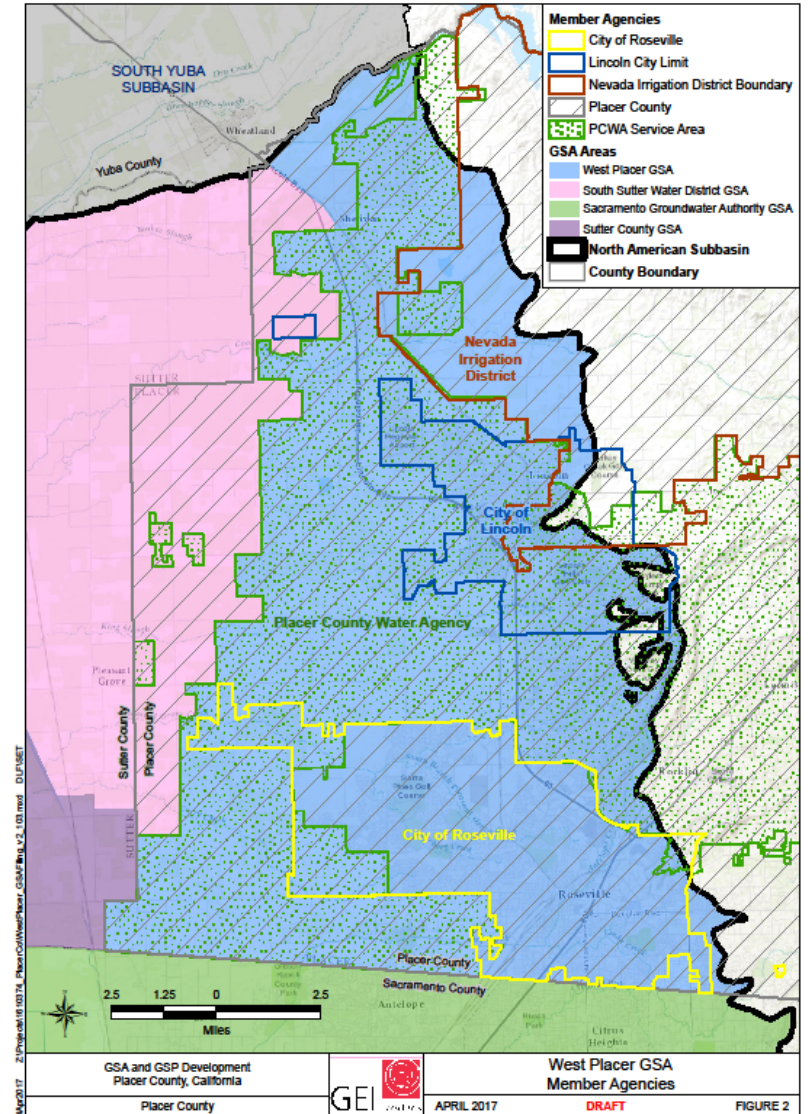




West Placer Groundwater Sustainability Agency Public Meeting October 12, 2017



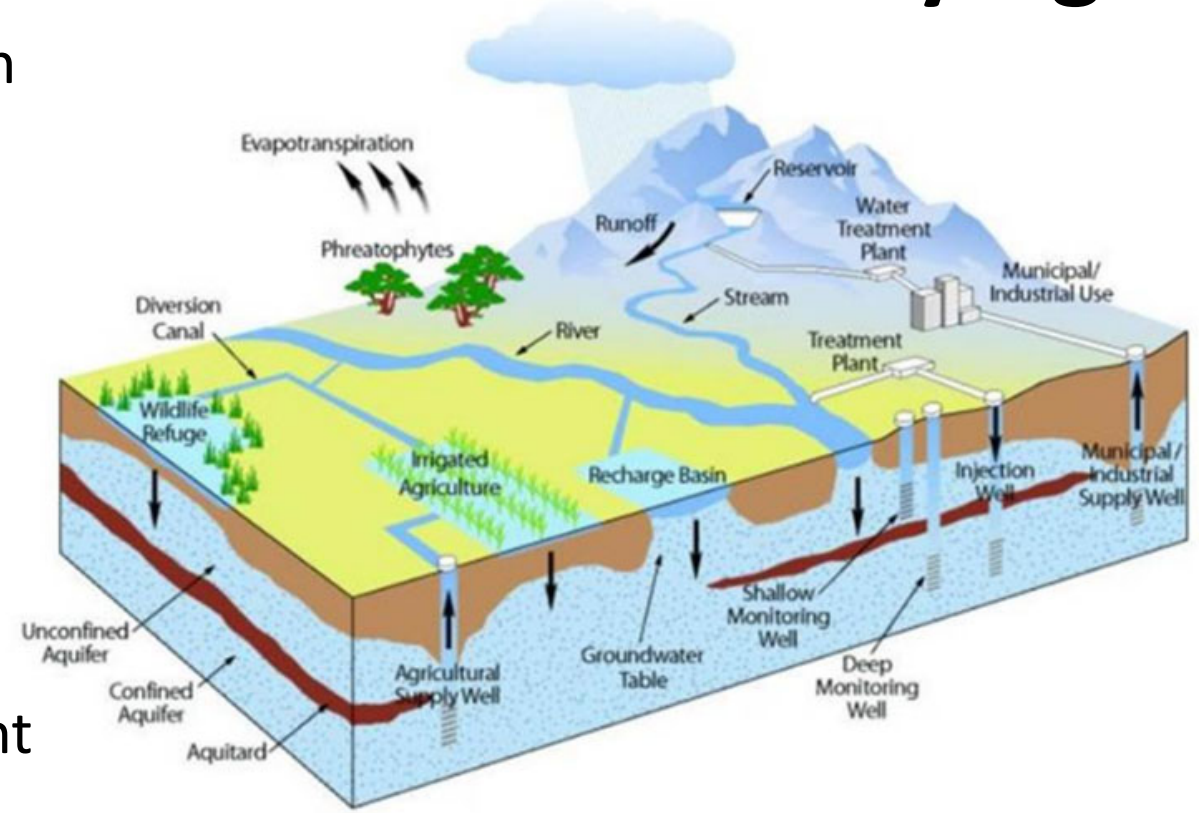


Agenda

1. Public comment period
2. GSA Discussion Items
3. GSP Discussion Items
4. Current Placer County Prop. 1 supporting SGMA - Grant Status
5. Items anticipated at next Public Meeting
6. Agency Updates

West Placer Groundwater Sustainability Agency

- Covers portion of North American Sub Basin
- Forming Agencies:
 - City of Lincoln
 - City of Roseville
 - Placer County Water Agency (PCWA)
 - Placer County
 - Nevada Irrigation District
 - Cal American Water (Cal Am)
- Approved by DWR as exclusive to implement SGMA





Sustainable Groundwater Management Act of 2014

- Enacted by state of California in 2015
- Framework for local groundwater basin management
- Bring together all stakeholders – agencies, groundwater users, public
- Groundwater Sustainability Agency must be formed by June 30, 2017
- Groundwater Sustainability Plan due by January 31, 2022
- Only applies to wells using more than two acre feet of water per year
average family of 4 uses less than one acre foot/year



**Sustainability
Goal**

**Sustainable
Groundwater
Management**

**Sustainable
Yield**

Managing Groundwater Sustainability

Managing with a goal to reduce/avoid:

- Lowering of groundwater levels
- Water quality degradation
- Seawater intrusion
- Depletions of surface water
- Land subsidence
- Reduction of groundwater storage

Groundwater Sustainability Plan (GSP)

- Public Notice provided when GSP begins
 - (all agencies public meeting required)
- Public outreach necessary
- Plan due January 31, 2022
- State Department of Water Resources (DWR) must approve plan
- Annual reporting, every five-years must evaluate plan





SGMA Participation Roles

- **West Placer Member Agency**
 - Decision Authority: ***Must be voted on by the parent Public Agencies in Public meetings***
 - Ideas to be previewed at public meetings of the WPGSA
 - Technical Coordination: Staff working with various agencies/consultants to prepare SGMA related items
 - Budget/Funding: All partner agencies are funding and providing staffing and technical resources
- **Consultant** (GEI Consultants): Technical Development/Monitoring/Report Preparations
- **Public Involvement:** Regulatory/Tribal Stakeholders & Public at large
 - Review information
 - provide working insight
 - Review/provide input on possible decision alternatives



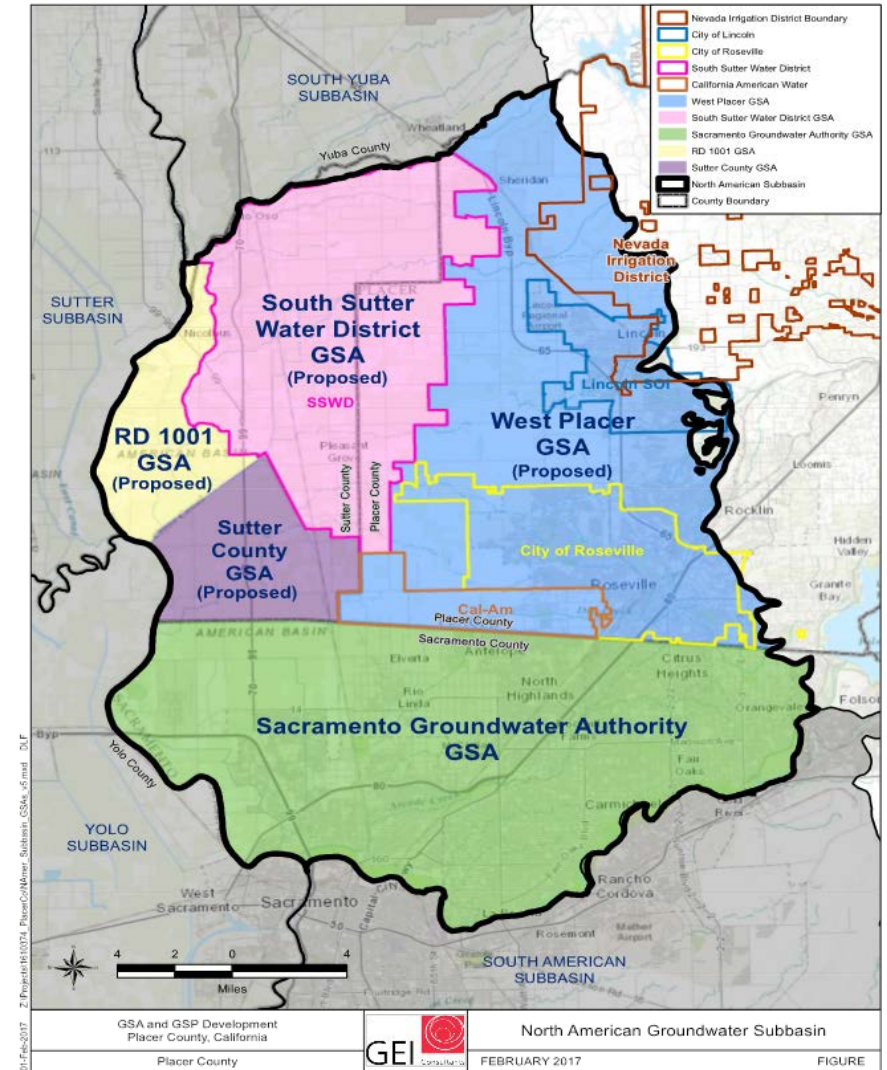
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Groundwater Sustainability Plan (GSP) Update



North American Subbasin – One GSP

- Sacramento GSA
- West Placer GSA
- South Sutter Water District GSA
- Sutter County GSA
- RD 1001 GSA





GSP Budget and Funding

BUDGET

- NASb GSA Coordination team Hired GEI to prepare GSP, work scope and cost estimate
- Current Estimate is \$1.76M

FUNDING

- GSAs will cost share by acreage
- Pursing Prop 1 Grant – up to \$1M available
- Requires 50% cost share
- WP GSA est. share - \$240K



Proposition 1 Grant for GSP Development

- DWR has issued final solicitation package
- Applications are due November 13, 2017
- Sacramento GSA has agreed to be lead
- Grant application is currently under development
- Project Agreement will follow after grant application



Proposition 1 Groundwater Grant: Land Use and Ordinances



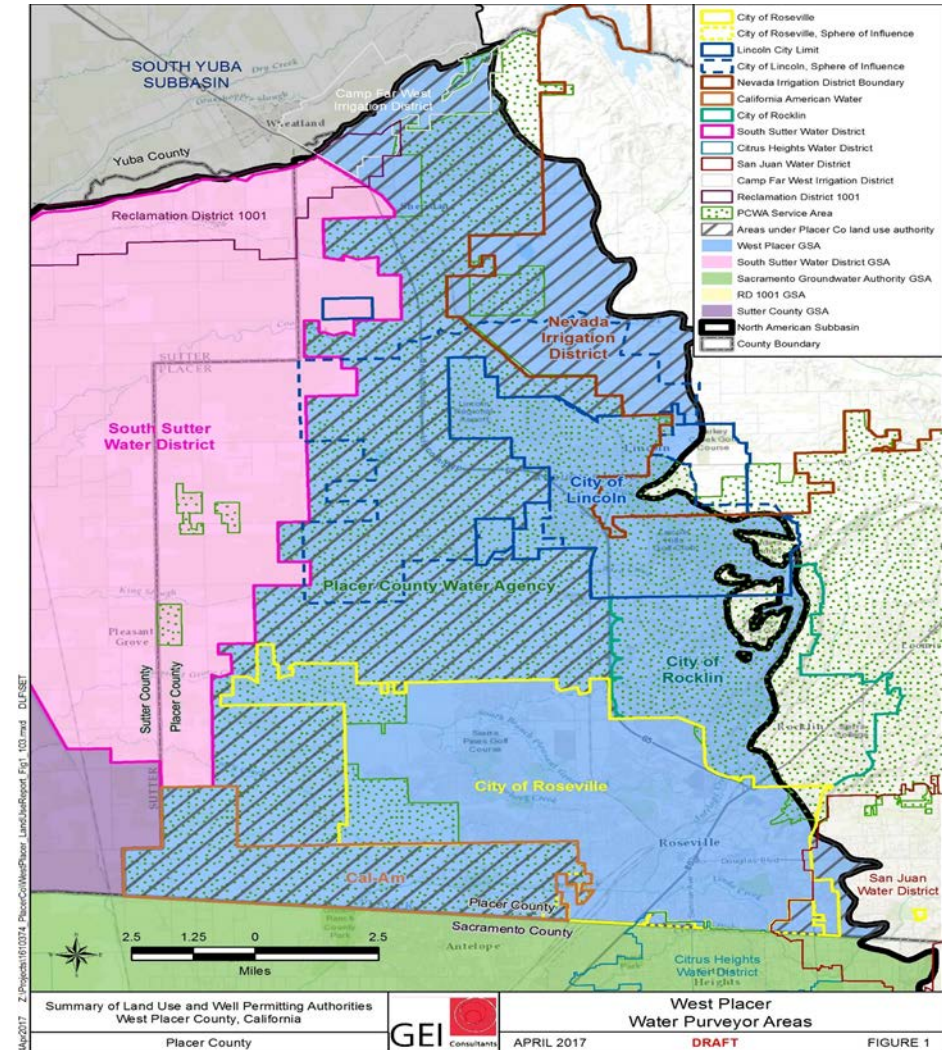
Project Purpose

- Identify land use planning and permitting authorities for use in preparing Groundwater Sustainability Agency agreements and during development of Groundwater Sustainability Plans:
- Identify:
 - Who has land use and permitting authority
 - Are there similar ordinances
 - Are there potential gaps
 - What is the forecasted future groundwater demand



Authorities

- Land Use – Placer County, City of Roseville, City of Lincoln, City of Rocklin
- Water Supply – Placer County, PCWA, City of Roseville, City of Lincoln, NID, SSWD, Camp Far West Irrigation District, San Juan Water District, Citrus Heights Water District, California American Water, RD 1001
- Wells – State, Placer County, City of Roseville, PCWA



Forecasted Groundwater Demand

- Limited projections for future groundwater use
- Urban growth will use surface water
- Urban groundwater use will remain within historic amounts
- Urban development will construct wells for backup or dry year supply augmentation

Entity	2012 ¹	2015	2020	2025	2030	2035	2040
	acre-feet per year						
California American Water	0	No reported projection					
Private Well Owner (Cal Am area)	7,383	No reported projection					
City of Lincoln ^{3 and 4}	2,443	707	1,119	1,271	1,486	1,701	2,056
Private Well Owner (Lincoln SOI)	13,853	No reported projection					
City of Rocklin	0	No reported projection					
City of Roseville ^{2 and 3}	0	6	9,684	16,947	16,947	21,789	21,789
City of Roseville (Reason Farms)	1,729	No reported projection					
Nevada Irrigation District	0	No reported projection					
Placer County Water Agency	749	No reported projection					
Private Well Owner (PCWA area)	28,152	No reported projection					
Placer County (Sheridan)	100	No reported projection					
Placer County (Unfranchised Areas)	2,285	No reported projection					
South Sutter Water District ⁵	0	No reported projection					
Private Well Owner (SSWD area)	30,292	No reported projection					
San Juan Water District	NR	Not reported for Placer County Portion					
Citrus Heights Water District	NR	Not reported for Placer County Portion					
Camp Far West Irrigation District	NR	No reported projection					
RD 1001	NR	Not reported for Placer County Portion					

¹ Extraction values obtained from the 2013 Sustainable Yield Report.

² Roseville values 2020-2040 are for urban water demand. Projected future groundwater supply based on a well expansion program and is not part of normal year operations. Supply is to back-up or dry year supply augmentation.

³ Sources 2015-2040 are from each agency's Urban Water Management Plan.

⁴ In 2011 and 2012 City of Lincoln used about two to three times its normal groundwater use which results in a significantly lower projection for 2015 from the UWMP.

⁵ South Sutter Water District only provides surface water to agricultural users to meet about one-third of water demand. The remaining water demand is met from private groundwater wells.

NR = Not reported



Findings

- Urban growth will be on **surface water** and groundwater will be used only for **emergency supply to preserve groundwater for agricultural purposes.**
- Land use agencies have existing policies in place that allow for future development yet maintain a sustainable and reliable water supply.
- Existing policies allow for protection and reasonable use of groundwater.
- New well construction and destruction permitting is sufficient.
- New well ordinances may need to be developed limit surface water depletion and degradation of groundwater quality.



Proposition 1 Groundwater Grant: Groundwater Recharge

Potential Recharge Approaches

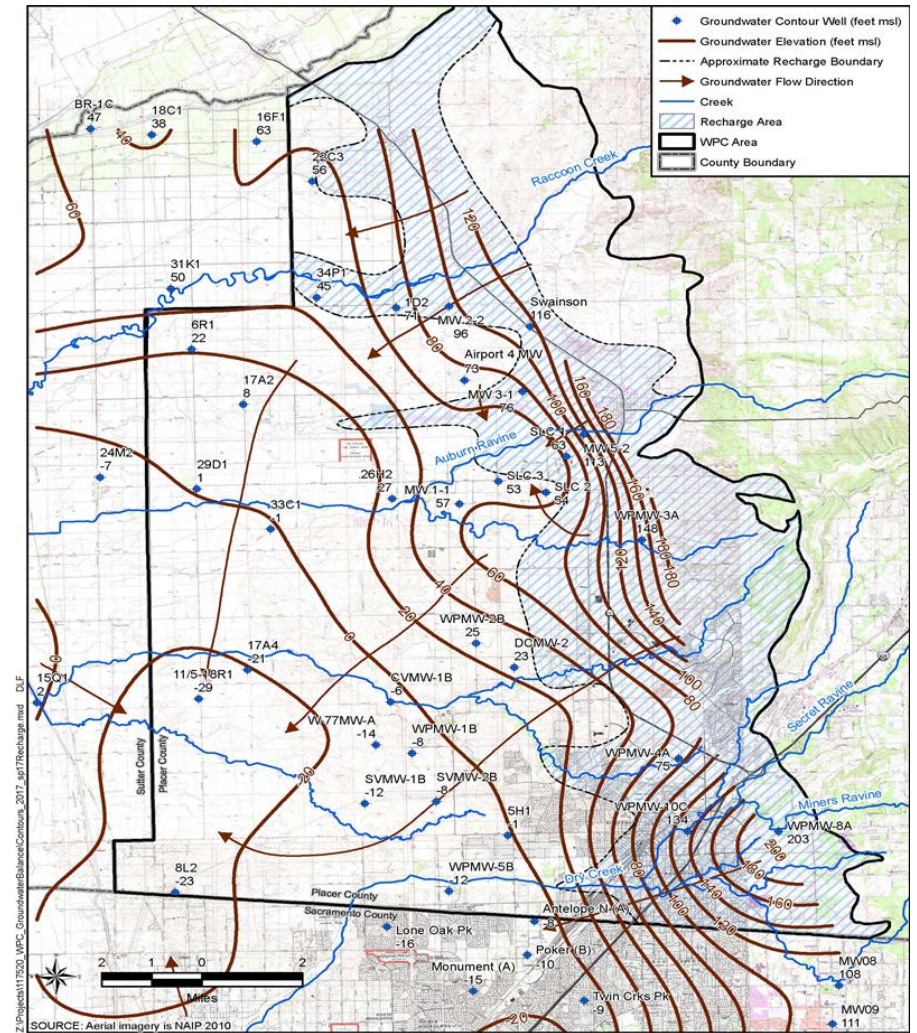


- Direct Recharge – Surface Water Spreading
 - Flood Control
 - Decorative Lakes
 - Open Spaces and Preserves
 - Spreading Basins
 - Flooding Agricultural Lands
 - Instream and Canal Replenishment
 - Mines
- Direct Recharge – Aquifer Storage and Recovery (ASR) Injection Method
- Indirect Recharge (In-Lieu Recharge)



Direct Recharge Areas

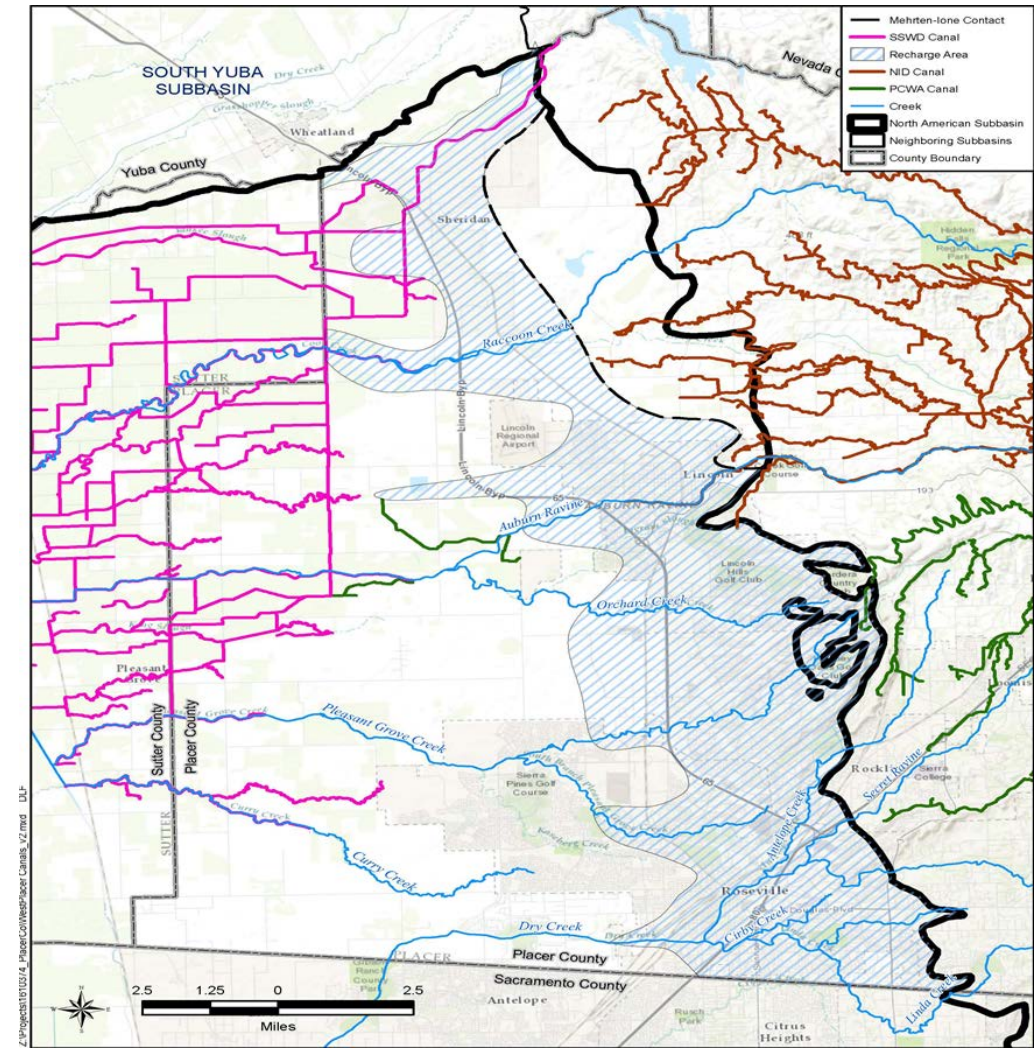
- Most effective recharge is where aquifers are exposed at or near ground surface
- Groundwater from recharge area moves generally from the east towards the west
- Can use the natural groundwater flow direction to convey water throughout Placer County





Potential Water Sources

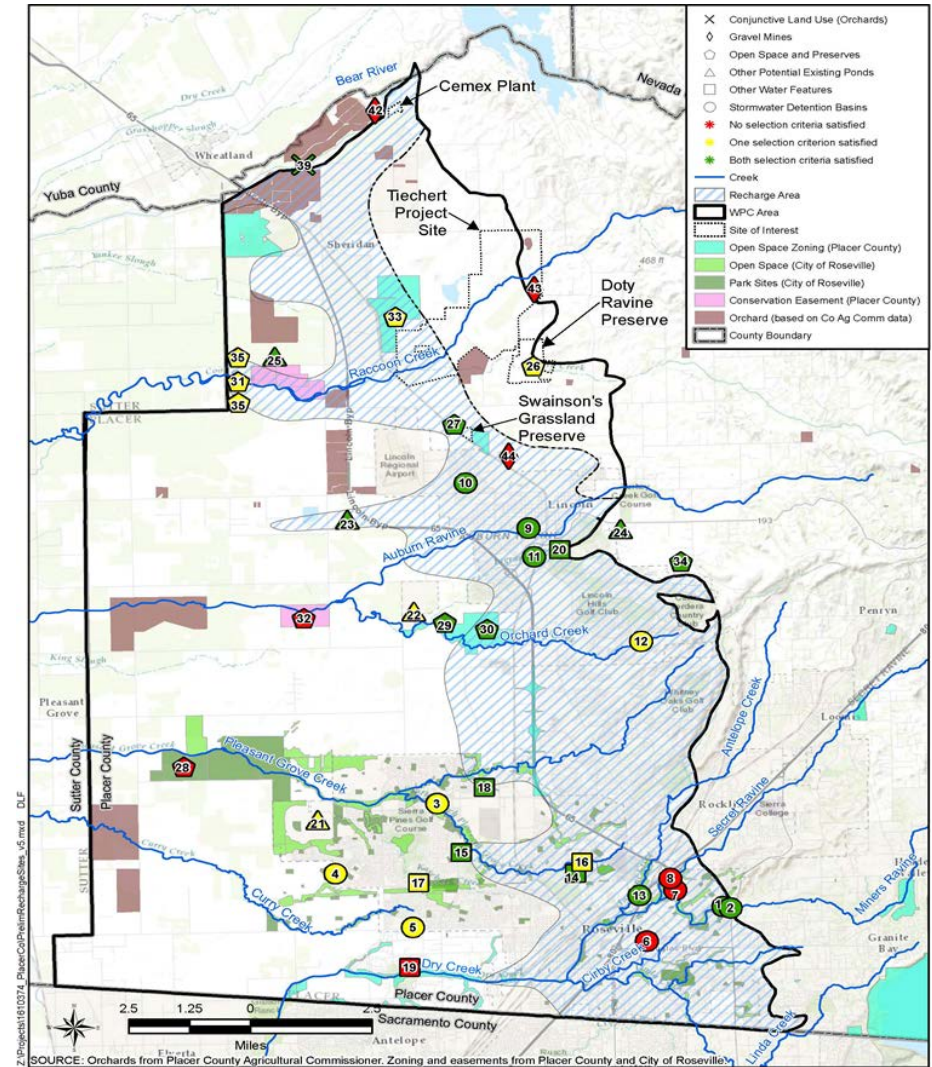
- Storm water – Placer County, Roseville, and Lincoln
- Raw Surface Water – PCWA, NID, SSWD
- Treated Surface Water – PCWA, Roseville and Lincoln
- Treated Wastewater – Roseville, Placer County and Lincoln





Potential Recharge Approaches and Locations

- Direct recharge, ASR wells and In-lieu are all feasible options
- Most effective direct recharge locations
 - Where soils are permeable
 - Aquifers daylight at or near ground surface
 - Evaluated 44 potential sites
 - 21 sites recommend for further evaluation





Items anticipated at next Public Meeting

- Biennial Groundwater Basin Report
- Groundwater Well Information System (GWIS) Development report
- GSP Grant Status
- Diesel pump replacement grant: Placer County Air Pollution Control District
- Plans/Expectations for 2018

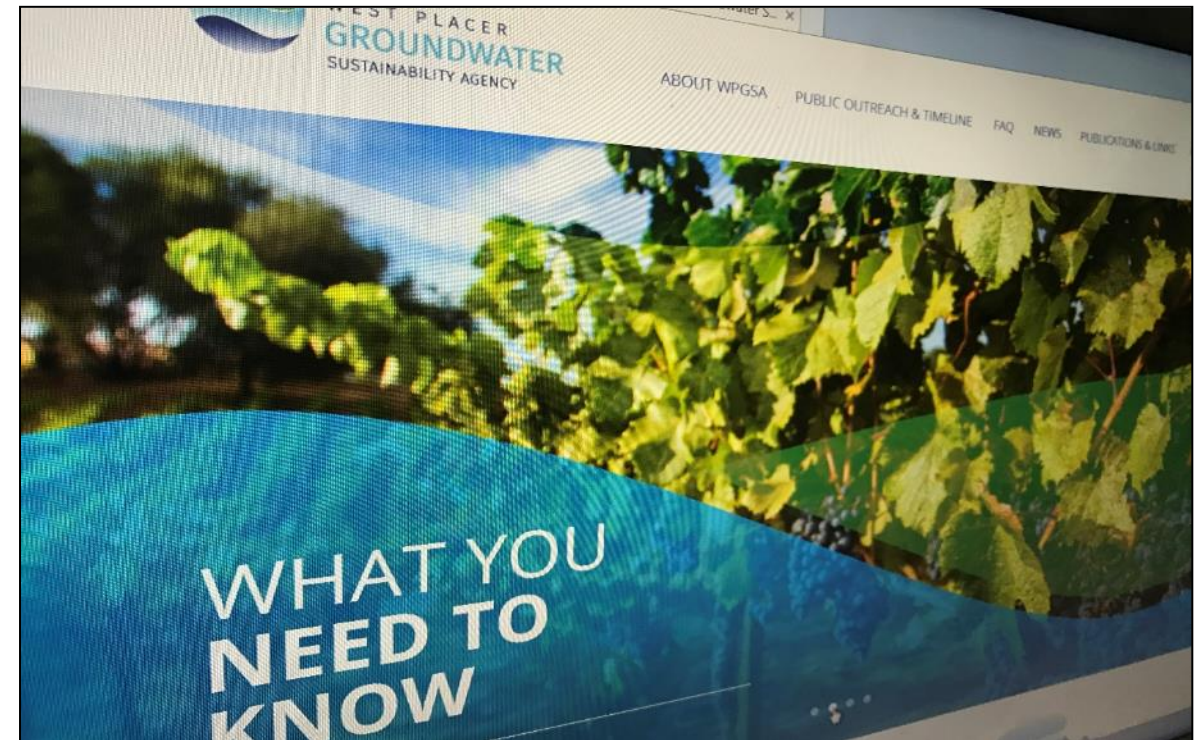


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Agency Updates

How to Stay Involved and Informed

- Visit project website:
 - westplacergroundwater.com
- Subscribe to email list
- Provide written comments
- Attend future stakeholder workshops





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Thank you for attending !