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NOTICE REGARDING (COVID-19)

Before we begin, the record will reflect that pursuant to the provisions of Executive Order N-29-20 issued by Governor Gavin Newsom on March 19, 2020, this meeting will be conducted by teleconference only.



Call to Order

Board of Directors Workshop- Resources
Thursday, July 1, 2021

Chairperson – Director Hayes
Vice-Chair – Director Harrison

Introductions

Following the introduction of Directors and District staff, participants may use this time to state their name and agency/affiliation in order to be included in the formal record of attendees.

Public Comment

Any person may address the Board on matters within its jurisdiction.

- *Please use the chat feature on the Zoom toolbar or digitally raise your hand to let the moderator know you would like to make a comment.*



Summary of Previous Meeting (Pg. 3)

Board of Directors Workshop – Resources – June 3, 2021

Discussion Item 4.1 (Pg. 10)

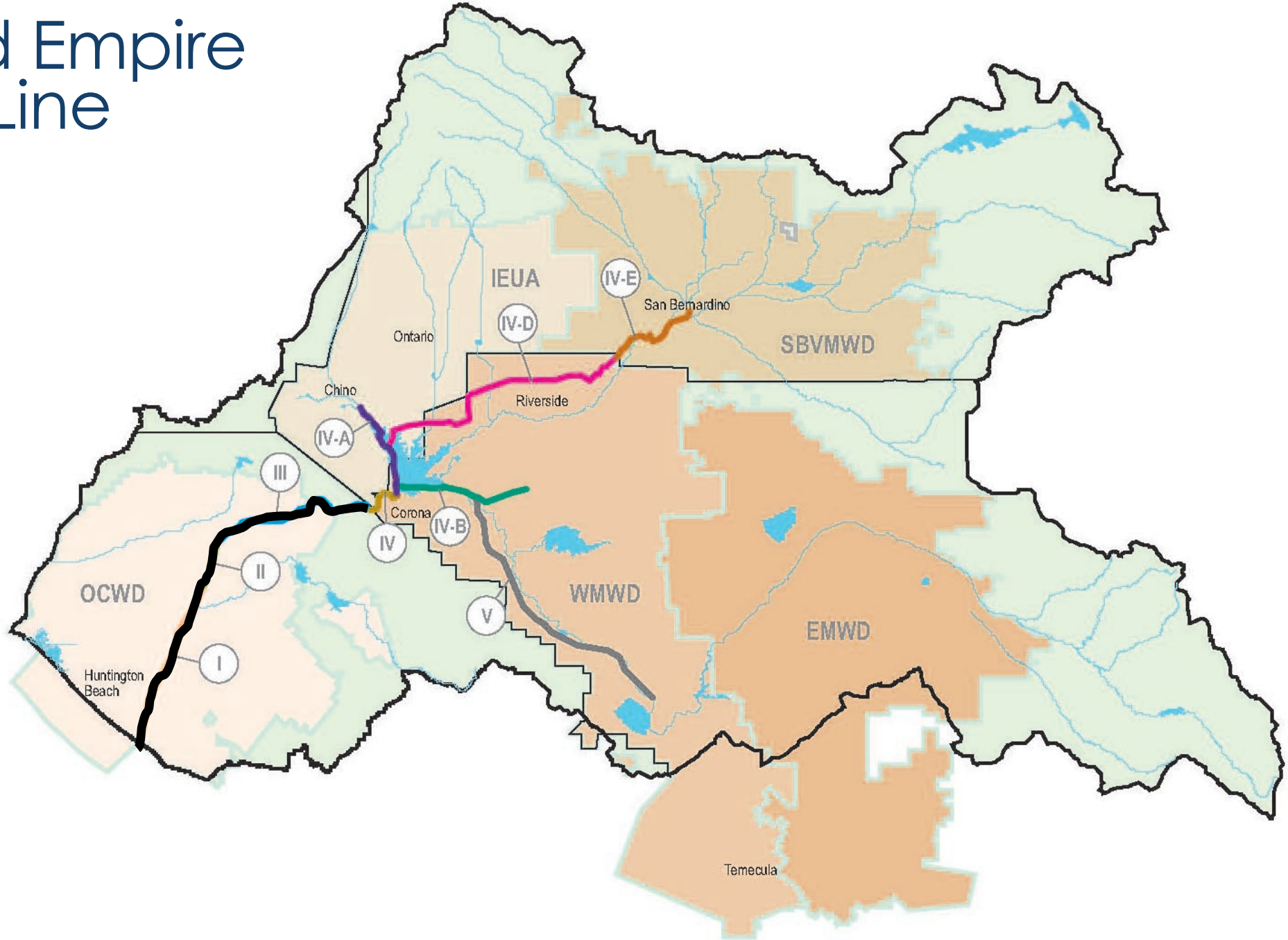
Bob Tincher, PE, MS – Chief Water Resources Officer/Deputy GM

Consider Inland Empire Brine Line Capacity Utilization Program

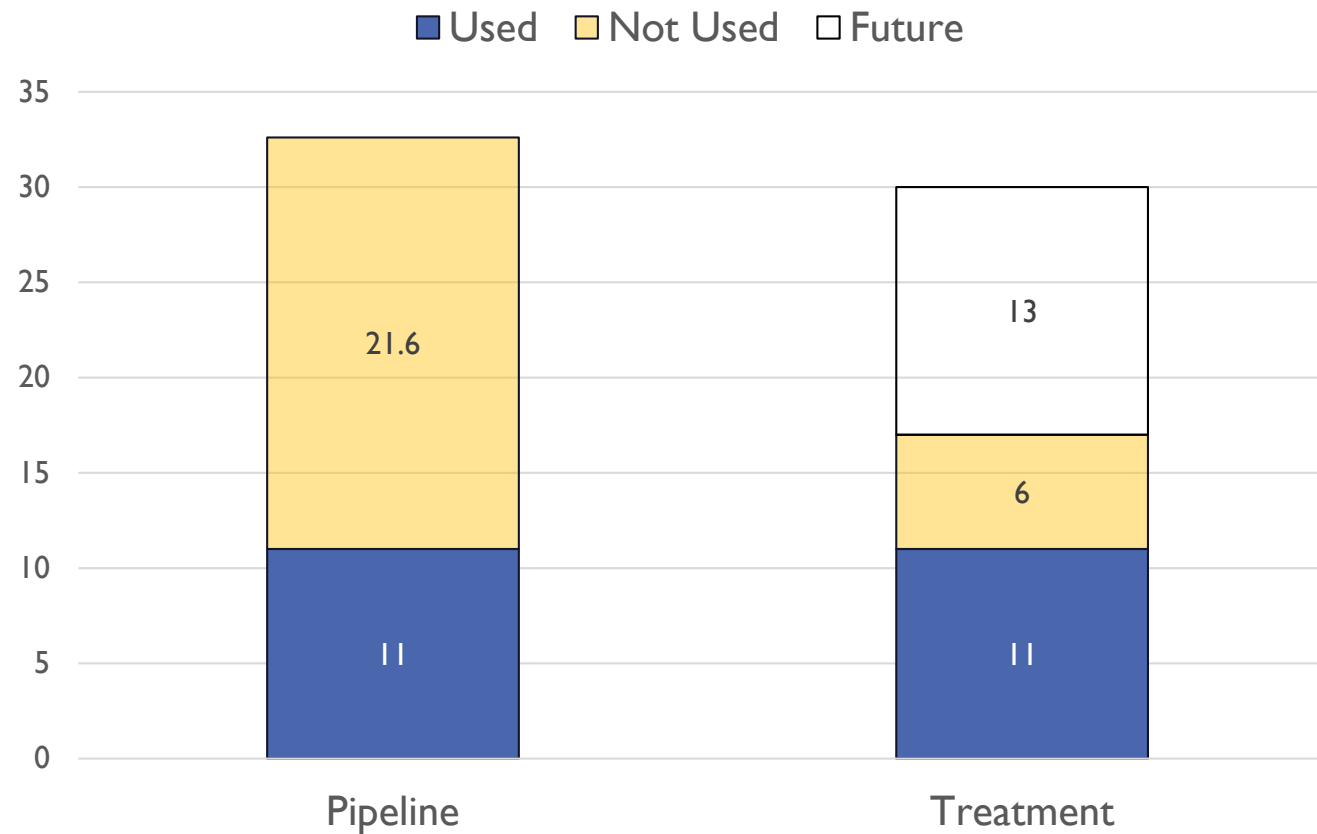
Staff Recommendation

Authorize staff to place this item on an upcoming Board of Directors Agenda for consideration

Inland Empire Brine Line



Brine Line Utilization



Director Comments and Discussion



Paul Kielhold
President



June Hayes
Vice President



**T. Milford
Harrison**
Treasurer



Gil J. Botello
Director



Susan Longville
Director

Staff Recommendation

Authorize staff to place this item on an upcoming Board of Directors Agenda for consideration

Discussion Item 4.2 (Pg. 20)

Matthew Howard, MS – Water Resources Senior Planner

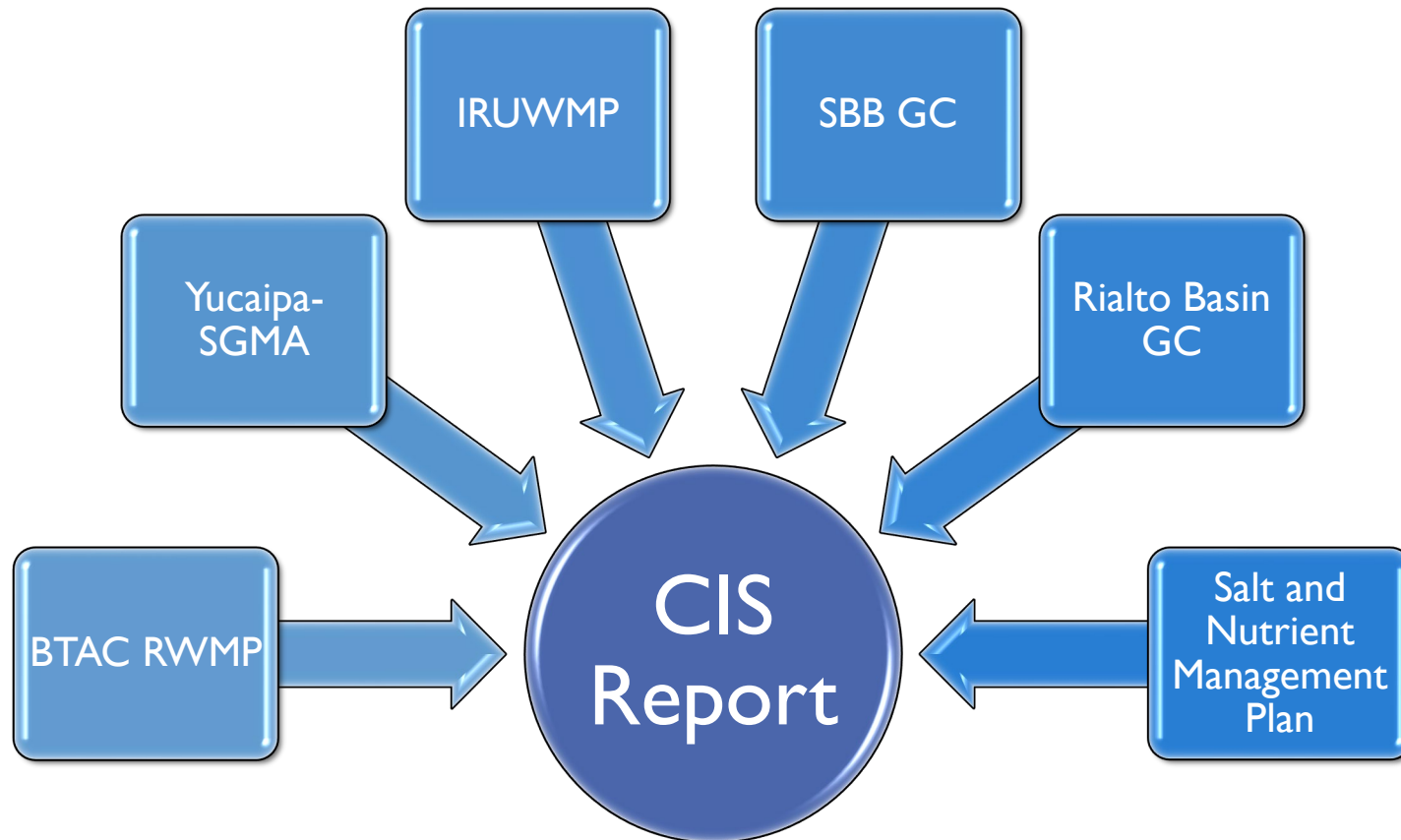
Dan Borell, GISP – Manager of Geospatial Services

Presentation of the Results from 2020 Change in Groundwater Storage Calculation

Staff Recommendation

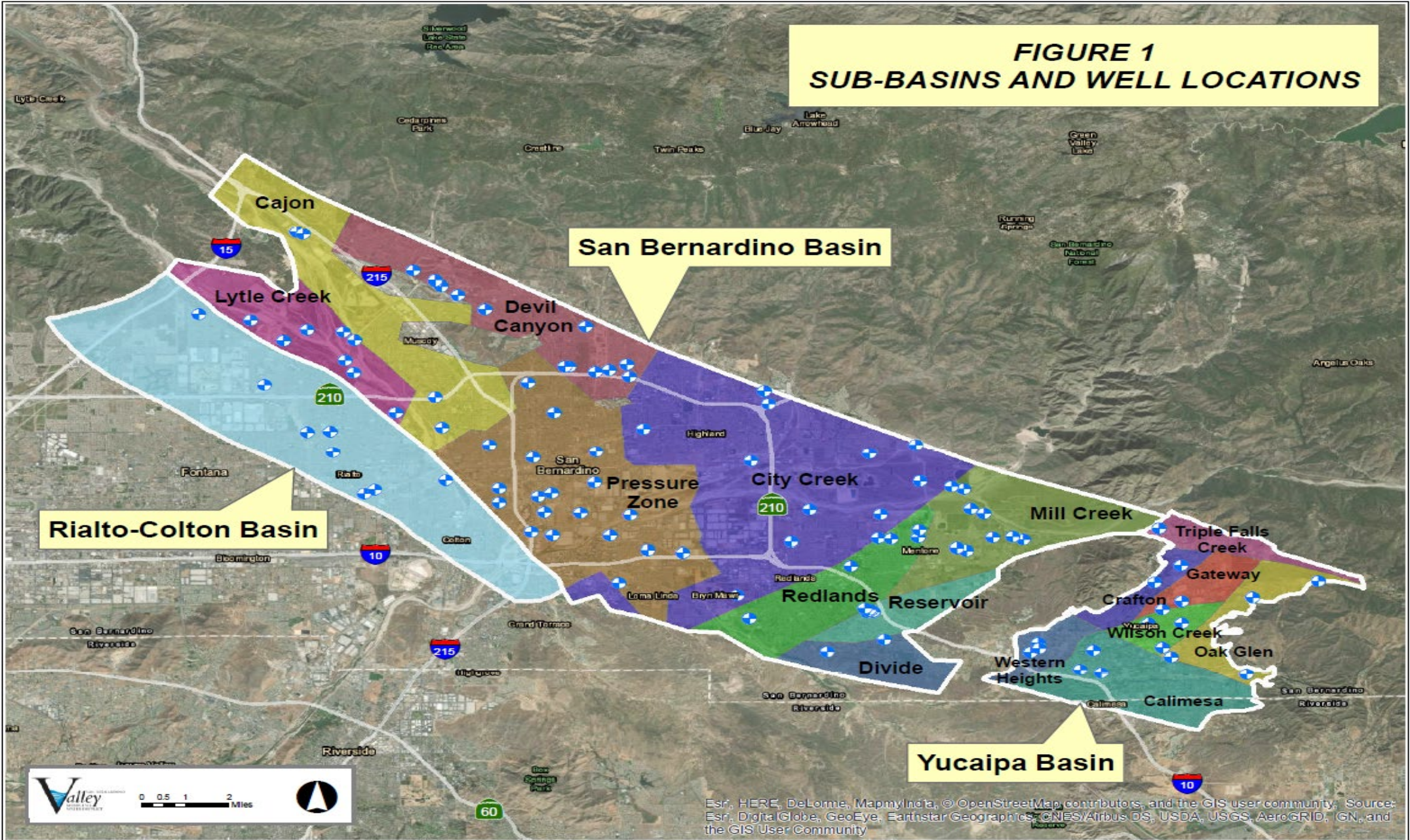
Receive and file.

Our Basins Indicator/Gauge



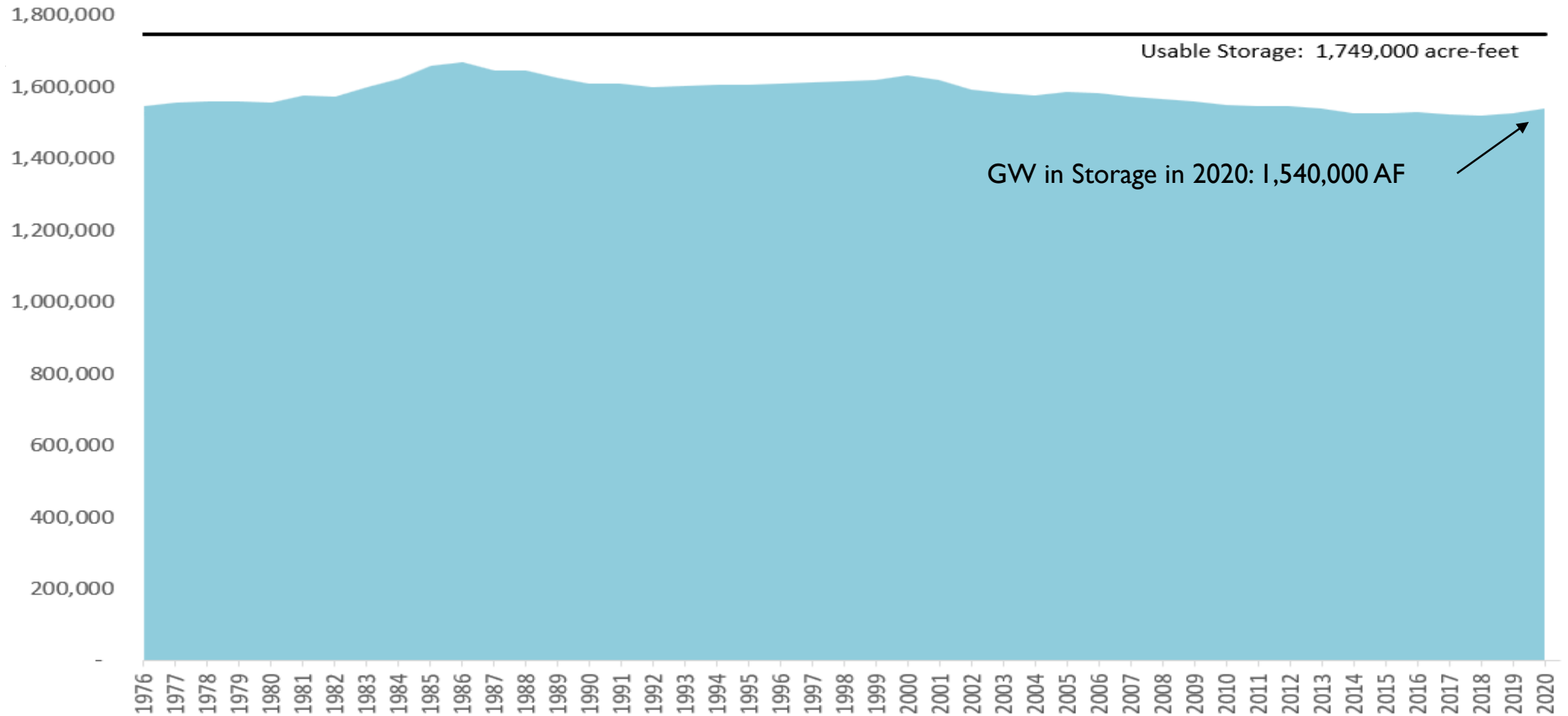
**FIGURE 1
SUB-BASINS AND WELL LOCATIONS**

BERNARDINO
CT

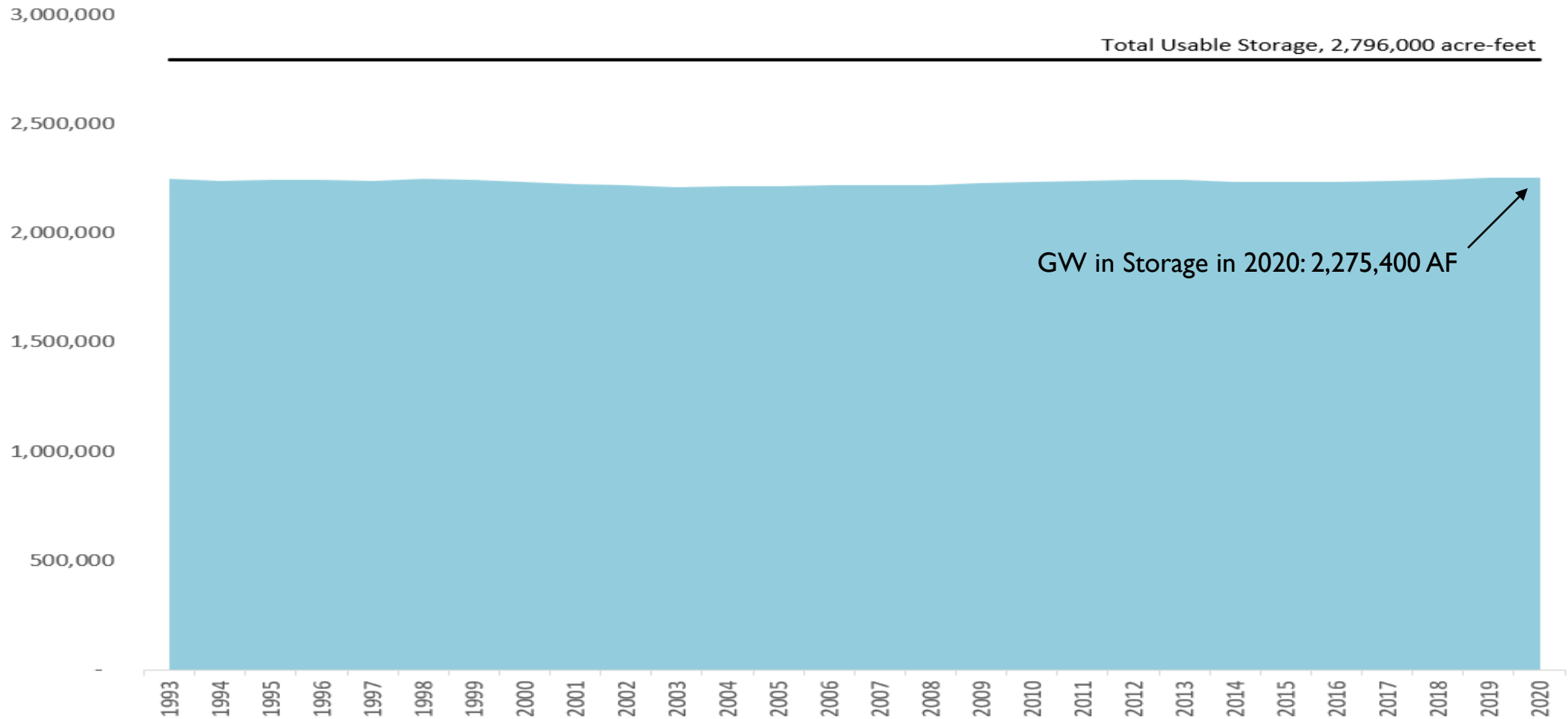


Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community. Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

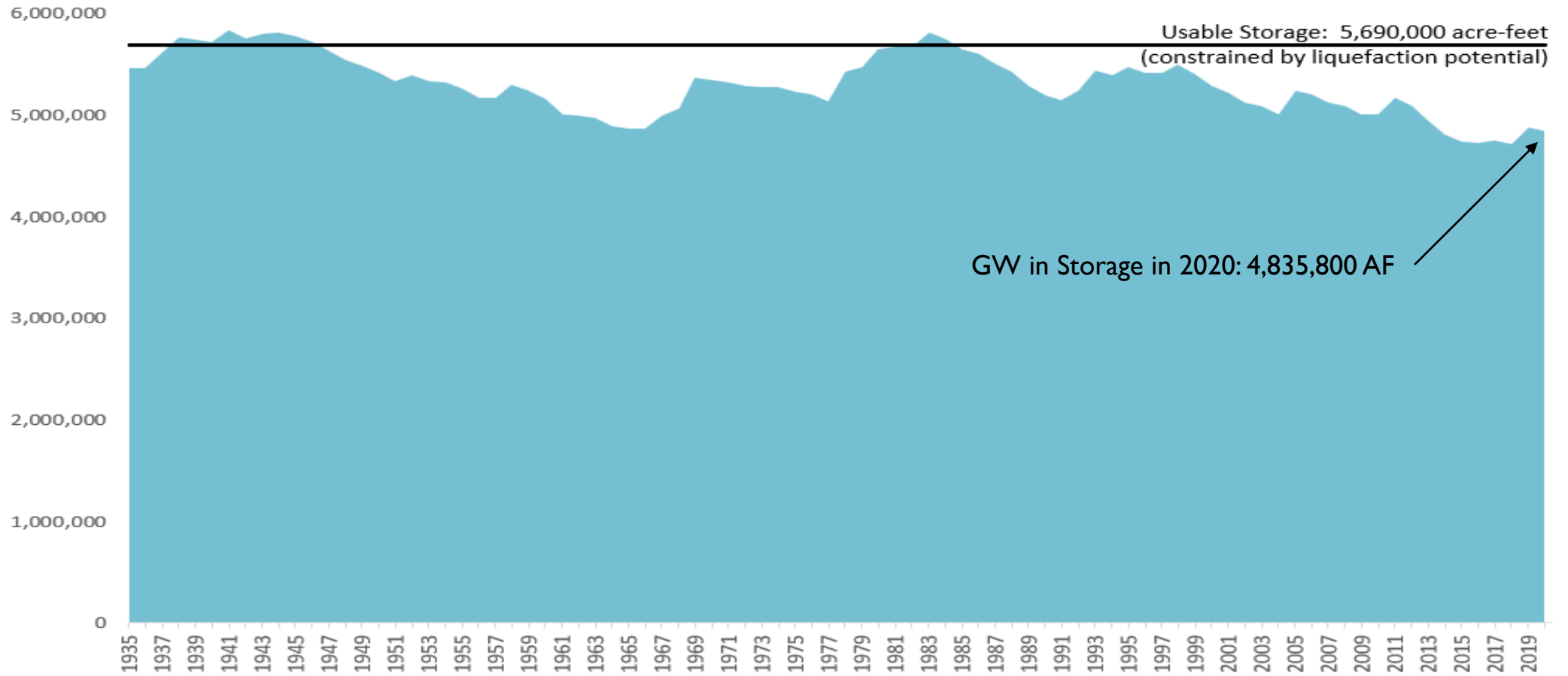
Rialto-Colton Basin Change in Storage Results (acre-feet)



Yucaipa Basin Change in Storage Results (acre-feet)



San Bernardino Basin Change in Storage Results (acre-feet)



2020 Change in Storage Results

The slight decrease in the SBB (0.6%) and Yucaipa Basin (0.1%) were expected given the below average precipitation and reduced SWP supplies available. The slight increase in the Rialto-Colton Basin (0.7%) is consistent with the Rialto Decree three index wells having higher and stable water levels for 2019 and 2020.

Basin	Change in Storage (acre-feet)	Total Usable Storage (acre-feet)	Percent Full
Rialto-Colton	+11,908	1,749,000	86%
San Bernardino Basin (SBB)	-32,540	5,690,000	82%
Yucaipa	-3,005	2,796,000	81%

2021 Prediction for SBB

The Change In Storage analysis includes a prediction that utilizes current precipitation levels and projected imported water supplies to predict the change in storage for the SBB.

	SBB Prediction			SBB Calculated
Year	Local Supplies	Imported Water Supplies (SWP)	Total	CIS Calculation
2020	-17,000	21,000	4,000	-32,540
2021	-93,000	18,000	-75,000	(calculated in fall 2021)

Director Comments and Discussion



Paul Kielhold
President



June Hayes
Vice President



**T. Milford
Harrison**
Treasurer



Gil J. Botello
Director



Susan Longville
Director

Staff Recommendation

Receive and file

Discussion Item 4.3 (Pg. 42)

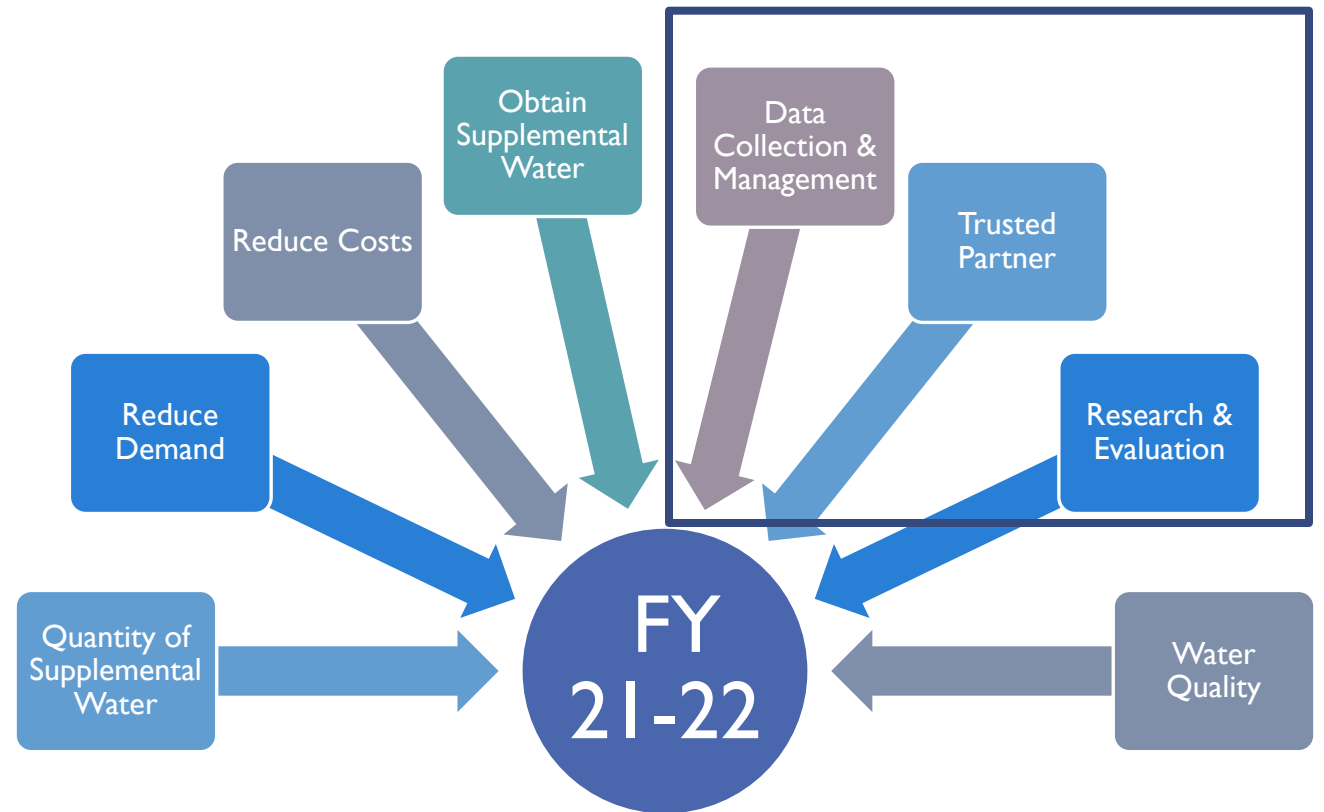
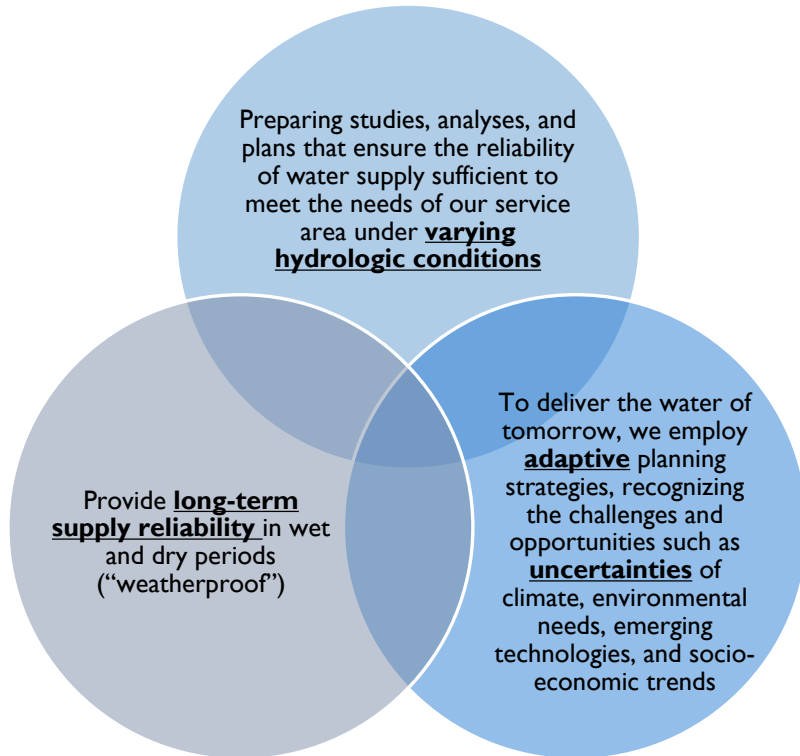
Adekunle Ojo, MPA – Manager of Water Resources

Consider Cooperative Study Program with United States Geological Survey

Staff Recommendation

Authorize staff to forward this item to a future Board of Directors regular meeting for consideration.

Water Resources Department Mission and FY 21-22 Program



USGS Science Support for the San Bernardino Area, California

Wesley R. Danskin

Research Hydrologist

United States Geological Survey

Ayman Alzraiee

John Engott

Derek Ryter

Larry Brown*

Claudia Faunt

Zach Stanko

Geoff Cromwell

Brock Huntsman

Linda Woolfenden

Wes Danskin

Greg Mendez

Scott Wright

USGS Program — Data and Interpretations

Data

- Surface water
- Ground water

Interpretations

- 1 – Bunker Hill and Lytle Creek Basins
- 2 – Yucaipa Basin
- 3 – Rialto–Colton Basin
- 4 – Santa Ana River
- 5 – Fish study
- 6 – Upper Santa Ana River Integrated Model

Data — Surface water



Data — Groundwater



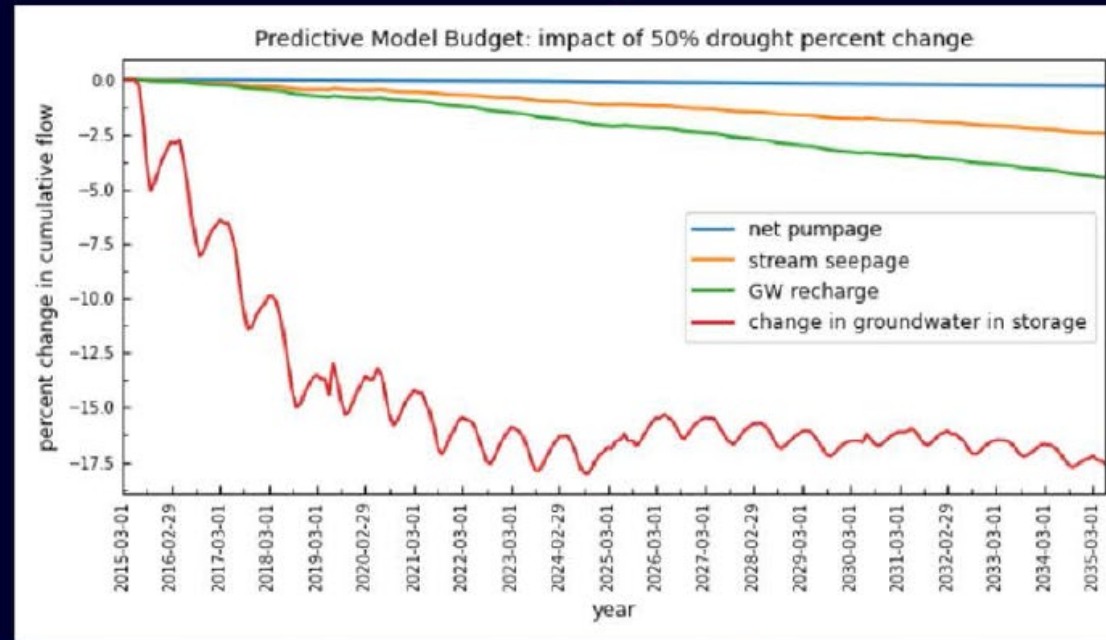
1 – Bunker Hill and Lytle Creek Basins

- a. Provide technical outreach
- b. Rehabilitate USGS monitoring-well sites
- c. Followup on prior rehabilitation of USGS well sites



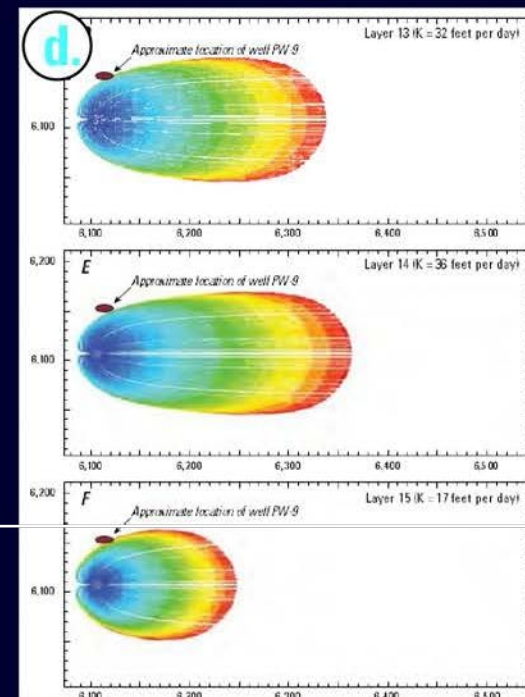
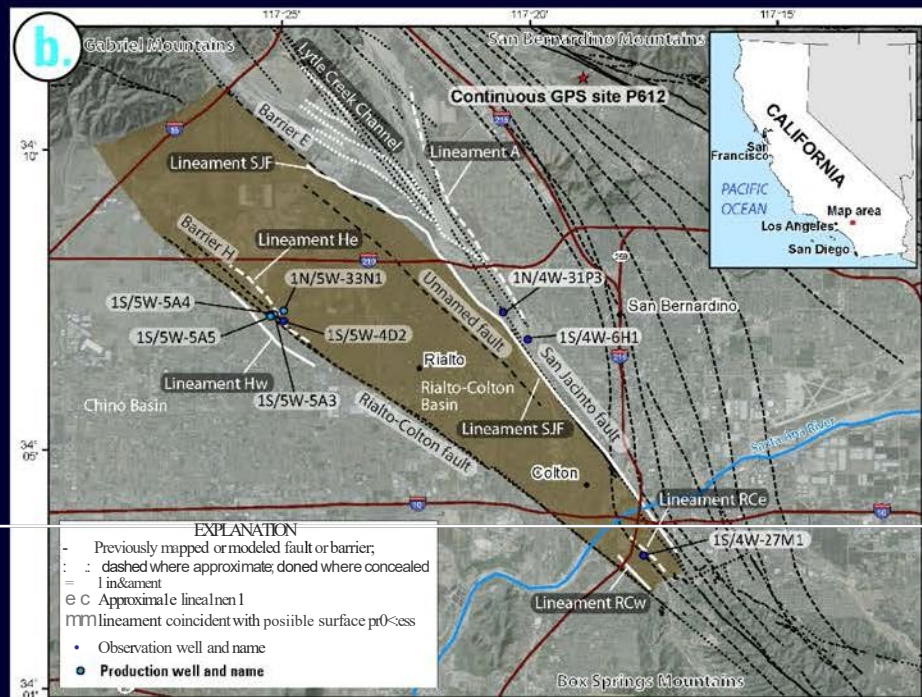
2 – Yucaipa Basin

- a. Provide technical outreach
- b. Integrate hydrologic model scenarios and uncertainty analysis
- c. Distribute nitrate report for review
- d. Analyze groundwater age and stable isotopes
- e. Install climate station and monitoring



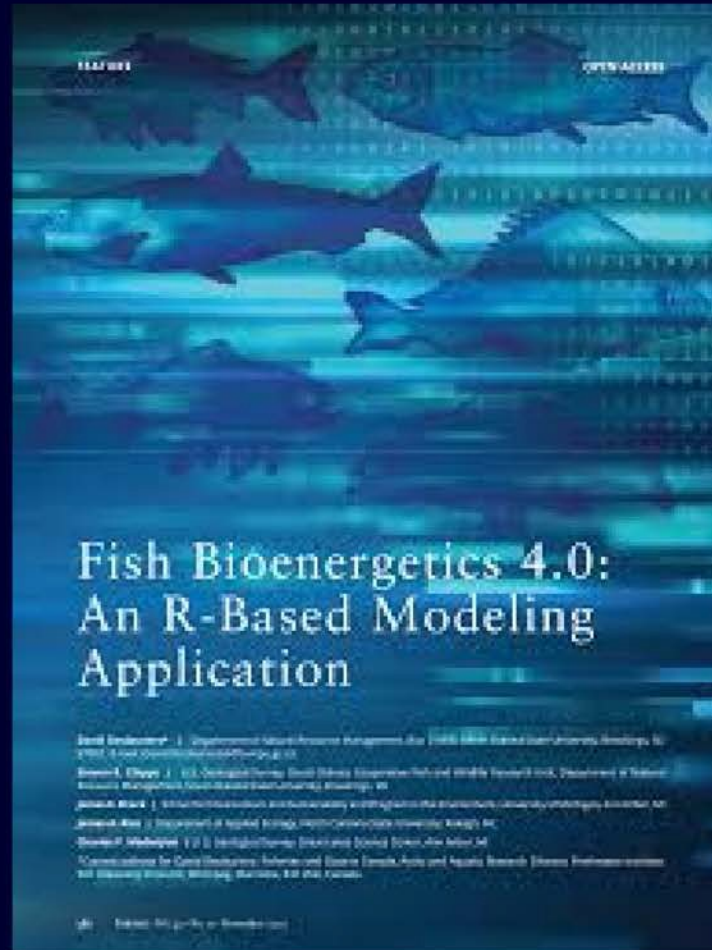
3 – Rialto–Colton Basin

- a. Provide technical outreach
- b. Document InSAR analysis
- c. Document model of flow across Rialto–Colton fault
- d. Document model of wellbore flow in Rialto #6 well



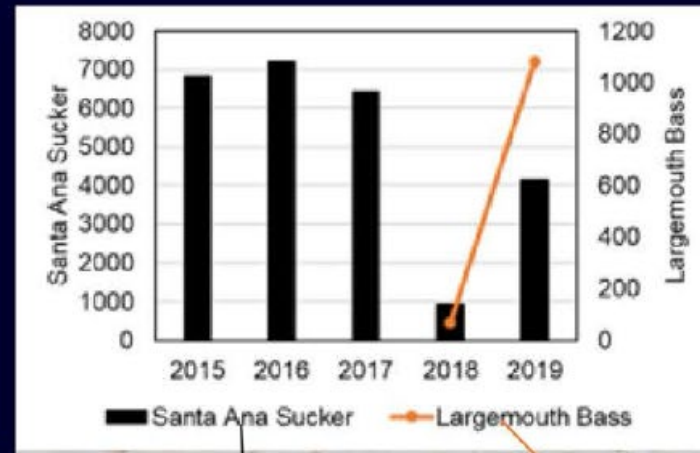
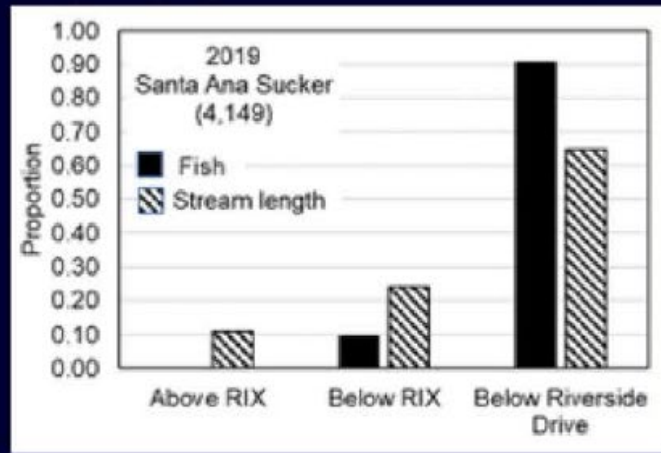
4 – Santa Ana River

a. Document effect of wastewater discharges on river habitat



5 – Fish studies

- Develop population estimate for native and non-native fish species
- Compile fish surveys to describe population dynamics
- Develop a population viability analysis for native fishes



6 – Upper Santa Ana River Integrated Model

- a. Provide technical support
- b. Prepare journal article on the geology of the Upper Santa Ana Basin



FY 21-22 Program

- Supports Valley District's Mission, Vision, and Values
- Collaborative
- Science-Based Decisions
- Trustworthy
- Transformative

Basin and Task	Funding		
	SBVMWD	USGS	Total
1. Bunker Hill and Lytle Creek Basins			
a. Providing technical outreach	\$14,078	\$3,472	\$17,550
b. Rehabilitation of USGS monitoring-well sites	\$23,251	\$3,834	\$27,085
c. Follow-up on rehabilitation of USGS monitoring-well sites	\$18,246	\$4,562	\$22,808
Subtotal	\$55,575	\$11,868	\$67,443
2. Yucaipa Basin			
a. Providing technical outreach	\$11,859	\$2,965	\$14,824
b. Integrated hydrologic model scenarios	\$48,245	\$12,061	\$60,306
c. Distribution of Nitrate SIR	\$76,036	\$19,009	\$95,045
d. Analysis of groundwater age and stable isotopes			
e. Climate stations	\$120,279	\$7,461	\$127,740
Subtotal	\$256,419	\$41,496	\$297,915
3. Rialto-Colton Basin			
a. Providing technical outreach	\$4,992	\$1,248	\$6,240
b. Documentation of InSAR analysis			
c. Documentation of a hypothetical model for simulation of flow across the Rialto-Colton fault	\$9,985	\$2,500	\$12,485
d. Documentation of modeling of wellbore flow in Rialto-6 well	\$4,060	\$1,015	\$5,075
Subtotal	\$19,037	\$4,763	\$24,160
4. Santa Ana River			
a. Report on wastewater discharges and habitat conditions	\$25,540	\$6,390	\$31,930
Subtotal	\$25,540	\$6,390	\$31,930
5. Santa Ana Native Fish Study			
a. Native fish population estimate; b. Bioenergetics model for bass	\$185,320	\$42,201	\$227,521
Subtotal	\$185,320	\$42,201	\$227,521
6. Upper Santa Ana River Integrated Model			
a. Providing technical input and support for regional modeling effort	\$19,109	\$4,542	\$23,651
b. Report on geology of Upper Santa River Groundwater Basin			
Subtotal	\$19,109	\$4,542	\$23,651
TOTAL (Tasks 1-6)	\$561,001	\$111,259	\$672,260

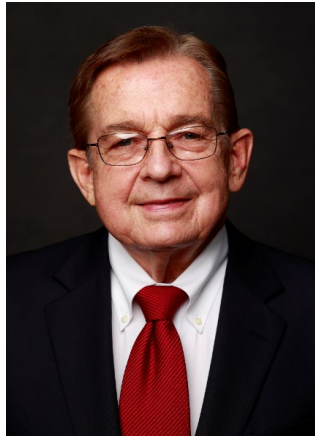
Director Comments and Discussion



Paul Kielhold
President



June Hayes
Vice President



**T. Milford
Harrison**
Treasurer



Gil J. Botello
Director



Susan Longville
Director

Staff Recommendation

Authorize staff to forward this item to a future Board of Directors regular meeting for consideration.

Discussion Item 4.4 (Pg. 66)

Chris Jones, MESM – Preserve System Program Manager

Joanna Gibson, MS – Executive Director Upper SAR HCP

Consider Approval of Resolution No. 1122 Authorizing Staff to Submit a Grant Application to the Wildlife Conservation Board Riparian Habitat Conservation Program

Staff Recommendation

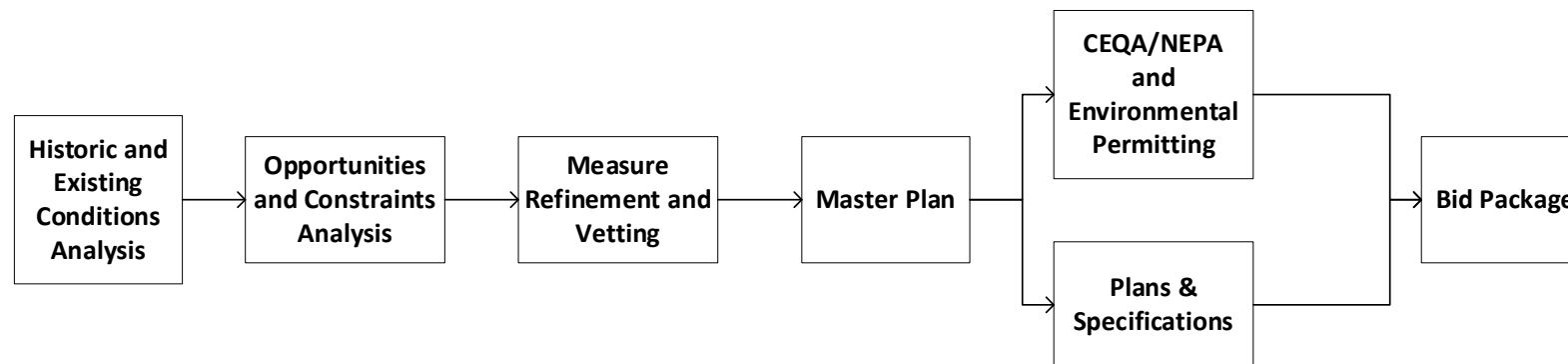
Staff recommends the Board direct staff to place Resolution No. 1122 on the next Board of Directors regular meeting agenda for consideration.

LRPPG Consortium & Roles

- Inland Empire Resources Conservation District (IERCD)
 - Primary Leaseholder
 - Conservation-Focused Educational Programs
- San Bernardino Valley Municipal Water District (SBVMWD)
 - Sunnyslope Creek Restoration
- Huerta Del Valle (HDV)
 - Sustainable and Community Agriculture
- Orange County Water District (OCWD)
 - Restoration Maintenance at Sunnyslope Creek
- Sunshine Haven Animal Rescue and Wildlife Rehabilitation (Sunshine Haven)
 - Onsite Wildlife Rehabilitation Center



Planning Process Overview



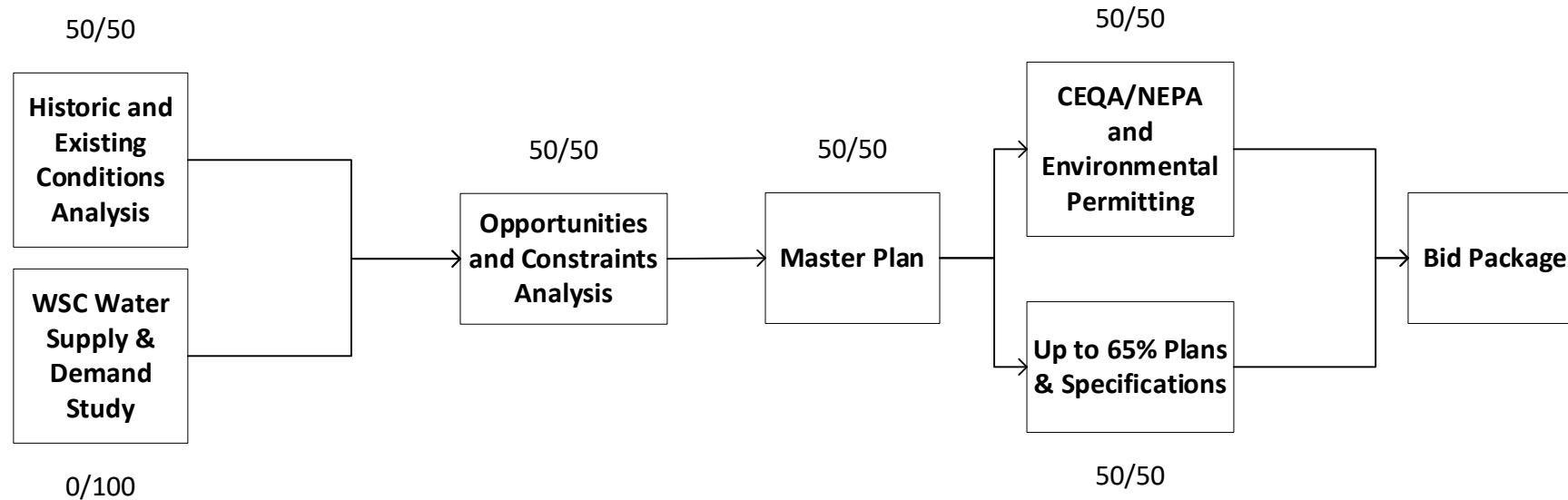
WCB California Riparian Habitat Conservation Program

- Goals (<https://wcb.ca.gov/Programs/Riparian>)
 - The goal of the CRHCP, as noted in its enabling legislation, is to protect, preserve, and restore riparian habitats throughout California.
 - Typical riparian projects include, but are not limited to:
 - ✓ Restoration of riparian vegetation and re-establishing floodplain connectivity.
 - ✓ Active or passive restoration that may include an element of invasive plant removal and control.
 - ✓ Installation of fencing along the riparian corridor to manage livestock or wildlife and reduce impacts to streams or riparian vegetation.
 - ✓ Reconfigure degraded, incised, or undefined streams to restore natural hydrology and encourage reestablishment of native riparian habitat.
- Process & Timelines
 - Call for Concepts (March 31, 2021)
 - Invitation to Submit Full Application (June 8, 2021)
 - Full Application (Due July 15, 2021)
 - Estimated Award Decision (September 2021)



Call for Concepts Submittal: Tasks and Budget

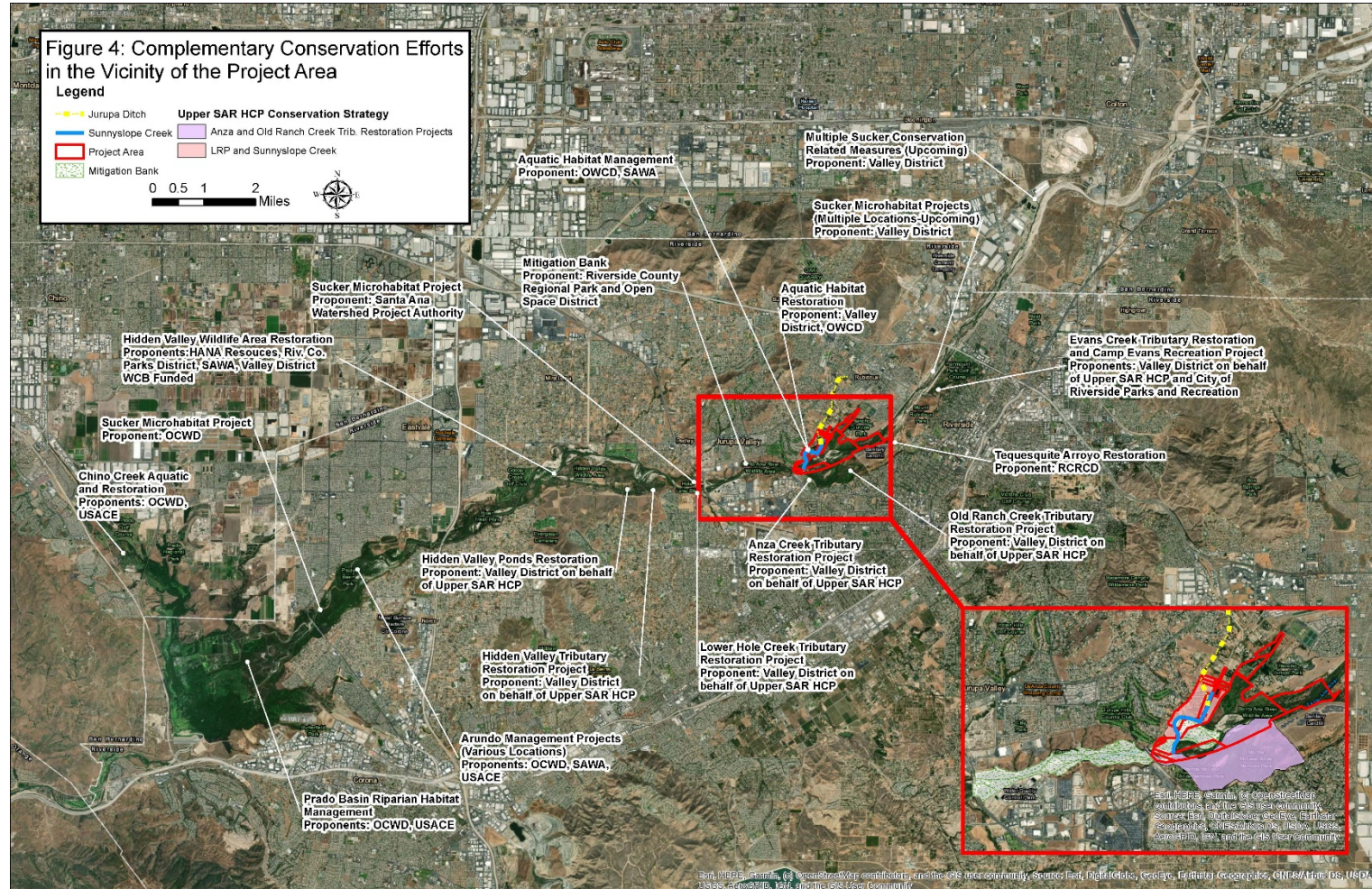
* Percent of task requested to be funded by grant versus match shown above each general task block (Grant Ask %/Match %)



** Additional tasks included in the grant ask are shown below:

- Public Outreach: 15/85
- Site Safety (Parks District Rangers): 0/100

Call for Concepts Submittal: Regional Conservation



Full Application

- Tasks: Same as Call for Concepts
- Benefits to Valley District and HCP Partners
 - Part of Conservation Strategy for the HCP
 - Opportunity to educate public on the HCP and its associated environmental compliance programs
 - Field station
- Outstanding example of Regional Watershed Management and Collaboration



Full Application: Project Area



Full Application: Fiscal Impact

Total Task Costs: \$1,554,000

Grant Ask: \$393,000 (25%)

Match: \$1,161,000 (75%)

HCP Cost-Share of Match:

- Valley District (40%): \$464,000
- HCP Funding Partners (60%): \$697,000

* The Consortium, including Valley District, is looking into additional funding opportunities to contribute to the portion of the planning effort that is not covered by the grant request.

**Valley District, on behalf of the Consortium, has responded to a Call for Concepts for the WCB's Public Access Program and is asking for an additional \$358,000 in grant funds to fund public access related components of the overall effort at the LRPPG. For example, things like trails, observation platforms/blinds, interpretive signage, education facilities, etc.



Full Application: Resolution No. 1122



Varner & Brandt has reviewed Resolution No. 1122

Terms:

- Authorization of staff to submit an application for grant funding from the WCB;
- Certification that our application will comply with all federal, state and local environmental, public health, and other appropriate laws and regulations;
- Commitment of the District to the terms and conditions specified in the grant agreement (Varner & Brandt has reviewed); and
- Appointment of a designated person as a representative of Valley District to conduct negotiations, execute, submit and sign all documents.



Director Comments and Discussion



Paul Kielhold
President



June Hayes
Vice President



**T. Milford
Harrison**
Treasurer



Gil J. Botello
Director



Susan Longville
Director

Staff Recommendation

Authorize staff to forward this item to a future Board of Directors regular meeting for consideration.



Future Business

Adjournment
