



AGENDA

DATE	Wednesday, June 7 th , 2023; 1:00 PM – 3:00 PM (PST)
LOCATION	Click here to join the meeting
STAKEHOLDER ADVISORY GROUP LIST	Kyle Ericson, P.E., (El Dorado Water Agency); Robert Lauritzen, (El Dorado County -EMD); Russ Wigart (EDC DOT); Jason Burke (City of South Lake Tahoe); Scott Carroll (CA Tahoe Conservancy); Andrea Buxton (Tahoe Resource Conservation District); Brian Grey, P.G. (Lahontan Regional Water Quality Control Board); Jacob Stock (TRPA); Nicole Bringolf (USFS – LTBMU); Nakia Foskett (Lakeside Park Water Co.); Jennifer Lukins (Lukins Brothers Water Co and Tahoe Keys Water Co.); Harold Singer (Community Rate Payer); and John Thiel, PE (South Tahoe PUD)
PLAN MANAGER	Mark Seelos, (South Tahoe PUD)

BASIN MANAGEMENT OBJECTIVES (BMO)

1. Maintain a sustainable long-term groundwater supply.
2. Maintain and protect groundwater quality.
3. Strengthen collaborative relationships with local water purveyors, governmental agencies, businesses, private property owners and the public.
4. Integrate groundwater quality protection into local land use planning activities.
5. Assess the interaction of water supply activities with environmental conditions.
6. Convene an on-going Stakeholders Advisory Group (SAG) as a forum for future groundwater issues.
7. Conduct technical studies to assess future groundwater needs and issues.
8. Identify and obtain funding for groundwater projects.

WORKSHOP OBJECTIVES

OBJECTIVES

1. Learn about key findings from the WY2022 Annual Report
2. Learn about recent findings from the South “Y” Regional Plume Characterization and the status of future work.
3. Provide an overview of WY2023 precipitation accumulation
4. Review Projects and Management Actions including future funding priorities

SEE REVERSE FOR AGENDA



AGENDA

Time	Description	
1:00	Introductions and Purpose of SAG Meeting (15-Minutes)	SAG
<hr/>		
1:15	Annual Report Summary <ul style="list-style-type: none"> • GW Conditions • Water Quality (non-PCE) 	S. Itagaki Kennedy Jenks
<hr/>		
1:35	Water Quality: South "Y" PCE Plume <ul style="list-style-type: none"> • 2023 Activities • LRWQCB CAOs • Q & A 	B. Grey, P.G. LRWQCB
<hr/>		
1:55	WY 2023 Precipitation Accumulation to Date	S. Itagaki Kennedy Jenks
<hr/>		
Projects and Management Actions		
2:05	<ul style="list-style-type: none"> • SGM Grant Program Round 2 Proposal Submitted Dec 2022 <ul style="list-style-type: none"> ○ Not recommended for Funding (May 2023) • Priority Projects • Other Potential Funding • Discussion 	S. Itagaki Kennedy Jenks
<hr/>		
2:35	TVS Subbasin (6-005.01) - Open Forum (10-Minutes) Topics outside the subject matter of the SAG and not listed on the Agenda.	Round Robin
<hr/>		
3:00	Adjourn	
<hr/>		



Summary

Attendees

NAME	AGENCY
Julie Ryan	STPUD - Eng Dept Mgr
Mark Seelos	STPUD - Water Resources Mgr
Scott Carroll	CTC
Sachi Itagaki	Kennedy Jenks
Stephen Caswell	STPUD - Princ. Eng
Jennifer Lukins	LBWC/TKWC
Harold Singer	Public
Brian Grey	Lahontan Water Board
Jeff Brooks	Lahontan Water Board
Rachelle Thompson	Kennedy Jenks (Online)
Sutanya Singivipulya	Kennedy Jenks (Online)
Jacob Stock	TRPA (Online)
Gary Kvistad	(Online)
Susie Rybarski	DRI (Online)
Kyle Ericson	EDWA (Online)

Annual Report Summary

General

- Groundwater Sustainability Agency (GSA): El Dorado co-administrator in GSA, South Tahoe PUD is lead GSA for the TVS Subbasin
- Mountain Block vs. DWR designated Zone 10 subbasin
- WY2022 report for last water year: October 1, 2021-September 30, 2022
- Hagan’s Meadow station about 7000ft elevation
- WY2022 was a normal year for precipitation

Water Levels

- Seasonal ups and downs of monitoring wells- not particularly dependent on the water year
- Measured water levels are generally stable over a range of hydrologic conditions
- Pumping: gradual decline since 2005 from water conservation measures
- Well below calculated sustainable yield 13,200AFY
- Average pumping about 7000AFY

Groundwater use and storage

- Modeled storage has increased with normal precipitation variation- net positive cumulative change since 2005
- No major concerns with overdrafting etc.

General Water Quality:



- Arsenic-
 - 5 wells above MCL
 - 3 District or TKWC wells; some have treatment and some switched to standby
 - Naturally occurring inorganic constituent
- Naturally occurring radionuclides
 - Total soluble uranium/gross alpha activity- relatively new problem
 - TKWC2 and TKWC3 >MCL for uranium, treatment went online in 2022
 - 12 wells have detectable gross alpha
- Question from Kyle Ericson, El Dorado County- is gross alpha MCL primary or secondary?
 - Primary, 15 pCi/L

Water Quality: South “Y” PCE Plume

See presentation by Brian Grey, Lahontan RWQCB- for summary of SCAP activities

- New monitoring results from April 2023
- Data gap in eastern plume
- Prioritizing potential sources based on results in shallow (top 25ft)
- Proposed CAOs June 2022
 - Lake Tahoe Laundry Works
 - Former Norma’s Cleaners
 - Big O Tires
- Still drafting responses to comments requiring multiple teams within LRWQCB- advisory team & prosecution team
- Want to issues all 3 CAOs at one time
- Plan to evaluate data gaps/evaluating regional contribution – then require site-specific remediation
- Question from Kyle Ericson, El Dorado County: We have spent many years investigating the contamination, do CAOs have timeline when mitigation will begin not just monitoring?
 - B. Grey.- hope to include wellhead treatment/replacement water plans as requirements
- Question from Mark Seelos, South Tahoe PUD- Can the waterboard ask for cleanup beyond site boundaries?
 - B. Grey- Theoretically when there is an unauthorized release, can require remediation of the entire extent of discharge
 - RWQCB doesn’t apportion percentages- responsible for entirety of contamination; individual parties can negotiate amongst themselves for allocation
- General discussion about whether past remediation costs can be recovered by water districts if they sue separately from the state

WY 2023 Precipitation Accumulation

- WY2022 report is posted on district website
- WY2023- now into very wet category, will continue to tick up into the future



Projects and Management Actions

- Projects- heart of Alternative Plan
- Periodic review of basin conditions every 5 years- DWR working on guidelines (different deliverable than annual report)
- AWSDA linked to urban water management plan
- Scopes and budgets for proposed actions- Ivo Bergsohn, previous water resources manager had thought it was valuable even if SGMA funding didn't come through; unfortunately grant application from Dec 2022 was not recommended for funding
- Comments on draft DWR grant funding recommendation close Friday at 5 PM- does the SAG want to submit any comments? No comments recommended
- DWR received way more applications than available funding (\$187M vs \$780M)
 - South Tahoe PUD request was \$2.75M
- Interconnected surface water ISW, GDEs vs Stream environment zones (SEZ)
 - Currently most of the meadows are flooded- less relevant now than in drought situations
- 8 tasks including grant management
 - GW/surface model- current model is GW only; design of GDE monitoring program
 - Surface water quality monitoring- stormwater; PFAS and other analytes
 - Sentinel wells- April was last round of funded sampling; 3 more years + dedicated sampling equipment
 - GAC changeouts for 3 years LBWC#5
 - Private well survey- build on past efforts, 200-300 still outstanding have not wanted to participate
 - Other funding options?
- Prioritization of projects?

Comments:

Julie Ryan, South Tahoe PUD: budgets set aside for administrative GW sustainability projects (reporting etc.)

SAG: Strong local interest in GDE

Scott Carroll, California Tahoe Conservancy (CTC) Backup plan for GDEs – funding related to climate change through CTC, others?

CTC has information (including locations) on 70 groundwater wells in the upper Truckee River marsh, some with data loggers

CTC also has done work in Trout Creek

Data collection- some historic, some active projects could be mined and aggregated

Mark Seelos, South Tahoe PUD: Benefit of focusing on GDEs- don't currently have a sustainability indicator for that BMO in the last Alternative Plan update; if we had more data we could create a specific indicator

Susie Rybarski, Desert Research Institute: discussed shallow groundwater modeling

- Recharge rates in model we use now are controlled by a separate model (currently 5; 6 is out now, want to update with newest climate information)



- New measurements would also help calibrate the model
- Possibly other wells e.g. CTC could be incorporated into the model

Mark Seelos, South Tahoe PUD, question about base flow assumptions- local groundwater levels vs. mountain block recharge

Response by Susie Rybarski:

- Gages going up into the mountain block
- Model simulates the streams in the mountain block as well
- Flow measurements are a component of the model

General discussion re GDE:

- What could we use as a sustainability indicator? GW levels in basin? Anything else that could be measured elsewhere?
- Would you actually be able to discern a difference based on pumping in shallow groundwater?
- Idea to look at cones of depression of pumping wells and if they intersect with GDEs

Other discussion re Projects and Management Actions

- Tucker avenue investigation has been identified as part of CAOs so could be addressed by RWQCB
- Could wellhead treatment be added to CAOs?
- Sentinel well monitoring- currently no more funding
- Semi-annually, currently October and April
- Lake Tahoe Laundry works workplan includes sentry well monitoring
- Future SCAP applications? Disadvantaged communities being heavily weighted
- Lukins- not eligible for SRF or FEMA, possibly could pursue other funding
- RWQCB evaluation of whether they have found all responsible parties
- PFAS- what sampling has been done in the basin? Need more information
- Kyle Ericson, El Dorado County- wants a ranked list for his board of the opportunities that didn't get funded, possible opportunities
- Julie Ryan, South Tahoe PUD- different public outreach opportunities may have different priorities (split up \$1M bucket)
 - Annual GW reports covered by South Tahoe PUD
 - Portal- website updates for South Tahoe PUD; maybe less of a priority?
- Private wells could also be helpful for information/consolidation requests
- Lukins priorities:
 - GDE#1, Sentinel Well #2, Surface water quality #3
- Other projects could be rolled into other efforts?
- Private well survey could be higher priority
- Action item from Julie Ryan, South Tahoe PUD: create survey for SAG to produce a recommendations + comments matrix
- GDE funding- this year? appropriate contact? CTC?

Open Forum



- Look into possibility of US Army Corps of Engineers funding- possibly stream restoration related to infrastructure funding
- CTC- meets 4-5 times per year and could be a source of GDE funding
- What is the definition of SEZ vs GDE vs jurisdictional wetland?

Future SAG topics

- Private wells- Karen Bender Environmental Health
- Funding opportunities for coming into the public water system
- Julie Ryan, South Tahoe PUD- now that Mark Seelos, South Tahoe PUD water resources manager/grants manager hired/in progress South Tahoe PUD will re-engage about outreach
- GSA Process for new wells
 - Sensitivity: don't want perception of "grabbing" wells, GSA role vs. District role
 - Executive Order- new wells larger than 2 AFY needs to be approved by GSA
 - Mark Seelos, South Tahoe PUD: develop criteria for evaluation/approval for future requests for new wells within the TVS Subbasin
 - Tahoe Valley Lodge inquiry March 2022 (replacement well, no flow meter, potential concerns)
 - El Dorado water agency- board is mix of supervisors and other water agency members
 - Special district, not exactly part of El Dorado County
 - GSA Approval process for wells- Boards of both agencies approve with resolution
 - Co-administrators with Tahoe as lead independent of where the propose well is located
 - Well permit requests come to El Dorado County first
- Regulatory updates- PFAS regulation
- RWQCB updates

2:38 PM adjourn