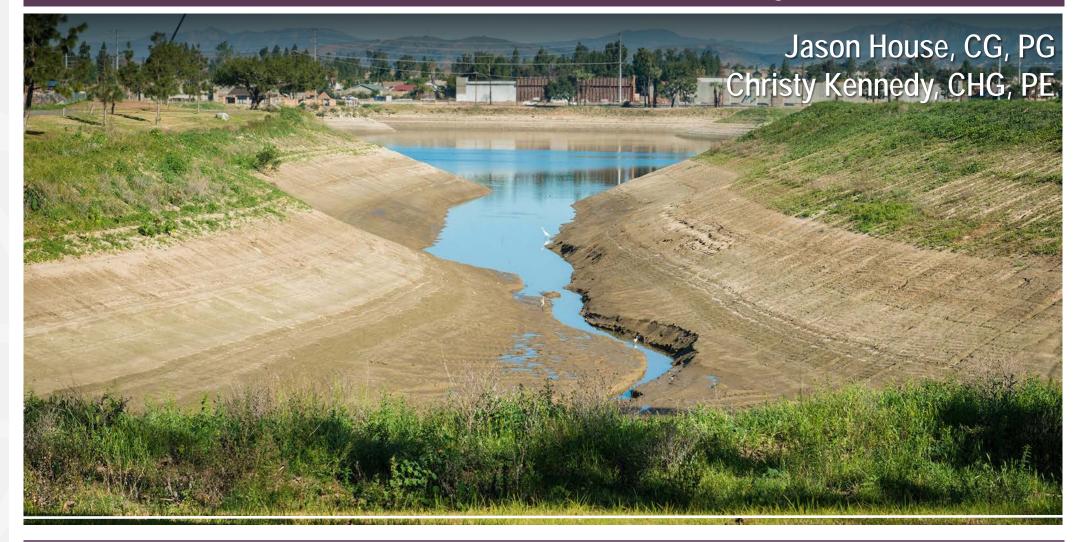


Mutual Benefits of GSA and Remediator Cooperation on Groundwater Basin Health and Sustainability





Presentation Outline

Requirements

Benefits of partnership between agencies and remediators

Engagement

COMMITMENT & INTEGRITY DRIVE RESULTS



SGMA requires GSAs to consider all groundwater interests within the basin

What is a remediator?

So why do you need to reach out?



Benefits to GSAs in partnership with Remediators

Tools remediation sites represent/have access to

- Monitoring networks
- Boring logs to support Hydrogeologic Conceptual Model
- Water level and quality data
- Models, flow/transport, particle tracking, geochemical
- Aquifer response to pumping/injection; pumping tests

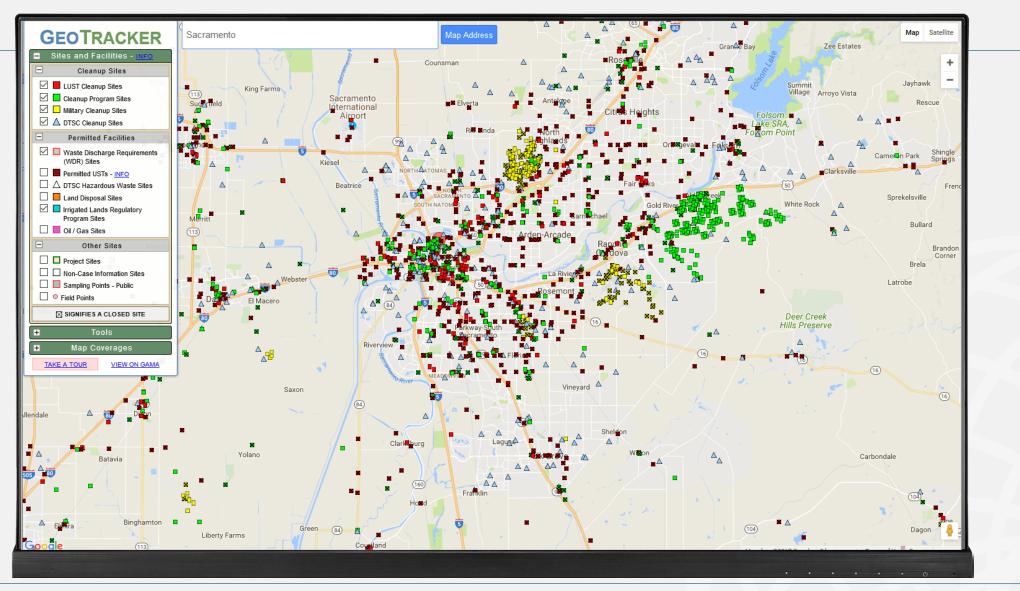


GSAs have access to a number of resources without further engagement

- Publicly accessible resources
 - Geotracker: <u>https://geotracker.waterboards.ca.gov/</u>
 - USGS Water Watch, California: <u>https://groundwaterwatch.usgs.gov/statemap.asp?sc=06&sa=CA</u>
 - Groundwater Information Center: <u>https://gis.water.ca.gov/app/gicima/</u>
 - Groundwater Basin Boundary Assessment Tool: <u>https://gis.water.ca.gov/app/bbat/</u>
 - CASGEM: <u>http://www.water.ca.gov/groundwater/casgem/online_system.cfm</u>
 - OSWCR: boring logs/well completion report: <u>http://www.water.ca.gov/oswcr/</u>
- GSA/Local Agency only resources
 - Basin Boundary Modification Request System: <u>http://sgma.water.ca.gov/basinmod/</u>
 - Local data (water levels, boring logs, localized models, aquifer characterization data etc)

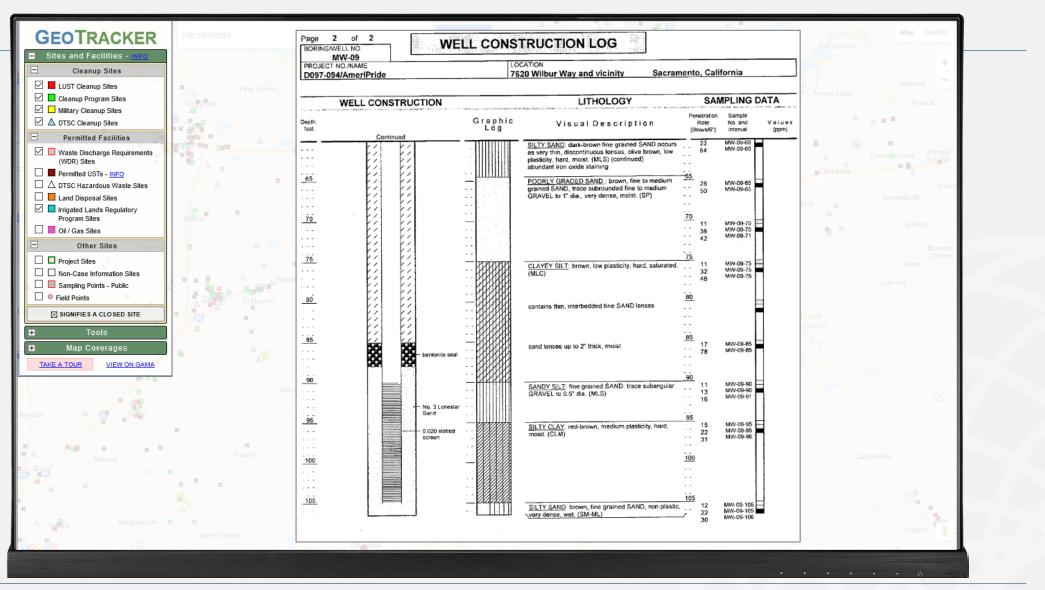


GeoTracker



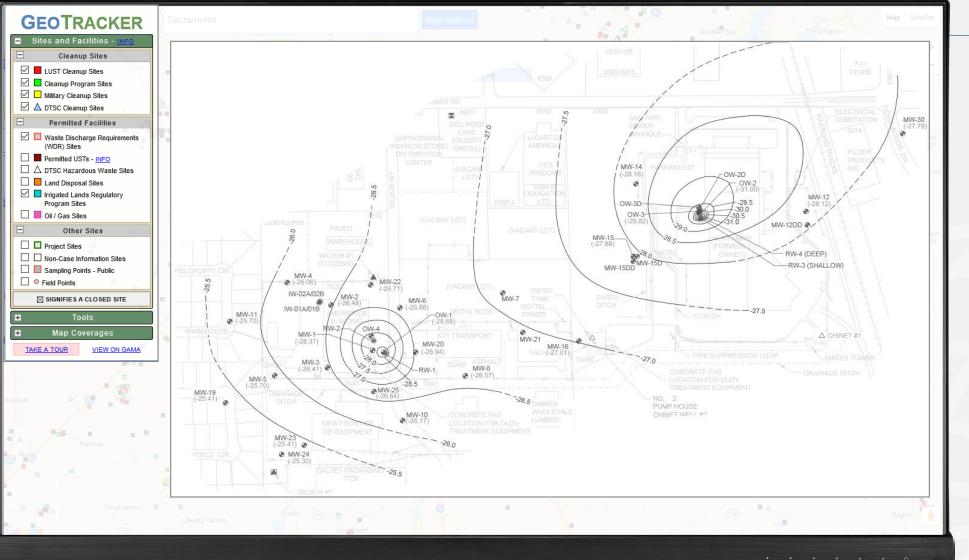
WOODARD &CURRAN

GeoTracker



GeoTracker

WOODARD & CURRAN





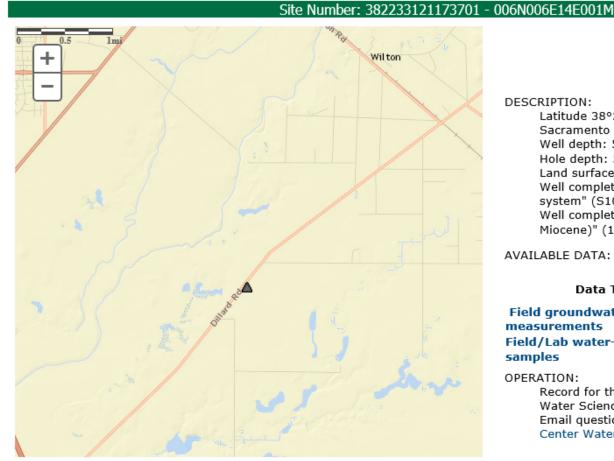
USGS – Groundwater Watch

Click site symbol to open information pop-up. Click Station ID in pop-up for county information and site selection. Map loading slowly? Try a different browser. Web browser performance varies significantly. Imagery with Imagerv Streets Labels Eldorado **USGS Well Information** Station: Woodland 382233121173701 A Name:006N006E14E001M Most Recent Measurement:84.94 Sacranento Measurement Date:8/7/2017 Davis Type:Periodic Measurement Elk G A Vacaville Napa Arnold Fairfield Strawberry Lod National Vallejo Antioch Concord Stockton Mt Diablo State Parl Oakland 214 HERE, DeLorme, USGS. Intermap, INCREMENT P. NRCan Explanation - Percentile classes (symbol color based on most recent measurement) Wells Springs O Real-Time Continuous >90 <10 10-24 25-75 76-90 Not Low High Δ Periodic Much Below Below Above Much Above Normal Ranked Measurements Norma Normal Norma Normal

California Active Water Level Network



USGS – Groundwater Watch



DESCRIPTION:

Latitude 38°22'33.5", Longitude 121°17'42.1" NAD83 Sacramento County, California, Hydrologic Unit 18040013 Well depth: 525 feet Hole depth: 525 feet Land surface altitude: 62feet above NAVD88. Well completed in "Central Valley aquifer system" (S100CNRLVL) national aquifer. Well completed in "Merten Formation (Pliocene-Miocene)" (121MRTN) local aquifer

AVAILABLE DATA:

Begin Data Type Date Field groundwater-level measurements 13 Field/Lab water-quality

End Date Count 1982-07- 2017-08-2

07

OPERATION:

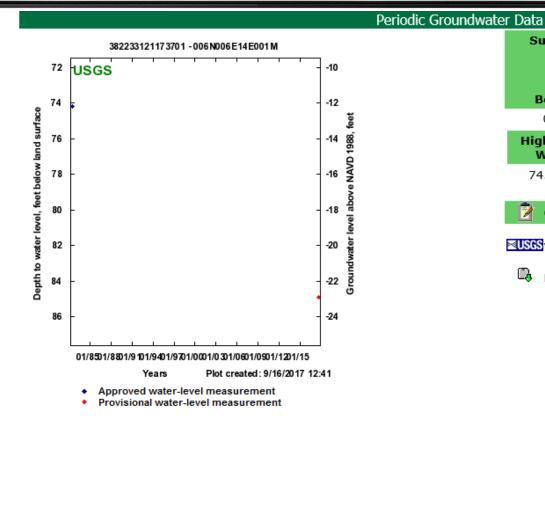
Record for this site is maintained by the USGS California Water Science Center

Email questions about this site toCalifornia Water Science Center Water-Data Inquiries





USGS – Groundwater Watch



Summa	ry for Period of Rec	ord Perio	dic Water Levels
Dep	th to water level, fe	eet below	land surface
	Approved Periodic V	Nater Lev	el Values
Begin [)ate End [Date	Number of Values
07/13/	/82 08/07	7/17	2
Highest WL	Date of Highest WL	Lowest WL	Date of Lowest WL
74.15	07/13/82	84.94	08/07/17

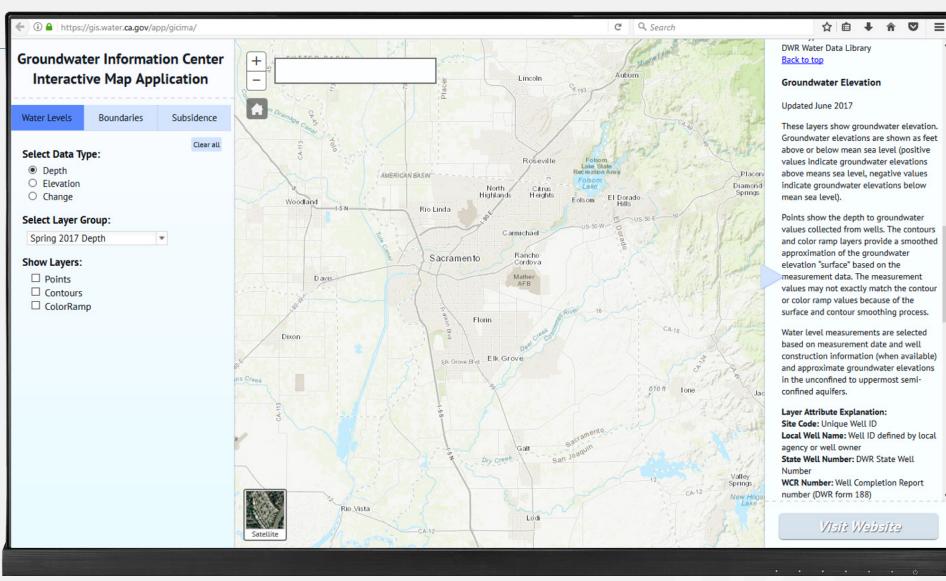
Groundwater Levels Options

SUSCE View latest data on NWISWeb

Download groundwater levels in text format

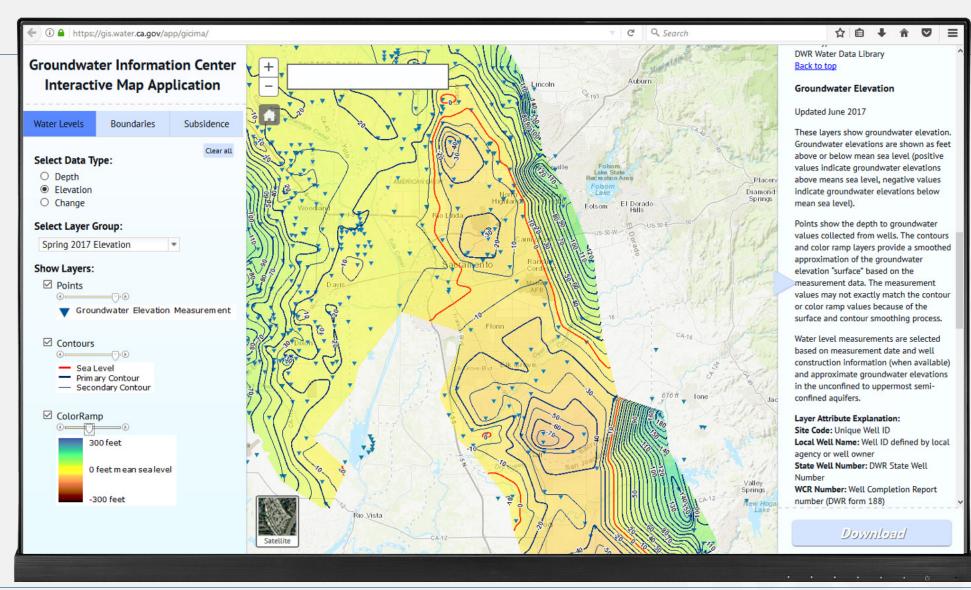
WOODARD &CURRAN

DWR - Groundwater Information Center



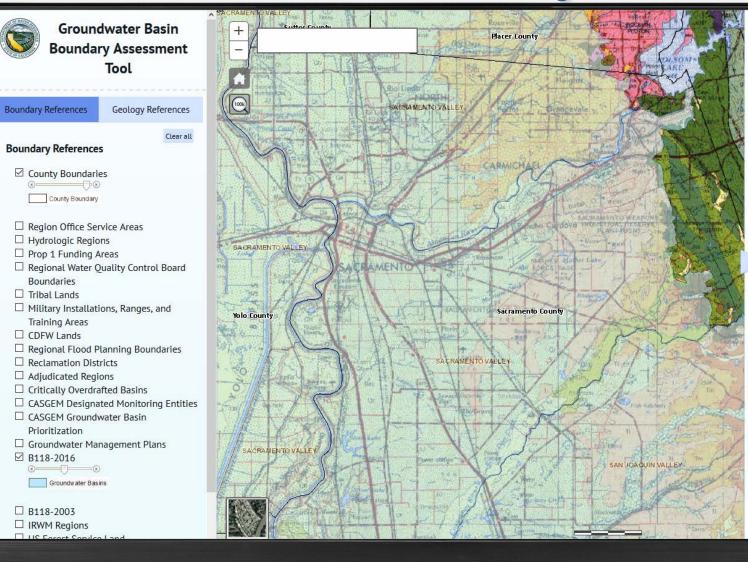


DWR - Groundwater Information Center



WOODARD &CURRAN

Groundwater Basin Boundary Assessment Tool



Boundary References

Click on features in the map or see below for more information:

DATA DISCLAIMER

All information provided by the Department of Water Resources on its Web pages and Internet sites, is made available to provide immediate access for the convenience of interested persons. While the Department believes the information to be reliable, human or mechanical error remains a possibility. Therefore, the Department does not guarantee the accuracy, completeness, timeliness, or correct sequencing of the information. Neither the Department of Water Resources nor any of the sources of the information shall be responsible for any errors or omissions, or for the use or results obtained from the use of this information.

Below are brief descriptions to the layers contained in the map:

County Boundaries This layer depicts the boundaries of California's Counties as developed by CAL FIRE.

Region Office Service Areas This layer depicts The coverage Area of DWR's Region Offices. <u>More Info...</u>

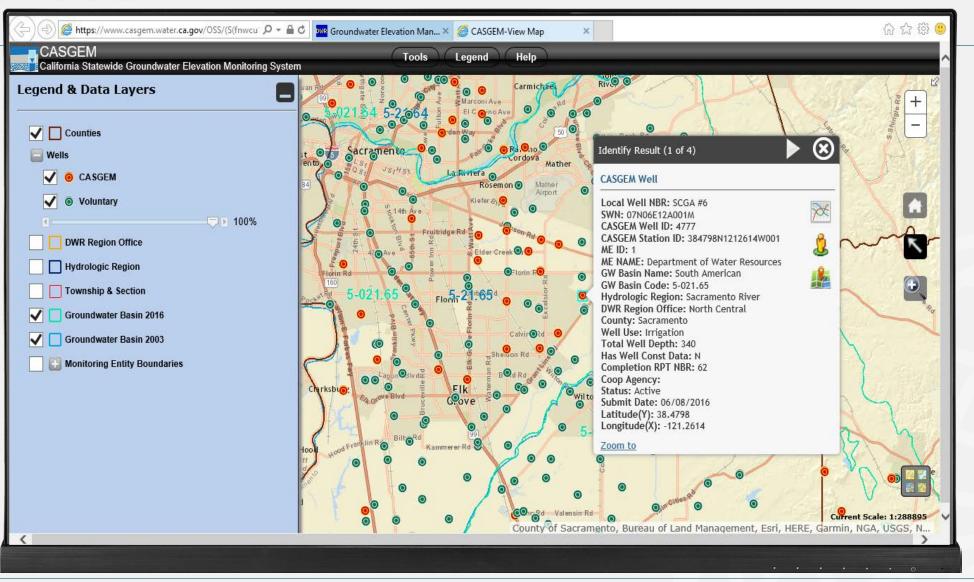
Hydrologic Regions This layer depicts the 10 areas representing the major California watersheds and is used by a variety of DWR programs including the CA Water Plan. <u>More Info...</u>

Prop 1 Funding Areas This layer depicts the 12 funding areas called out in Proposition 1. <u>More Info...</u>

Regional Water Quality Control Board Boundaries This layer depicts the



CASGEM





CASGEM





CASGEM Monitoring Well Details

STATE OF CALIFORNIA – THE NATURAL RESOURCES AGENCY EDMUND G. BROWN JR, Governor	Public: Well Details	
STATE OF CALIFORNIA – THE NATURAL RESOURCES AGENCY EDMUND G. BROWN JR, Governor DEPARTMENT OF WATER RESOURCES NORTH CENTRAL REGION SOUTH CENTRAL REGION SOUTH CENTRAL REGION SOUTH CENTRAL REGION 2001 HERN REGION 2003 HERN REGION 2001 HERN REGION 2001 HERN REGION REGION REGION REGION REGION REGION REGION	View Well Data Identification Local Well SCGA #6 Designation Is Local Designation the same as State Well #? No State Well Number 0 OTN06E12A001M Master Site Code 384798N1212614W001 CASGEM Well Id 4777 Data submittals for this well are under CASGEM Reference and Ground Surface Wethod	
Well/ Project Location:	RP Elevation 117.90 ft. Description None Provided Organization GS Elevation 117.40 ft. Method Unknown Accuracy Unknown	
APN: Year Drilled: Depth of Well: Casing Diameter: For a Radius Search: Search Radius: Ift Imi List of Township, Range, and Sections:	Distance from RP 0.50 Well Use Irrigation Well Status Active Primary Well Org Sacramento Central Groundwater Authorition 5-021.65 - South American / S	ity
Additional Information related to your search request (Maps, Coordinates, etc.): Requestor's Contact Information: Name (Please print): Company:	Well Construction Completion Type Single Well Total Depth 340 ft. Do you have well construction data? No Well completion report available? Yes Well Completion Report # 62	
Address:	Additional Information Written description of location of well Any additional comments	
FOR DWR USE ONLY TRS: Cost of Search: PQ_Check: Initials: Date:Time:PMT Received:		

Remediators: How can SGMA affect you?

SGMA establishes new powers of authority for GSAs

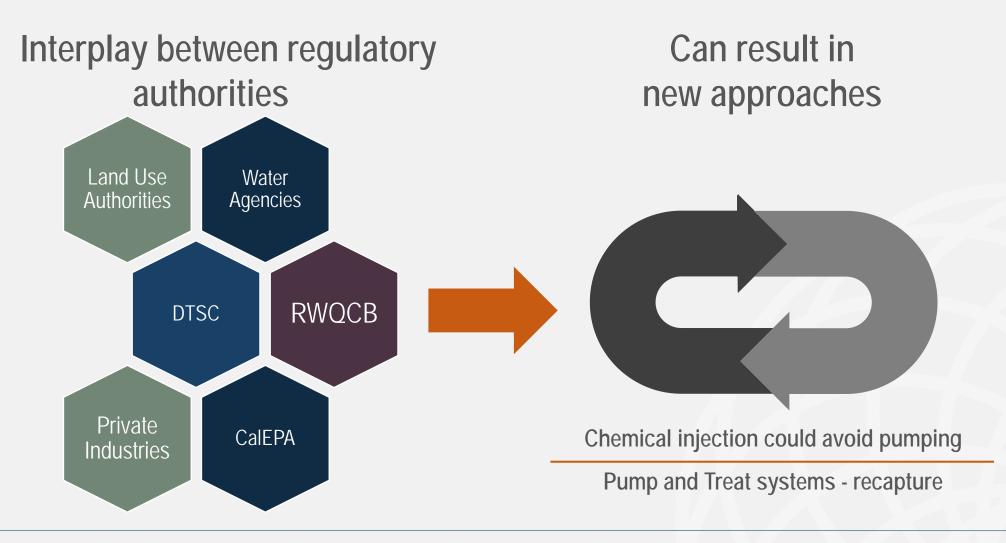
- Potential for new regulatory fees
 Translation: potential to assess new pumping fees
- Potential for new permitting systems that relate to a water accounting framework that is developed by the GSA

Translation: potential delays/additional permitting fees



Photo credit: Panhandle Groundwater Conservation District







Coordination with GSAs provide a direct link to Sustainability Programs

Values

Innovation

Community

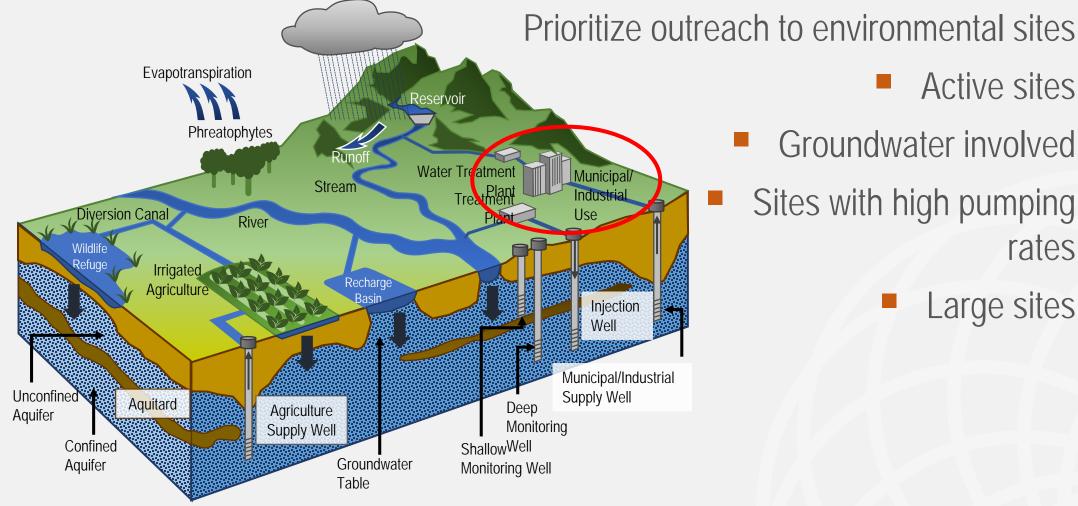


Inclusivity

Stewardship

Transparency

Engagement: Define Targets



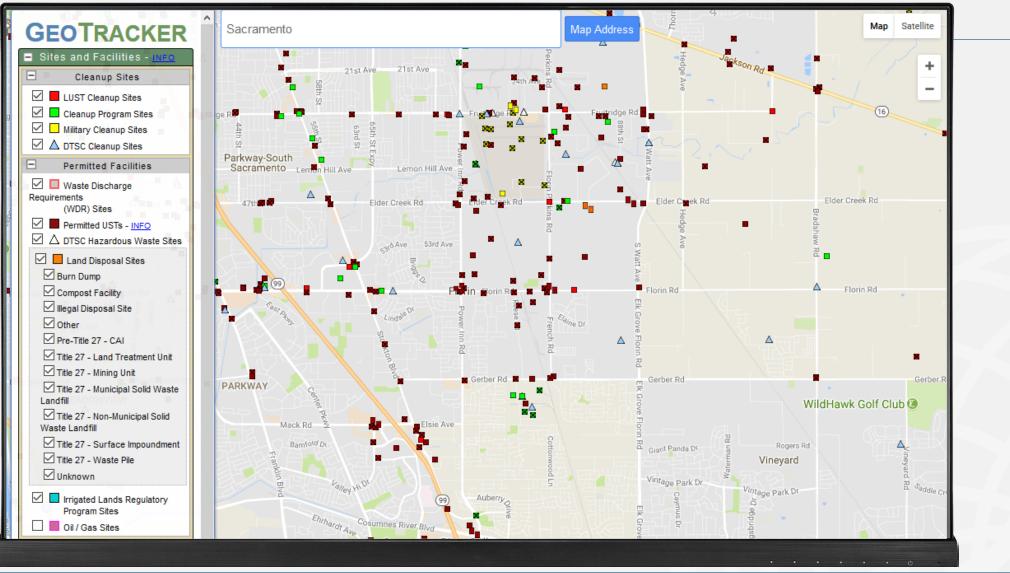
Active sites

Groundwater involved

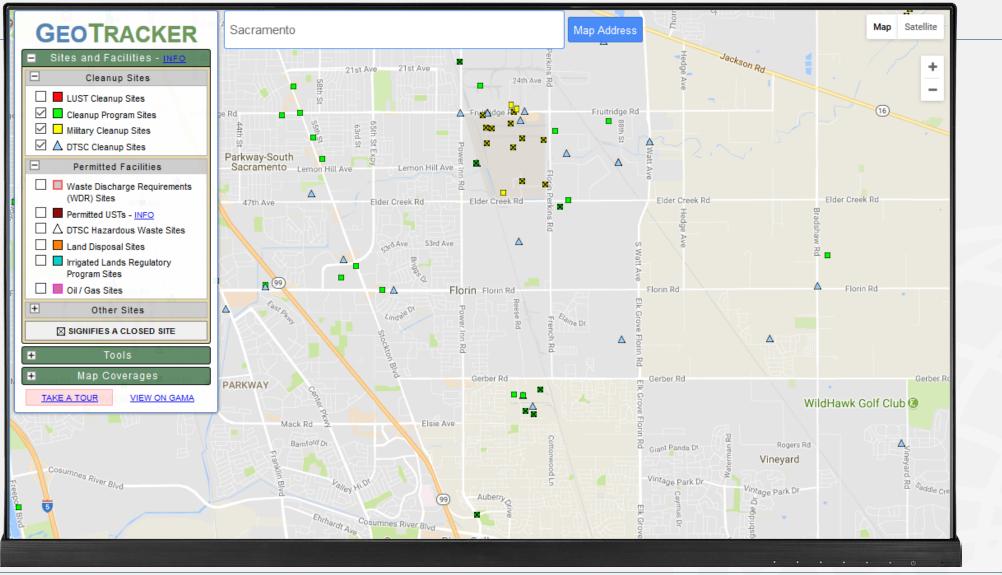
Sites with high pumping rates

Large sites

Prioritization of Sites to Streamline Outreach

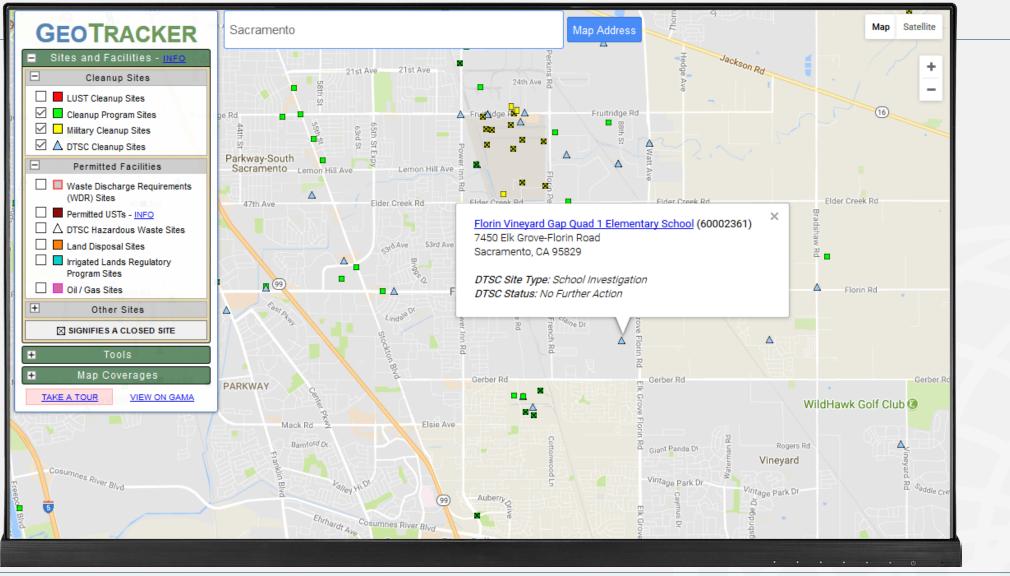


Prioritization of Sites to Streamline Outreach



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Prioritization of Sites to Streamline Outreach



WOODARD &CURRAN



How to reach out DTSC, CalEPA/RWQCB/CDPH/USEPA learn about sites

Who to reach out to

Environmental manager for site

Important to do these presentations through other forums! "Hey did you know about SGMA? You should be paying attention."