



San Bernardino Valley Water Conservation District

Helping Nature Store Our Water

OPERATIONS COMMITTEE AGENDA

Tuesday, February 6, 2024 – 9:00 a.m.

Any member of the public wishing to listen to or participate in the meeting can join via Zoom:

Call in (669) 900-6833, Meeting ID: 812 0919 7861

To join the Zoom meeting on <https://us02web.zoom.us/j/81209197861>

While the District makes every attempt to follow all guidance re COVID-19 safety protocols, the District cannot assure in-person attendees that they will not be exposed to COVID-19 or persons who have been so exposed, and attendees are advised to exercise caution in limiting their own incidences of exposure, particularly those who may be in groups at higher risk of infection, or serious symptoms of COVID-19 if infected.

Note: Copies of staff reports and other documents relating to the items on this agenda are on file at the District office and are available for public review during normal District business hours. New information relating to agenda topics listed, received, or generated by the District after the posting of this agenda, but before the meeting, will be made available upon request at the District office and in the Agenda Package on the District's website. It is the intention of the San Bernardino Valley Water Conservation District to comply with the Americans with Disabilities Act (ADA) in all respects. If you need special assistance with respect to the agenda or other written materials forwarded to the members of the Board for consideration at the public meeting, or if as a participant at this meeting you will need special assistance, the District will attempt to accommodate you in every reasonable manner. Please contact Athena Laroche at (909) 793-2503 at least 48 hours prior to the meeting to inform her of your particular needs and to determine if accommodation is feasible. Please advise us at that time if you will need accommodations to attend or participate in meetings on a regular basis.

CALL TO ORDER

1. PUBLIC PARTICIPATION

Members of the public may address the Board of Directors on any item that is within the jurisdiction of the Board; however, no action may be taken on any item not appearing on the agenda unless the action is otherwise authorized by Subdivision (b) Section 54954.2 of the Government Code.

2. ADDITIONS/DELETIONS TO AGENDA

Section 54954.2 provides that a legislative body may take action on items of business not appearing on the posted agenda under the following conditions: (1) an emergency situation exists, as defined in

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BOARD OF DIRECTORS

Division 1:
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Division 2:
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Division 3:
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Division 4:
John Longville

Division 5:
Melody McDonald

GENERAL MANAGER

Betsy Miller

Section 54956.5; (2) a need to take immediate action and the need for action came to the attention of the District subsequent to the agenda being posted; and (3) the item was posted for a prior meeting occurring not more than five calendar days prior to the date action is taken on the item, and at the prior meeting the item was continued to the meeting at which action is being taken.

3. **APPROVAL OF MEETING MINUTES FROM OCTOBER 10, 2023**
4. **MENTONE SHOP IMPROVEMENTS VERBAL UPDATE**
5. **DRAFT PERC POLICY COMMITTEE STATUS REPORT NO. 17**
6. **DRAFT ENGINEERING INVESTIGATION REPORT FOR 2024 VERBAL UPDATE**
7. **ENHANCED RECHARGE VERBAL UPDATE**
8. **FIELD OPERATIONS UPDATE PRESENTATION**
9. **ZANJA RESTORATION CONCEPTUAL PLAN PRELIMINARY DISCUSSION**
10. **DISTRICT CAPITAL IMPROVEMENT PROJECT (CIP) PRIORITY LIST FOR FISCAL YEAR 2024-2025**
11. **NEXT QUARTERLY MEETINGS**
 - A. **MAY 21, 2024**
 - B. **AUGUST 6, 2024**
 - C. **NOVEMBER 5, 2024**
12. **ADJOURN MEETING**

Committee Members:
Richard Corneille, Chair
Robert Stewart

Alternate:
Melody McDonald

SAN BERNARDINO VALLEY WATER CONSERVATION DISTRICT
MINUTES OF THE OPERATIONS COMMITTEE MEETING
OCTOBER 10, 2023
9:00 A.M.

Chairman Corneille called the Operations Committee meeting to order at 9:02 A.M. The meeting was held as a hybrid meeting with in-person and Zoom/teleconference attendance.

OPERATIONS COMMITTEE MEMBERS PRESENT:

Richard Corneille, Chairman
Robert Stewart, Vice President

STAFF PRESENT:

Betsy Miller, General Manager
Manuel Colunga, Field Supervisor
Katelyn Scholte, Principal Engineer
Erwin Fogerson, PERC Engineer
Athena Laroche, Administrative Specialist
Laura Torres, Assistant Engineer

OTHERS PRESENT:

None

1. PUBLIC PARTICIPATION

There was no public present.

2. ADDITIONS/DELETIONS TO AGENDA

There were none.

3. APPROVAL OF MEETING MINUTES FROM JULY 25, 2023

It was moved by Vice President Stewart and seconded by Director Corneille to approve the meeting minutes from July 25, 2023, as presented. The motion carried 2-0, with all directors present voting in the affirmative.

Vice President Stewart: Yes
Director Corneille: Yes

4. FIELD SUPERVISOR UPDATE PRESENTATION

Mr. Colunga presented a PowerPoint on field activities. He reviewed the test pits dug on the former Lockheed property by Klinefelter. Vice President Stewart asked if there was a significant variance in percolation rates across the study site. Ms. Torres indicated that the report with these details is pending.

Ms. Scholte said that a clay layer was found during the excavations and noted how study results showing its extent will be valuable to operations. Ms. Torres reviewed the test pit process, noting that it included using sounder measurements.

Ms. Miller said that sand removal has been paused pending additional demand. New entities have expressed interest in obtaining sand and we have requested appropriate insurance information prior to proceeding.

Mr. Colunga reviewed the basin cleaning that is being performed. He said that field staff removed approximately forty trash bags dumped on the Mendoza Property. He reviewed sand removal that has occurred to date, noting delivery of sand to the Enhanced Recharge Project as well as and Mr. Purvis' work to load the sand to hauling trucks. Mr. Colunga reviewed the Santa Ana River water intake. Vice President Stewart asked for details on water tracking. Mr. Colunga discussed the Daily Flow Report and noted the on-going interagency communication among field staff.

5. ENHANCED RECHARGE VERBAL UPDATE

Ms. Scholte reviewed this item via PowerPoint. She discussed the grout curtain that has been installed between the main canal and basin 14. Santa Ana River (SAR) water and State Water Project (SWP) water was turned off last week following measurement of high groundwater levels at the project site. The contractors are currently focused on drop structure 6. Ms. Miller said that staff will meet to optimize groundwater recharge operations during construction this winter. Vice President Stewart asked if the project was on schedule. Ms. Scholte said that it is slightly ahead of schedule.

6. MENTONE SHOP IMPROVEMENTS VERBAL UPDATE

Mr. Fogerson reviewed this item via PowerPoint. The waterline was installed at the Mentone Shop. A new septic system was installed at the Mentone House, so the waterline had to be removed and is currently being reinstalled. The permit is awaiting revision for percolation and septic calculations. The building has been ordered. Mr. Fogerson said that the house has two septic systems: one for the kitchen and the other for the remainder of the house. He noted that the kitchen is temporarily hooked to the new septic system. The other septic system is full of grease and also needs to be replaced. Staff will bring proposed plans to the Board once more information is obtained. Ms. Miller said she appreciates the engineering team supporting this item. The fire hydrant is coordinated with the City of Redlands (Redlands) and will be installed soon on Flume Street. Ms. Scholte said the building should be delivered in December. Mr. Fogerson noted that he is working on a site plan.

7. MILL CREEK DIVERSION AND DEBRIS MANAGEMENT IMPROVEMENT PROJECTS VERBAL UPDATE

Mr. Fogerson said that the project is on schedule and budget. He noted that the cut-off wall had been extended along the entire length of the inlet channel. The gates will be installed late next week or the following week. Staff will be trained on how to use the new gates. Mr. Fogerson said that staff are preparing a zero-dollar change order to address revisions in earthwork due to Hurricane Hilary. Vice President Stewart asked for details on using the casings as forms. Mr. Fogerson reviewed the work completed to date, noting that the walls have been poured. Mr. Fogerson said that there may be a minor

design change to align with the existing earth and channel, which would be funding through the project contingency if needed.

8. PROGRAM FOR EXPANSION OF RECHARGE CAPACITY (PERC) POLICY COMMITTEE STATUS REPORT NO. 15.

Mr. Fogerson presented this item. This status report was provided to the Board at its last Board meeting. The PERC projects status is listed below:

- Waterman and Lynwood – Diversion and hydraulics has been completed.
- Plunge and Oak Creek – Flood plain analysis is underway.
- Mill Creek - Basin routing analysis is being conducted.
- All three contracts are conducting sediment transport analysis.

Vice President Stewart asked if the City of Highland (Highland) is aware of the Districts' plans. Mr. Fogerson noting meetings and informal communications with Highland to provide updates on District activities. All of the contracts are under budget: This is due to both the removal of Cook Creek and digging the Mill Creek test pits in-house. Director Corneille asked for details on any possible project delays, including critical path items. Mr. Fogerson said that San Bernardino County Flood Control District (FCD) review is a critical path item. He noted that staff members we have worked with have announced their retirement.

Ms. Miller discussed the opportunity to leverage PERC funds as a match for a U.S. Bureau of Reclamation WaterSmart grant application. This item was discussed and supported by the PERC Policy Committee. The District would work with professors from UCLA and Sacramento State to support this work, if the grant is received. Vice President Stewart spoke in support of the grant application. Discussion on modeling ensued.

9. SEDIMENT MANAGEMENT DISCUSSION

Ms. Miller introduced this item for discussion. This item was discussed with the Board during their last meeting. To date, over \$200,000 worth of sand hauling costs have been saved by working with local partners. Vice President Stewart asked for the rate previously charged by the District for sand. Ms. Scholte noted that the District has not charged for sand in approximately five years. Ms. Miller said that Ms. Torres calculated approximately 100,000 cubic yards of sand remaining on-site for removal. She said that the new Mill Creek diversion and the sedimentation basins proposed as part of PERC are expected to solve much of the sedimentation issues, but significant sediment from past operations still needs to be removed.

10. CAPITAL EQUIPMENT AND VEHICLE PURCHASES VS. LEASE DISCUSSION

Ms. Miller introduced this item for discussion. She said that staff recommends lease options following review of two quotes to purchase a loader. If the Board would like to further explore purchasing, staff can work with Sourcwell to obtain government discounts. The Board has previously authorized staff to continue to lease the loader through the end of the year at the cost of approximately \$10,000 per month. Ms. Miller has also had initial conversations with partner agencies about leasing any under-utilized equipment. Mr. Fogerson shared examples of the County contracting on-call equipment services. Vice

President Stewart spoke in support of leasing at this time, and recommended reviewing this decision when the PERC projects are constructed and operational. He believes that on-call service is a good idea, as well as partnering with partner agencies for the use of their equipment. Mr. Colunga has talked to other agencies about being trained on their equipment as well. Director Corneille suggested waiting until the District understands the total needs prior to purchasing equipment. He asked how the sediment was calculated. Ms. Torres said that the sediment was calculated based on LiDAR data. Director Corneille said that sediment has accumulated over multiple years and staff confirmed this statement. Ms. Miller noted we will evaluate inclusion of additional funds for sediment removal in the FY25 budget. Vice President Stewart and Director Corneille spoke in support of reducing these stockpiles.

It was moved by Director Corneille and seconded by Vice President Stewart to continue to lease rather than purchase equipment, until the District has more information on long-term maintenance needs related to new facilities. The motion carried 2-0, with all directors present voting in the affirmative.

**Vice President Stewart: Yes
Director Corneille: Yes**

11. REDLANDS HINCKLEY WATER TREATMENT PLANT EXPANSION

Ms. Miller provided a handout of the map of Hinckley Water Treatment Plant Expansion. Redlands reached out to the District for preliminary discussions related to expansion of the plant, including constructing additional basins on our land, six months ago. Staff does not have any additional details at this time. The site plan was reviewed in brief.

12. NEXT QUARTERLY MEETINGS

The quarterly meetings were reviewed by the Committee.

13. ADJOURN MEETING TO FIELD TOUR

There was no further business, and the meeting adjourned at 10:20 A.M.

It was moved by Vice President Stewart and seconded by Director Corneille to adjourn. The motion carried 2-0, with all directors present voting in the affirmative.

**Vice President Stewart: Yes
Director Corneille: Yes**



San Bernardino Valley Water Conservation District

Helping Nature Store Our Water

PERC Status Report No.17

To: Partnership Agreement Policy Committee

From: Katelyn Scholte, Principal Engineer

Date: February 27, 2024

Subject: PERC Project Status Report

BACKGROUND

The boards of the San Bernardino Valley Water Conservation District (Conservation District) and San Bernardino Valley Municipal Water District (Valley District) have agreed to draw from the best of both districts to promote a brighter future for groundwater storage and protection of threatened species in the region. This collaborative effort has been realized through the execution of the Partnership Agreement for Active Recharge Project Development under the Upper Santa Ana River Habitat Conservation Plan (Agreement).

The Agreement includes the requirement for the formation of a Partnership Agreement Policy Committee to review and advise the Conservation District staff on a number of items covered in the Agreement. The committee is to meet quarterly throughout the duration of the development of Active Recharge Transfer Projects. Major items of work in the partnership include:

- The Conservation District will provide up to 295 acres of conservation easements to the San Bernardino Valley Conservation Trust, to help offset the environmental impacts of active recharge projects being undertaken to enhance groundwater recharge and storage.
- Valley District will provide funding to the Conservation District, for building new recharge projects, for each acre of conservation easement the Conservation District transfers to the trust.
- Valley District will fund a permanent endowment with the Conservation Trust to support the management of habitat mitigation land.
- Valley District will transfer to the Conservation District the implementation, management, and eventual ownership of the following tentative list of proposed Active Recharge Projects:
 1. Mill Creek Diversion (expansion, construction, and operations)
 2. Plunge Creek Basins 1 (construction and operations)
 3. Plunge Creek Basins 2 (construction and operations)
 4. City Creek Basins (construction and operations)
 5. Waterman Percolation Basins (reconstruction and maintenance)
 6. East Twin Creek Basin (repairs and maintenance)

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- The Conservation District will develop plans, specifications, estimates and bid packages (Construction Package) on planned projects and submit them to the Committee for review and concurrence.
- Valley District will draft, and process all required permits and any items of work required under NEPA or CEQA including Water Rights.

This status report is a summary of work completed to date on these major items and provides a look ahead at the planned work in the upcoming quarter.

PROGRAM UPDATE

Conservation Easement (CE) Payment Obligation

The agreement requires payment of 50% of the funds for the CE at completion of the Due Diligence which was paid on June 20, 2019. The remainder was paid on January 13, 2022, for a total paid to date of \$36,875,000.

Conservation Easement Usage Status (295 Acres initially set aside)

Covered Activity (project)	Implementing Agency	Easement Area required (ac)	Easement recordation date	Remaining Available Acreage
				295

Program Management

The following items of work have been performed:

1. A Program Management Plan to guide the long-term implementation of the program has been developed and is being adhered to.
2. A planning level Memo of Understanding (MOU) has been developed and adopted by SBVWCD and SBCFCD. Meetings have been held as necessary to keep the coordination and approval processes moving forward. A resolution was passed by the County Board of Supervisors to support the coordination.
3. Request for Qualifications (RFQ) process has been completed to develop a list of qualified consultants to use for proposal requests. The process resulted in a summary matrix of the fourteen consulting firms based on category and type of work for which they are qualified.
4. Tetra Tech was awarded the contract for the Waterman, Lynwood Basins and Twin Creek Spreading Grounds, total contract amount of \$1,530,615 Feasibility Study Support Contract. Contract expenditure is approximately \$932,391. Hydrology modeling has been accepted. Initial existing condition 1D and 2D hydraulic models have been completed. Geotechnical testing is completed, and the preliminary report received. The Average Annual Storm report is being finalized. The diversion analysis has been completed for the existing condition current gate settings and for other possible proposed conditions. The existing condition basin routing results have been shared with District staff and discussed. The sediment transport model is being developed.

5. Q3 was awarded the contract for the Mill, Bledsoe, and Cook Creek Feasibility Study Support Services, total contact amount of \$2,190,644. The City Creek diversion improvements were removed from the scope and were replaced by optional tasks for studies of Bledsoe and Cook Creeks. The contract includes preliminary engineering for all three sites. Contract expenditure is approximately \$669,322. The hydrology modeling and existing condition hydraulic model through the Mill Creek basins has been completed. The proposed condition hydraulic modeling for the Mill Creek diversion structures and basins has been completed. Percolation testing has been completed and percolation rates received. Percolation testing has been completed and percolation rates have been integrated into the existing condition hydraulic model. Consultant completed a detail model for the newly replaced Mill Creek diversion. An Average Annual Storm report was completed for Bledsoe Creek.
6. CASC Engineering was awarded the contract for the Plunge Creek and Oak Creek Feasibility Study Support Services in the amount of \$786,880 and the Notice to Proceed has been issued. Contract expenditure is approximately \$335,475. Existing Q100 hydrology and geotechnical testing has been completed. The draft floodplain modeling report was completed and SBCFCD accepted the cross sections. The draft geotech report and average annual report have been submitted and comments have been made by staff. Hydraulic analysis of the existing City storm drains has been completed and submitted to District. The sediment transport model is being developed.

Active Recharge Transfer Projects (as listed in the Agreement) PS&E Status

Project Name	Project Priority	Current Plan Phase	CEQA Status	Required Agreements / Permits w/ status	Construction Target date	Recent Activity
Mill Creek Diversion	3	Concept	Not started	ACOE – Not started SBCFCD – Not Started	Not determined	Continued work on hydraulics, basin routing and sediment transport studies. Completed Geotechnical testing, report is in progress. Staff reviewed additional diversion location alternatives.
Plunge Creek Basin 1 &2 (now Plunge Creek Quarry Basins)	1	Preliminary Design	Not started	RRM – Initiated Concept Level Discussion SBCFCD – Initiated through MOU	Not determined	Updated report on average annual storm event received and reviewed. Sediment transport and basin routing analysis underway for Q100. Received comments from SBCFCD on the hydrology/floodplain study.
City Creek (now Bledsoe and Cook Creek)	2	Concept	Not started	SBCFCD – Not Started	Not determined	Note: Cook Creek project has been eliminated. Received and reviewed average annual hydrology study results for Bledsoe Creek site.
Waterman Spreading Grounds	2	Preliminary Design	Not started	SBCFCD - Initiated through MOU	Not determined	Started work on parent hydraulics document for SBCFCD which will include summaries for hydrology, hydraulics, basin routing, and sediment transport analysis. Basin routing and sediment transport analysis in process.
Twin Creek	1	Preliminary Design	Not started	SBCFCD – Initiated through MOU	Not determined	See Waterman Spreading Grounds.

Additional Active Recharge Transfer Projects (not listed in the ARTP Agreement) Status

Oak Creek Basin	1	Preliminary Design	Not started	SBVMWD–Initiated SBCFCD – Initiated through MOU	Not determined	See Plunge Creek Basin 1 & 2. Received the hydraulic analysis of the existing storm drains.
Lynwood Basins	1	Preliminary Design	Not started	SBCFCD – Initiated through MOU	Not determined	See Waterman Spreading Grounds.

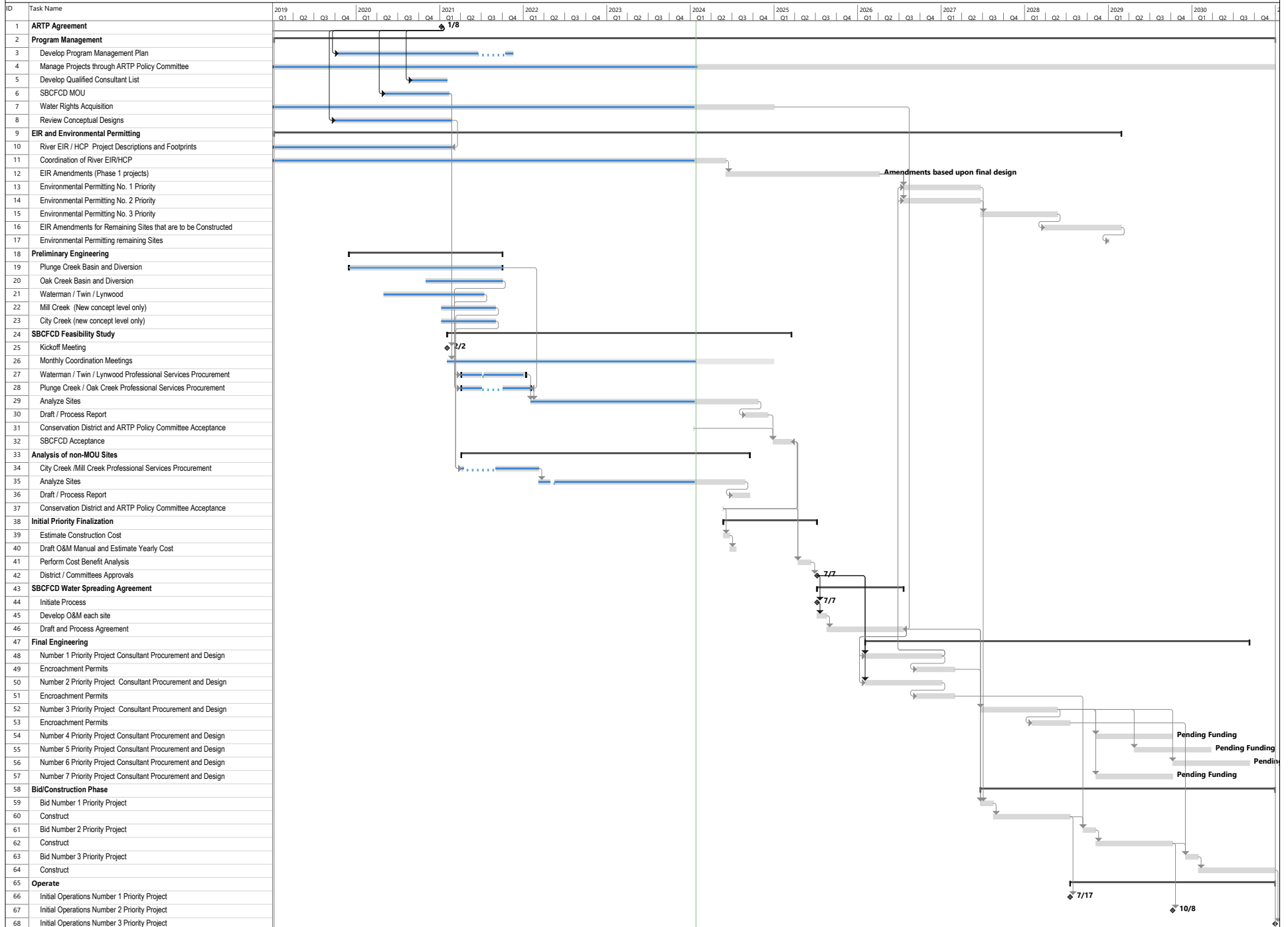
“Next Steps” - Planned Work upcoming Quarter

Project	Planned Activity
Mill Creek Diversion	Continue work on hydraulic model for the proposed condition for basins and an additional diversion in Mill Creek. Add existing condition hydraulic model with initial infiltration rates from geotechnical testing to account for a clean basin scenario. Complete geotechnical testing report. Continue work on sediment transport model and basin routing.
Plunge Creek Quarry Basins	Begin sediment transport model development. Continuing work on basin routing. Meet with City of Highland and discuss both Plunge and oak Creek Project sites.
Bledsoe and Cook Creek	Committee to consider eliminating Bledsoe Creek as a viable site based on average annual storm event results. Cook Creek has been eliminated.
Waterman Spreading Grounds	Continue hydraulics, basin routing, and sediment transport studies for existing condition. Continued work on parent hydraulics document which ties all studies together for SBCFCD review.
Twin Creek	See Waterman Spreading Grounds.
Oak Creek Diversion	Complete initial hydrology and hydraulics studies. Continue hydraulics, basin routing, and sediment transport studies.
Lynwood Basins	See Waterman Spreading Grounds.

EXHIBITS

1. Preliminary Program Schedule

ARTP Program Schedule revised January 2024



SBVWCD Capital Projects and Needs

Existing Facilities Capital Repair and Improvement Projects

CIP No.	Capital Equipment or Project	Cost Est.	Cost to Date	Budget		Status	Running Total
				Remaining	FY Ending		
1	Mill Creek Diversion Improvement	\$2,695,000	\$2,173,821	\$521,179	2016-2024	Ongoing	\$521,179
	Design/Permitting COMPLETED	\$480,000	\$454,125				
	Construction COMPLETED	\$1,750,000	\$1,546,608				
	Mitigation/Monitoring/Construction Management	\$465,000	\$173,087		2023-2029		
31	PERC Projects (formerly ARTP)	\$36,551,336	\$3,476,575	\$33,074,761	2020-2030	Ongoing	\$34,022,653
3b	Mentone Shop Engineering, Permitting and Construction	\$552,550	\$178,838	\$373,712	2018-2024	Ongoing	\$678,001
36	Mill Creek Permitting	\$332,000	\$306,667	\$25,333	2022-2025	Ongoing	\$35,586,532
34	Initial Wash Plan Trails Tasks, including fencing, signage, COI	\$125,000	\$0	\$125,000	2025	Start-up Costs	\$803,001
11	Mill Creek North Canal Flume SB-88 Compliance	\$169,954	\$24,955	\$145,000	2020-2024	Ongoing	\$948,000
23	Mill Creek/SAR Facility Maintenance Upgrades	\$1,000,000	\$0	\$1,000,000	2024-2028	Ongoing	\$35,436,200
25	Community (Distributed) Recharge Planning *moved up from potential	\$100,000	\$0	\$100,000	2025	Opportunity	\$35,714,200
9	Land Stewardship Costs (fencing, gates, aerial survey, etc.)	\$50,000	\$33,000	\$17,000	2020-2025	Ongoing	\$34,436,200
7	River HCP Permitting	\$240,000	\$120,000	\$120,000	2024-2025	Upon HCP Approval	\$34,539,200
3c	Canyon House	\$425,000	\$0	\$425,000	2024-2027	Future Project	\$35,014,200
14	Demolition	\$125,000	0	\$125,000	2024-2027	Future Project	\$35,561,200
15	Replacement	\$300,000	0	\$300,000	2024-2027	Future Project	\$35,314,200
32a	Seven W Property Cleanup and Planning	\$50,000	\$0	\$50,000	2023-2025	Start-up Costs	\$34,589,200
12	Planning for Mendoza	\$120,000	\$0	\$120,000	2026	Opportunity	\$34,162,703
8	Capital Equipment	\$350,000	\$94,004	\$255,996	2029	Ongoing	\$34,419,200
Potential Future Projects, as Resources Allow							
17	Water Recharge Mendoza Design	\$50,000	\$0	\$50,000	2026	Opportunity	\$35,314,200
18	Water Recharge Mendoza Implementation	\$300,000	\$0	\$300,000	2028	Conceptual	\$35,614,200
23	Aggressive Recharge Planning/Permitting—Mill COMPLETED	\$100,000	\$0	\$100,000	2017-2021	Conceptual	\$35,814,200
26	Community (Distributed) Recharge Implementation-Stormwater capti	\$2,000,000	\$0	\$2,000,000	2018-2030	Conceptual	\$39,389,200
27	Greenspot and Cone camp parking/staging/trailheads Project Plannin	\$50,000	\$0	\$50,000	2018-2026	Conceptual	\$39,439,200
28	Post Mine Planning	\$100,000	\$0	\$100,000	2029	Conceptual	\$39,539,200
30	Greenspot/Cone camp parking/staging/trailheads Implementation	\$350,000	\$0	\$350,000	2018-2027	Conceptual	\$39,889,200
25	Bulldozer/long reach excavator permitted cleaning D6T \$400K	\$500,000	\$0	\$500,000	2030	Potential	\$36,389,200
35	Dumptruck with grapple	\$190,000	\$0	\$190,000	2030	Conceptual	\$40,079,200
Total Budgeted Capital Cost		\$16,408,320	\$11,438,123	\$41,551,532			
Net of Grant		\$15,908,320		\$41,051,532			