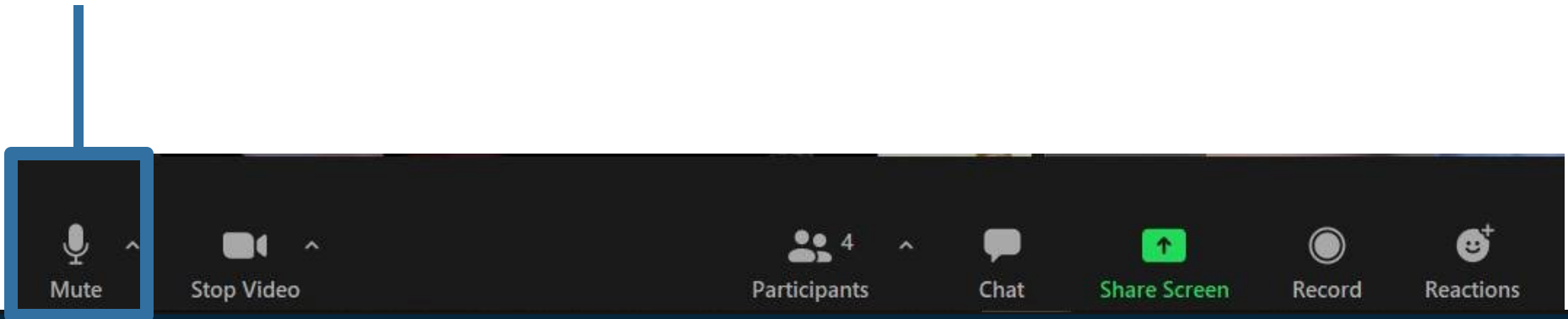
Audio Options

Mute and unmute yourself.

Adjust your audio options (microphone and speaker).

Switch to phone audio.

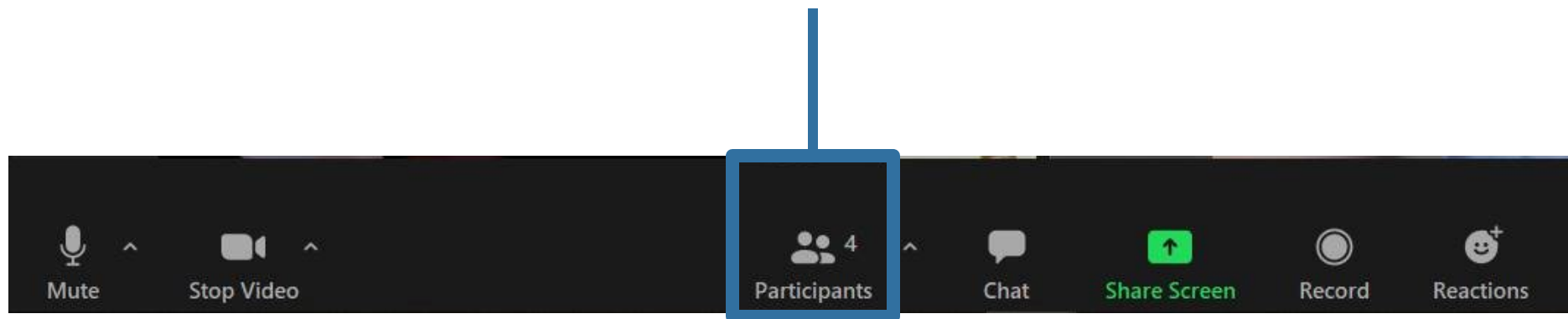
Note: All participant microphones will be muted while the speaker is presenting.



Participants

View other participants.

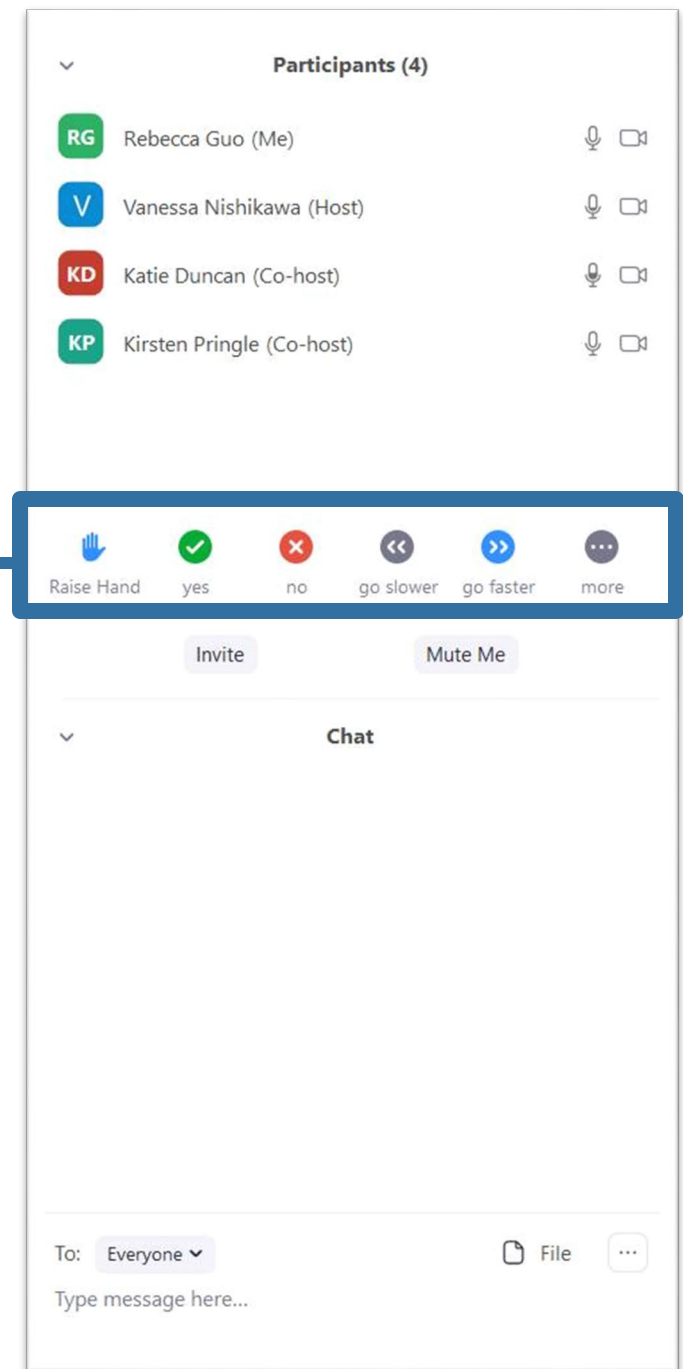
Provide non-verbal feedback.



Provide Nonverbal Feedback

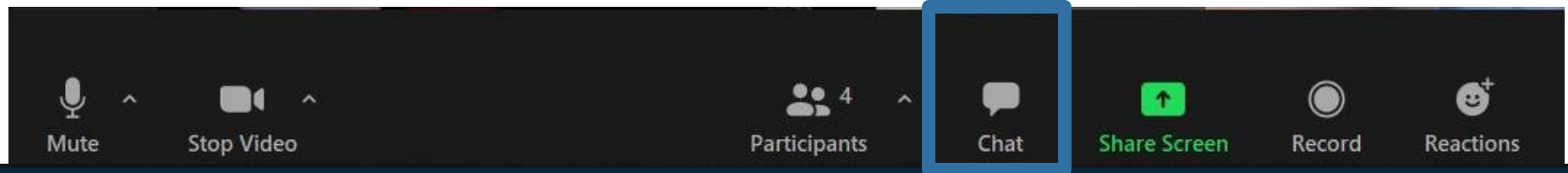
Provide nonverbal feedback in the Participants Window.

The feedback will be visible to both the hosts and other meeting participants.



Chat

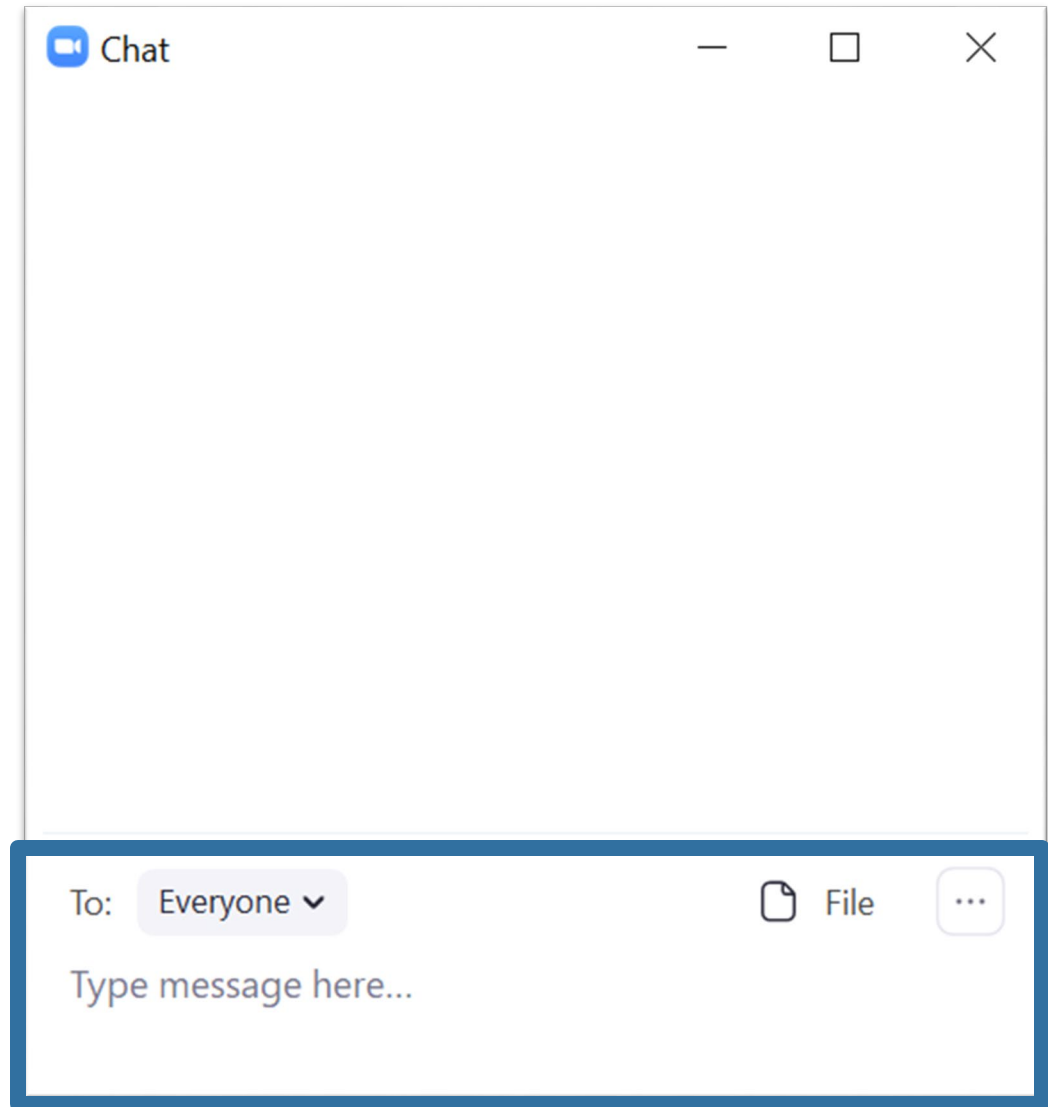
Send a message to the meeting organizers or other participants.



Chat

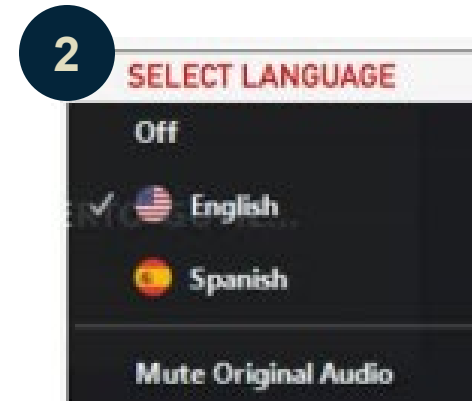
Select who to send your message to in the “To” section. You can message to all the meeting participants or just the hosts.

Type your message in the box at the bottom of the Chat Window.



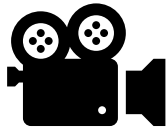
Instrucciones de interpretación

1. La esfera en forma de mundo (indicada dentro del círculo amarillo en la imagen de arriba) indica que hay interpretación disponible. Haga clic en la esfera en forma de mundo.
2. Dirija el cursor de la computadora y haga clic sobre la palabra “Spanish”.
3. Permanezca en el canal de español todo el tiempo para escuchar todo lo que se está diciendo en español.



Una vez que usted escoja el canal de español para escuchar, el idioma original (o sea el inglés) se escuchará a un volumen más bajo. Si usted prefiere, y para no confundirse al escuchar los dos idiomas, puede dirigir el cursor de la computadora y hacer clic sobre las palabras “**Mute Original Audio**” De esta manera usted no escuchará el inglés a un volumen más bajo al mismo tiempo que el español, y por lo tanto usted escuchará solamente el español

This Meeting is Being Recorded



A recording of the webinar and copies of the webinar materials will be uploaded on the Tracy website at

www.tracysubbasin.org

Poll Question # 1

Which of the following best represents your interest in groundwater:

- ☐ I use groundwater for my home or business
- ☐ I use groundwater for my farm or ranch
- ☐ I work for an organization that represents domestic users of groundwater
- ☐ I work for an organization that represents environmental users of groundwater
- ☐ I represent a neighboring groundwater basin
- ☐ Other (please include in chat)

Poll Question # 2

Which of the following best represents your prior participation in the GSP development process:

- ☐ I regularly attend public meetings and workshops
- ☐ I have attended one or two public meetings or workshops
- ☐ I have never attended a meeting or workshop, but I am familiar with SGMA
- ☐ I have never attended a meeting or workshop and this is new information to me
- ☐ Other (please include in chat)

Poll Question # 3

Which of the following best represents your goal in attending today's workshop:

- ☐ I heard about the Groundwater Sustainability Plan and want to learn more
- ☐ I want to know how I can provide comments on the draft Groundwater Sustainability Plan
- ☐ I want to know more about the content of the draft Groundwater Sustainability Plan
- ☐ I have a question about a specific topic related to the Groundwater Sustainability Plan
- ☐ Other (please include in chat)

Overview of the Draft GSP

Sustainable Groundwater Management Act Key Terms

SGMA = Sustainable Groundwater Management Act

GSA = Groundwater Sustainability Agency

GSP = Groundwater Sustainability Plan

DWR = California Department of Water Resources

GROUNDWATER SUSTAINABILITY PLAN OVERVIEW

Introduction & Background

- Chapter 1 – Introduction
- Chapter 2 – Agency Information
- Chapter 3 – Description of Plan Area

Defining Basin Conditions

- Chapter 4 – Hydrogeologic Conceptual Model
- Chapter 5 – Groundwater Conditions
- Chapter 6 – Management Areas
- Chapter 7 – Water Budgets



Measuring and Monitoring Basin Sustainability

- Chapter 8 – Monitoring Networks
- Chapter 9 – Sustainable Management Criteria

Achieving Sustainability

- Chapter 10 – Projects and Management Actions

Engaging Groundwater Users

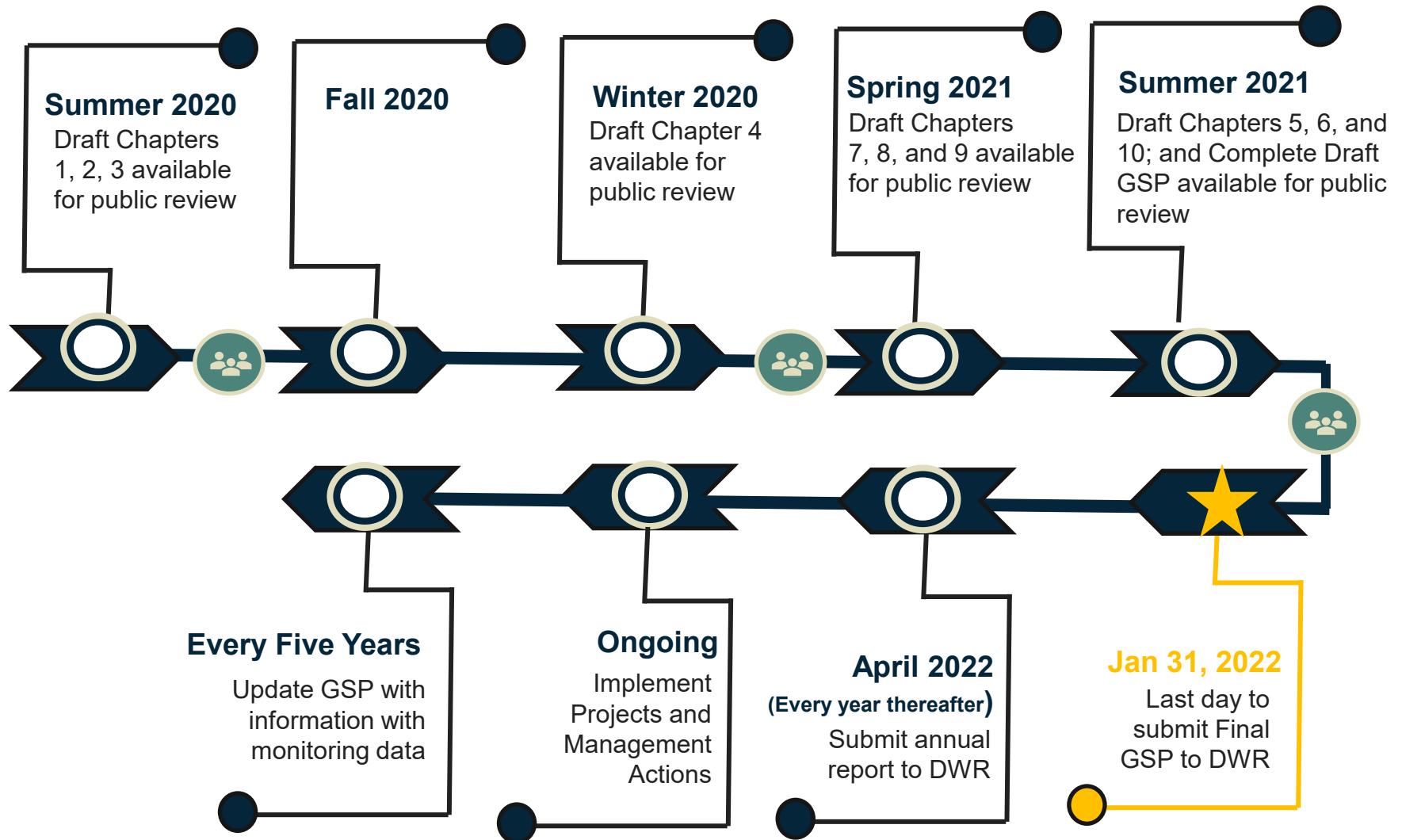
- Chapter 11 – Notice and Communication

Draft GSP Public Comment Process

30-day Public Comment Period: August 9 – September 9

- Submit a comment using the virtual public comment form found on the Tracy Subbasin website (preferred):
<https://tracysubbasin.org/gsp-chapters/>
- Email your comment to mzidar@sjgov.org
- Mail your written comment to:
Matt Zidar, San Joaquin County
1810 E. Hazelton Avenue
Stockton, CA 95201

GSP Development Process



= Public Workshop
or Hearing

Tracy Subbasin

Poll Question # 4

Which of the following Groundwater Sustainability Plan topics are you most interested in discussing or learning about:

- ☐ Management areas
- ☐ Water budgets and groundwater conditions
- ☐ Groundwater monitoring network
- ☐ Sustainable management criteria
- ☐ Projects and management actions
- ☐ Other (please indicate in the chat box)

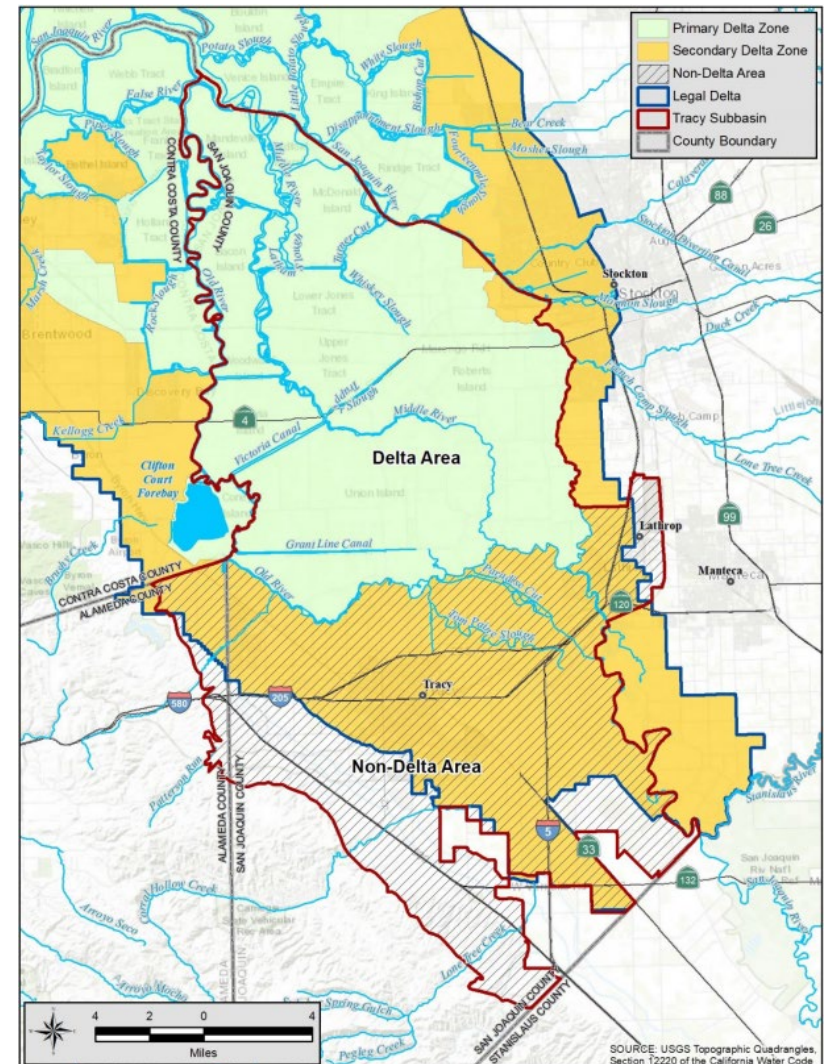
MANAGEMENT AREAS

CHAPTER 6

The Tracy Subbasin was divided into two management areas:

- **Delta Management Area:** The area of the Subbasin north of Old River.
Non-Delta Management Area: The area of the Subbasin south of Old River

Sustainable management criteria is only being set for the Non-Delta Management Area.



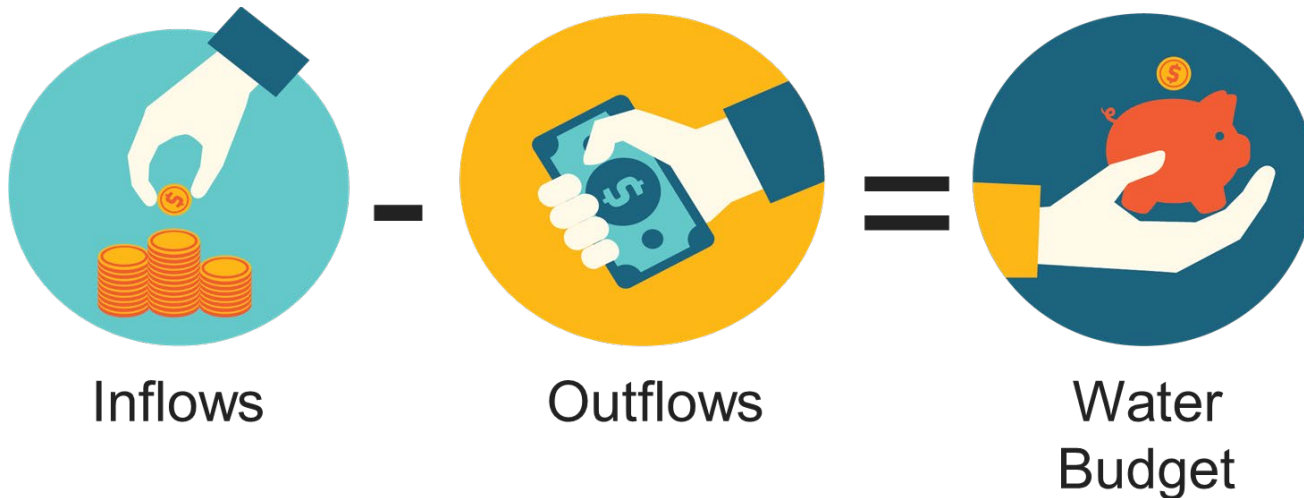
WATER BUDGETS

CHAPTER 7

What is it?

“A water budget is a foundational tool used to compile water inflows (supplies) and outflows (demands). It is an accounting of the total groundwater and surface water entering and leaving a basin or user-defined area. The difference between inflows and outflows is a change in the amount of water stored. ”

From the California Department of Water Resources' Water Budget Best Practice



WATER BUDGETS

CHAPTER 7

Tracy Subbasin (Delta and Non-Delta Management Areas)	INFLOWS (average acre-feet per year)	OUTFLOWS (average acre-feet per year)	CHANGE IN STORAGE (total acre-feet)
Historic Water Budget (1974 -2015)	384,151	381,243	2,908
Current Water Budget (2003 – 2013)	407,221	394,989	12,232
Projected (Future) Water Budget (2016 - 2065)	431,242	430,254	988

What does this mean?

The Tracy Subbasin as a whole is in balance and is sustainable.

Tracy Subbasin

WATER BUDGETS – NON-DELTA AREAS

CHAPTER 7

Tracy Subbasin (Non-Delta Management Area Only)	INFLOWS (average acre-feet per year)	OUTFLOWS (average acre-feet per year)	CHANGE IN STORAGE (acre-feet)
Upper Aquifer	184,375	185,224	-849
Lower Aquifer	49,292	49,155	137

What does this mean?

To maintain basin sustainability, **the Groundwater Sustainability Agencies need to make up for a deficit of about 800 acre-feet per year** based on projected changes in the Subbasin, including climate change projected through 2065.

Tracy Subbasin

MONITORING NETWORK

CHAPTER 8

Representative Monitoring Network (Non-Delta Management Area)

The Groundwater Sustainability Agencies have identified the following groundwater monitoring wells in the Non-Delta Management Area to be part of the Subbasin monitoring network:

- *Chronic Lowering of Groundwater Levels, Reduction in Storage* – 18 wells in Upper Aquifer and 23 wells in the Lower Aquifer
- *Groundwater Quality* – 3 wells in the Upper Aquifer and 5 wells in the Lower Aquifer
- *Surface Water Depletion* – 9 wells in the Upper Aquifer and 3 wells in the Lower Aquifer

Subsidence will be measured using satellite-based elevation surveys.

SUSTAINABLE MANAGEMENT CRITERIA

CHAPTER 9

What is it?

“GSP [Groundwater Sustainability Plan] Regulations collect together several requirements of a GSP under the heading of ‘Sustainable Management Criteria’ in Subarticle 3 of Article 5.5 Sustainable management criteria include:

- Sustainability Goal
- Undesirable Results
- Minimum Thresholds
- Measurable Objectives”

From the California Department of Water Resources’ Draft Sustainable Management Criteria Best Practice



SUSTAINABLE MANAGEMENT CRITERIA

CHAPTER 9

Sustainability Goal

To provide reliable and sustainable groundwater resources for existing and future needs of all beneficial users in the Subbasin that does not degrade or decrease over-time and will continue to be sustained through continued local adaptive management of the resources.



SUSTAINABLE MANAGEMENT CRITERIA







CHAPTER 9

Undesirable Results, Minimum Thresholds, and Measurable Objectives

Groundwater sustainability indicators are one of six effects caused by groundwater conditions that, when **significant and unreasonable**, cause undesirable results. The six sustainability indicators are: (1) chronic lowering of groundwater levels, (2) reduction of storage, (3) seawater intrusion, (3) seawater intrusion, (4) degraded water quality, (5) land subsidence, (6) depletions of interconnected surface water.

The GSP identifies locally defined significant and undesirable results, minimum thresholds, and measurable objectives for each of the sustainability criteria except for seawater intrusion. Sustainable management criteria is only set for the portion of the Subbasin *not* in the Delta (the Non-Delta Management Area).

Sustainability Indicators and Undesirable Results

Sustainability Indicators	 Lowering GW Levels	 Reduction of Storage	 Lowering GW Levels	 Degraded Quality	 Land Subsidence	 Surface Water Depletion
Metric(s) Defined in GSP Regulations	<ul style="list-style-type: none"> Groundwater Elevation 	<ul style="list-style-type: none"> Extraction Volume 	<ul style="list-style-type: none"> Chloride concentration isoc 	<ul style="list-style-type: none"> Migration of Plumes Number of supply wells Volume Location of isocontour 	<ul style="list-style-type: none"> Rate and Extent of Land Subsidence 	<ul style="list-style-type: none"> Volume or rate of surface water depletion

Source: DWR

PROJECTS AND MANAGEMENT ACTIONS

CHAPTER 10

What is it?

“Projects and management actions are used to meet the measurable objectives and maintain groundwater levels above minimum thresholds. The Groundwater Sustainability Agencies created a list of 18 projects and actions to resolve shortfalls in groundwater supply. Ultimately two projects and one management action were selected, identified below.”

From the California Department of Water Resources' Water Budget Best Practice

PROJECTS AND MANAGEMENT ACTIONS

CHAPTER 10

Project or Management Action Description	Owner	Potential Implementation Time	Potential Recharge (Acre-feet)
Expand distribution facilities to provide surface water to areas previously reliant on groundwater.	Banta Carbona Irrigation District	2023 - 2030	1,000
Review and consider Well Ordinance - (1) Create surface water depletion protection zones near rivers and sloughs. Minimum sanitary seal and screen depth requirements to limit direct interconnection to surface water. (2) Well spacing requirements for high capacity irrigation or municipal wells from domestic wells.	San Joaquin County	2023 - 2025	N/A

SUPPLEMENTAL PROJECTS

CHAPTER 10

Supplemental Projects	Owner	Potential Implementation Time	Potential Recharge (Acre-feet)
Further expand distribution facilities to provide surface water to areas previously reliant on groundwater.	Banta Carbona Irrigation District	2023 - 2030	3,000
Convert existing Production Wells to Aquifer Storage and Recovery wells to store surface water in the Lower Aquifer for later use.	City of Tracy	2025 - 2040	3,000

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- Email your comment to mzidar@sjgov.org
- Submit a written comment to:
Matt Zidar, San Joaquin County
1810 E. Hazelton Avenue
Stockton, CA 95201

Poll Question # 5

What is the best way to keep you informed about development and implementation of the GSP:

- ☐ Posts on the Tracy Subbasin website
- ☐ Updates sent out through the Tracy Subbasin email list
- ☐ Updates sent out through my local city or county's email list
- ☐ Updates sent out through my local water provider's or irrigation district's email list
- ☐ Social media posts
- ☐ Other (put answer in chat box)



For more information visit the
Tracy Subbasin website:

<https://tracysubbasin.org>

For questions, contact
Matt Zidar, San Joaquin County,
mzidar@sjgov.org