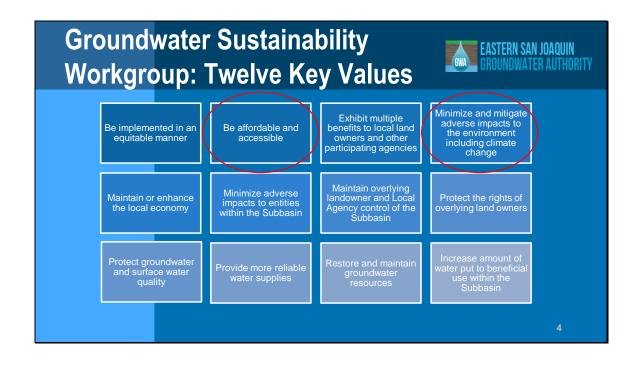


Agenda Comments on Meeting Notes Update on Background Conditions Undesirable Results & Minimum Thresholds Brainstorming for Open House Station Announcements Other Topics

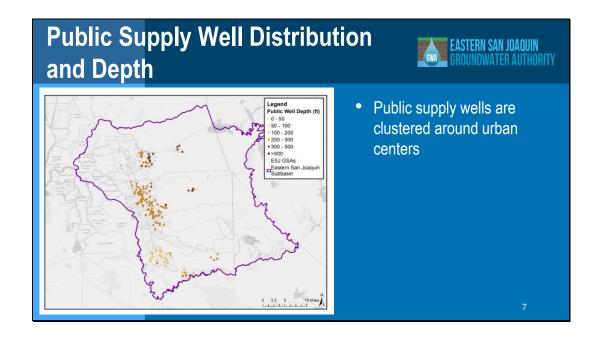


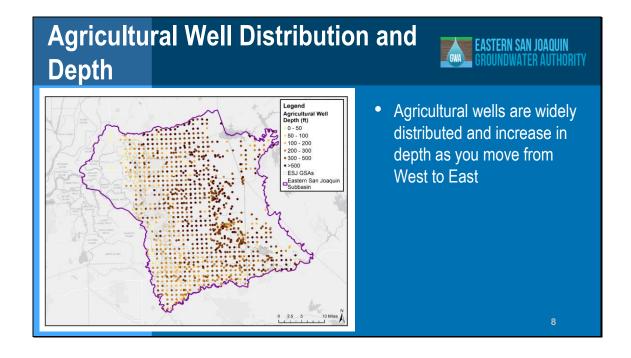


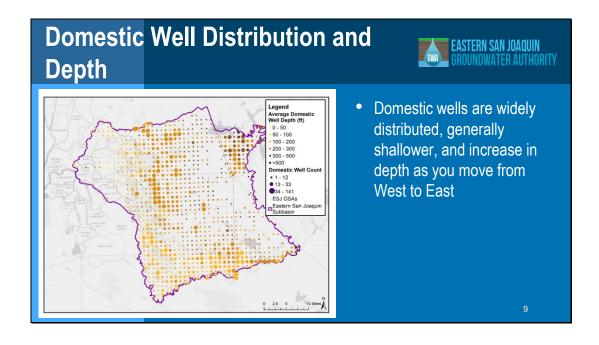


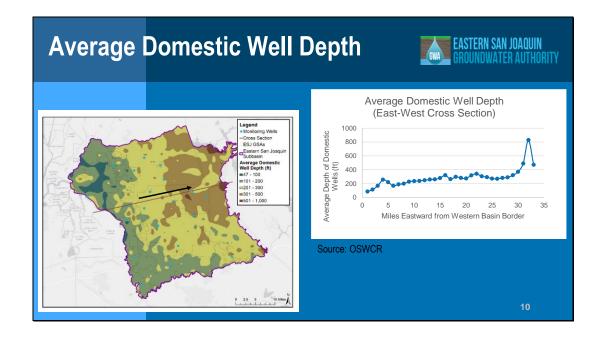
Well Data Availability EASTERN SAN JOAQUIN GROUNDWATER AUTHORITY								
				Data Provided				
D	ataset	Count	Well Type	Well Depth	Groundwater Levels	Groundwater Quality	Well Location	
CASGEM		147	(Limited)	(Limited)	x		Х	
CASGEM (Voluntary)	685	(Limited)	(Limited)	Х		Х	
	CDPH	650	Х	Х		х	Х	
CV-SALTS	Dairies	534	x	Х		Х	X	
	GeoTracker	650	X	Х		Х	X	
Data Recei	ved Directly from	243	X (Public and monitoring wells)	x	(Limited)	х	х	
GAMA		225	Х	(Limited)		х	Х	
	Domestic	10,034	x	х				
OSWCR	Agricultural	2,909	Х	Х				
	Public Supply	364	х	х				
San Joaquii	n County	193	(Limited)	(Limited)	х		Х	

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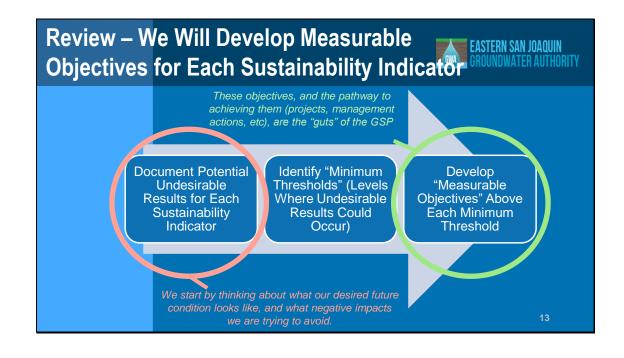












Undesirable Results are Negative Impacts that Can Occur for Each Sustainability Indicator GROUNDWATER AUTHORITY

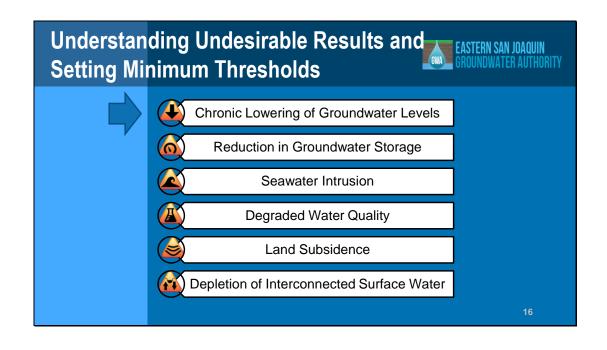
- Undesirable Results are conditions that we do not want to have happen
- They will be used to guide and justify other GSP components including:
 - Monitoring Site Locations
 - Management Thresholds
 - Projects and Management Actions

Minimum Thresholds are the Levels at which Undesirable Results May Begin to Occur



- Minimum Thresholds are the lowest levels the basin can go at a given monitoring point without something significant and unreasonable happening to groundwater
- These are quantitative thresholds

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Undesirable Results for Chronic Lowering of Groundwater Levels Chronic Lowering of Groundwater Levels Why is this a concern? What are we trying to avoid? Wells going dry Reduced production Higher pumping costs due to greater lift Deeper installation (more expensive drilling) Discussion: other potential effects to consider?

Review – Groundwater Elevation Conditions (blue) – Areas that have recovered since 1992 drought (red) – Areas that have declined since 1992 drought

Minimum Thresholds for Groundwater Elevation: Status



- 1) Mapped the lower groundwater elevation for 1992 or 2015, compared to current levels
- 2) Met with GSAs to confirm understanding
- 3) Compared to domestic well depths
- 4) Identified monitoring locations for groundwater thresholds



Undesirable Results for Reduction in Groundwater Storage



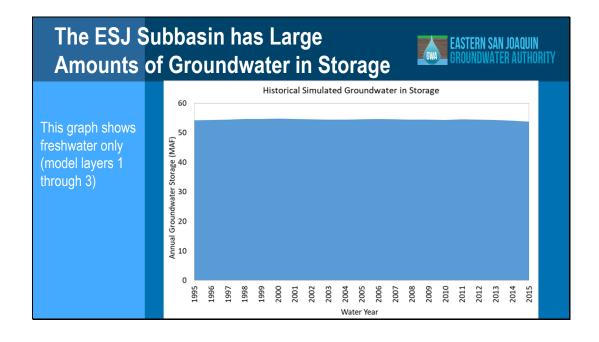


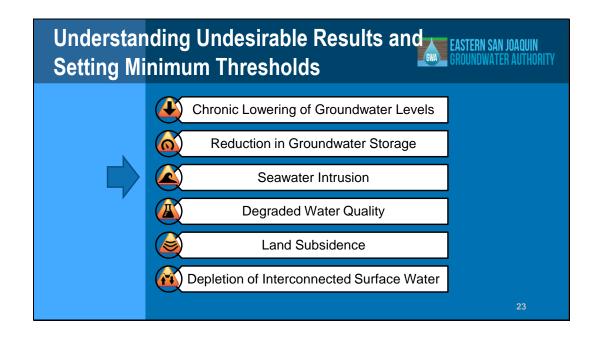
Reduction in Groundwater Storage

Why is this a concern? What are we trying to avoid?

- This is not a major concern
- Large basin storage (42 MAF), no chronic reduction that impacts supply needs
- Undesirable result = running out of sufficient storage to get through drought

***This does not mean we do not need to bring the basin into balance, it only means that groundwater-related impacts will be more sensitive to other indicators, such as groundwater elevations.





Undesirable Results for Seawater Intrusion

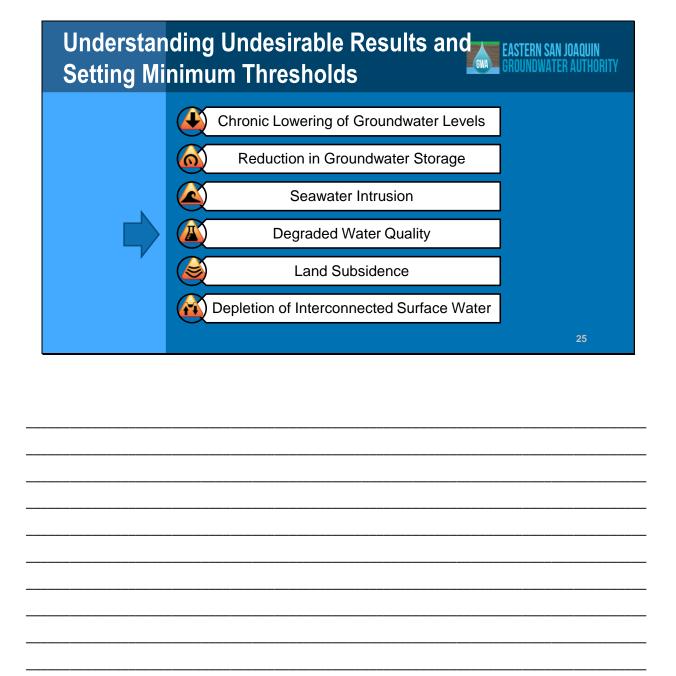




Seawater Intrusion

Why is this a concern? What are we trying to avoid?

 Direct seawater intrusion does not occur in the Subbasin and thresholds do not need to be addressed; salinity will be addressed via the Water Quality Sustainability Indicator



Undesirable Results for Degraded Water Quality





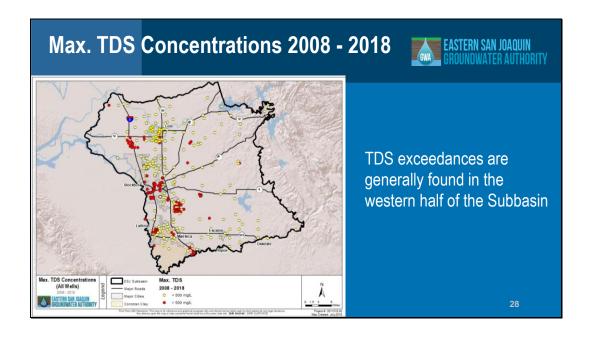
Degraded Water Quality

Why is this a concern? What are we trying to avoid?

- Localized salinity issues connate water and delta brackish water intrusion from reduced water levels
- Nitrates septic and agricultural historical issues. Being addressed through CV SALTS and Irrigated Lands programs.

Discussion: other potential effects to consider?

Identified Concerns for Water Quality What we've heard from the GWA Advisory Committee: Salinity Arsenic (naturally occurring) Plumes 1,2,3 TCP Others?

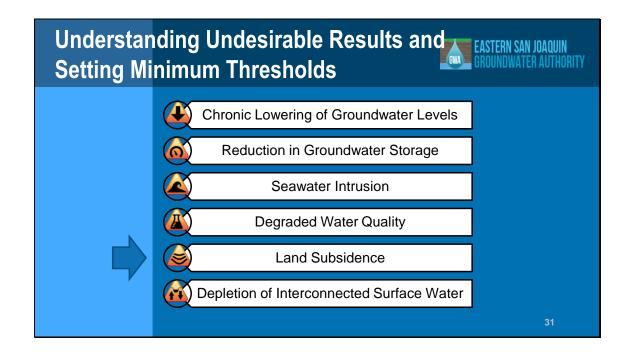


Potential Plumes Sites with the potential to cause a groundwater plume (based on constituents) Avoid these sites when considering monitoring programs Active Groundwater (Containation Cleanup Sites - Potential (and Condaination Cleanup Sites - Potential Cleanup Sites - Potential (and Condaination Cleanup Sites - Potential (and Condaination Cleanup Sites - Potential Cleanup Sites

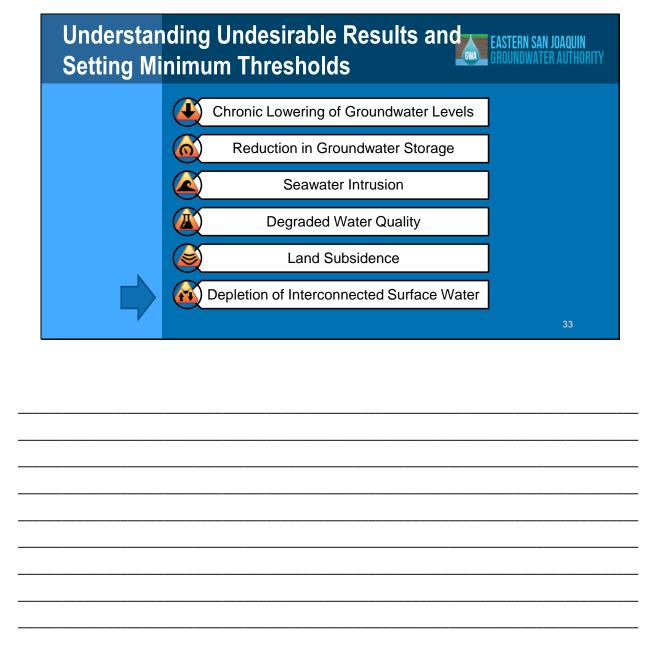
Minimum Thresholds for Water Quality: Status



- 1) Identifying a subset of monitoring wells through advisory committee and GSAs in areas with or bordering high saline
- 2) Identifying sites where regulated contaminants are present and developing coordination and communication pathways



Undesirable Results for Land Subsidence Land Subsidence Why is this a concern? What are we trying to avoid? Impacts to private and public infrastructure Discussion: other potential effects to consider?



Undesirable Results for Depletion of Interconnected Surface Water





Depletion of Interconnected Surface Water

Why is this a concern? What are we trying to avoid?

- · Ability to meet minimum flow requirements
- Recreation impacts
- · Fisheries impacts/temperature
- Habitat impacts
- GDEs
- · Impacts to water supply for reservoirs
- · Water rights issues
- Water quality issues

Discussion: other potential effects to consider?

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Minimum Threshold Development for Depletion of Interconnected Surface Water Major river systems in the Subbasin are highly managed. Instream flow requirements, water quality standards, and water rights govern upstream releases.

Potential Approach for Developing Minimum Thresholds for Interconnected Surface Waters



- 1) Recognize existing management and regulatory programs in place
- 2) Identify coordination and management activities that integrate with existing programs
- 3) Identify losing streams and consider elevation thresholds to protect against significant and unreasonable stream depletion



Public Meeting/Open House – August 29th



- The first Public Open House will be held on August 29 at 6:30pm
- The event will follow an open house format with one outreach station for each GSA
- SGMA background provided through four stations (Background, Process, Get Involved, Technology)
- GSAs are strongly encouraged to participate
- Outreach flyer provided

August 29th

Calaveras Room

6:30 p.m. – 8 p.m. Robert J. Cabral Agricultural Center,



Public Meeting Outreach Efforts



August 29 6:30 p.m. – 8 p.m.



Robert J. Cabral Agricultural Center, Calaveras Room Mailer: We will distribute to 400+ NGOs, local businesses & water suppliers

Bilingual Flyer: A bilingual flyer be emailed to 200+ NGOs, local businesses, and water suppliers. It has also been provided to members of the ESJ Board, Advisory Committee, & Groundwater Sustainability Workgroup

Press Release: A press release will be distributed to local media outlets & organizations with newsletters



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