



Santa Clara Valley Water District Capital Improvement Program Committee Meeting

District Headquarters, Board Conference Room A-124
5700 Almaden Expressway, San Jose, CA 95118

SPECIAL MEETING AGENDA

Thursday, January 3, 2019
10:00 AM

District Mission: Provide Silicon Valley safe, clean water for a healthy life, environment and economy.

Nai Hsueh, Chair, District 5
Linda J. LeZotte, Vice Chair, District 4

Tony Estremera, District 6

All public records relating to an item on this agenda, which are not exempt from disclosure pursuant to the California Public Records Act, that are distributed to a majority of the legislative body will be available for public inspection at the Office of the Clerk of the Board at the Santa Clara Valley Water District Headquarters Building, 5700 Almaden Expressway, San Jose, CA 95118, at the same time that the public records are distributed or made available to the legislative body. Santa Clara Valley Water District will make reasonable efforts to accommodate persons with disabilities wishing to attend Board of Directors' meeting. Please advise the Clerk of the Board Office of any special needs by calling (408) 265-2600.

BETH REDMOND
Committee Liaison

NATALIE F. DOMINGUEZ,
CMC
Assistant Deputy Clerk II
Office/Clerk of the Board
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Note: The finalized Board Agenda, exception items and supplemental items will be posted prior to the meeting in accordance with the Brown Act.

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**Santa Clara Valley Water District
Capital Improvement Program Committee**

**SPECIAL MEETING
AGENDA**

Thursday, January 3, 2019

10:00 AM

District Headquarters, Board Conference Room
A-124
5700 Almaden Expressway, San Jose, CA 95118

1. CALL TO ORDER:

1.1. Roll Call.

1.2. Time Open for Public Comment on any Item not on the Agenda.

Notice to the public: This item is reserved for persons desiring to address the Committee on any matter not on this agenda. Members of the public who wish to address the Committee on any item not listed on the agenda should complete a Speaker Card and present it to the Committee Clerk. The Committee Chair will call individuals in turn. Speakers comments should be limited to three minutes or as set by the Chair. The law does not permit Committee action on, or extended discussion of, any item not on the agenda except under special circumstances. If Committee action is requested, the matter may be placed on a future agenda. All comments that require a response will be referred to staff for a reply in writing. The Committee may take action on any item of business appearing on the posted agenda.

2. APPROVAL OF MINUTES:

2.1. Approval of November 19, 2018 and December 10, 2018 Meeting Minutes. [18-0709](#)

Recommendation: Approve the minutes.

Manager: Michele King, 408-630-2711

Attachments: [Attachment 1: 111918 CIP Committee Minutes](#)

[Attachment 2: 121018 CIP Committee Minutes](#)

3. ACTION ITEMS:

3.1. Calero Dam Seismic Upgrade and Water Reliability Analysis. [18-0745](#)

Recommendation: Receive information and provide direction to staff.

Manager: Kurt Arends, 408-630-2284

- 3.2. Capital Project Monitoring - Planning/Feasibility [18-0746](#)
- Recommendation: Receive and discuss information regarding the status of capital projects in the Planning/Feasibility phase.
- Manager: Katherine Oven, 408-630-3126
Christopher Hakes, 408-630-3796
Ngoc Nguyen, 408-630-2632
Michael Cook, 408-630-2347
- Attachments: [Attachment 1: Capital Project Monitoring Report - Planning/Feasibility](#)
- 3.3. Draft Preliminary Fiscal Years 2020-2024 Capital Improvement Program [18-0748](#)
- Recommendation: Review and discuss the Draft Preliminary Fiscal Years 2020-2024 Capital Improvement Program and provide direction to staff as needed.
- Manager: Ngoc Nguyen, 408-630-2632
- Attachments: [Attachment 1: Draft Preliminary FY 2020-2024 CIP](#)
- 3.4. Anderson Dam Improvements Update. [18-1085](#)
- Recommendation: Receive and discuss information regarding updates of Anderson Dam Improvements.
- Manager: Christopher Hakes, 408-630-3796
- 3.5. Capital Consultant Agreements and Amendments. [18-1086](#)
- Recommendation: Receive information on upcoming consultant agreements and/or amendments that staff will be recommending for Board approval and provide direction as needed.
- Manager: Chris Hakes, 408-630-3796
Ngoc Nguyen, 408-630-2632
Katherine Oven, 408-630-3126
Ashu Tikekar, 408-630-2424
- 3.6. 2018 and 2019 Capital Improvement Committee Work Plans. [18-0737](#)
- Recommendation: Review the 2018 and 2019 Capital Improvement Program Committee Work Plans and make revisions as necessary.
- Manager: Michele King, 408-2630-2711
- Attachments: [Attachment 1: CIP Committee 2018 Workplan](#)
[Attachment 2: CIP Committee 2019 Workplan](#)

4. INFORMATION ITEMS:

5. ADJOURN:

- 5.1. Clerk Review and Clarification of Committee Requests.
This is an opportunity for the Clerk to review and obtain clarification on any formally moved, seconded, and approved requests and recommendations made by the Committee during the meeting.
- 5.2. Adjourn to Rescheduled Regular Meeting at 11:00 a.m., on Monday, January 14, 2019, in the Santa Clara Valley Water District Headquarters Building - Conference Room A-124, 5700 Almaden Expressway, San Jose, California.

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File No.: 18-0709

Agenda Date: 1/3/2019
Item No.: 2.1.

COMMITTEE AGENDA MEMORANDUM

Capital Improvement Program Committee

SUBJECT:

Approval of November 19, 2018 and December 10, 2018 Meeting Minutes.

RECOMMENDATION:

Approve the minutes.

SUMMARY:

In accordance with the Ralph M. Brown Act, a summary of Committee discussions, and details of all actions taken by the Capital Improvement Program Committee, during all open and public Committee meetings, is transcribed and submitted to the Committee for review and approval.

Upon Committee approval, minutes transcripts are finalized and entered into the Committee's historical record archives, and serve as the official historical record of the Committee's meeting.

ATTACHMENTS:

Attachment 1: 111918 CIP Committee Minutes

Attachment 2: 121018 CIP Committee Minutes

UNCLASSIFIED MANAGER:

Michele King, 408-630-2711

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CAPITAL IMPROVEMENT PROGRAM COMMITTEE

MINUTES

**MONDAY JULY 9, 2018
10:00 AM**

(Paragraph numbers coincide with agenda item numbers)

A regular meeting of the Santa Clara Valley Water District Capital Improvement Program Committee (Committee) was called to order in the District Headquarters Building, Conference Room A-124, 5700 Almaden Expressway, San Jose, California, at 10:00 a.m.

1. CALL TO ORDER:

1.1. Roll Call.

Committee members in attendance were District 4 Director L. LeZotte and District 5 Director N. Hsueh, Chairperson presiding, constituting a quorum of the Committee.

District 6 Director T. Estremera was excused from attending.

Staff members in attendance were E. Aryee, J. Collins, M. Cook, C. Hakes, S. Hosseini, M. Meredith, N. Nguyen, L. Orta, K. Oven, L. Rossiter, A. Rouhani, D. Taylor, S. Yamamoto, and T. Yoke.

1.2. Time Open for Public Comment on Any Item Not on the Agenda

Chairperson Hsueh declared time open for public comment on any subject not on the agenda. There was no one present who wished to speak.

2. APPROVAL OF MINUTES:

2.1 Approval of April 25, 2018, Minutes.

Recommendation: Approve the minutes.

It was moved by Director LeZotte, seconded by Chairperson Hsueh, and carried that the minutes be approved as presented. Director Estremera was absent.

2.2 Approval of May 14, 2018, Minutes.

Recommendation: Approve the minutes.

Mr. Darin Taylor, Chief Financial Officer, confirmed that staff would come back during the August 13, 2018, Committee meeting with the information requested by the Committee in the May 14, 2018, Minutes, Page 2, Item 3.2, Bullets 1 through 3.

It was moved by Director LeZotte, seconded by Chairperson Hsueh, and carried that the minutes be approved as presented. Director Estremera was absent.

Chairperson Hsueh moved the agenda to Item 3.3.

3. ACTION ITEMS:

3.3 2018 Capital Improvement Program Committee Work Plan.

Recommendation: Review and make necessary revisions to the 2018 Capital Improvement Program Committee Work Plan, and confirm the Committee's regular meeting schedule for 2018.

Chairperson Hsueh advised the Committee that Board Chairperson Santos had recently assigned herself and Directors Keegan and LeZotte to a workgroup to review the District Act for alternative financing for Water Utility Enterprise (WUE) projects. She discussed the opportunity this created for duplicate efforts between the workgroup and the Capital Improvement Program (CIP) Committee.

Mr. Stan Yamamoto, District Counsel, confirmed that the Brown Act limited the ability of committees to have overlapping efforts.

Chairperson Hsueh confirmed that Chairperson Santos had expressed support for keeping alternative financing for WUE projects within the CIP Committee Work Plan, and disbanding the workgroup.

The Committee made the following requests:

- Mr. Yamamoto is to advise Director Keegan that alternative financing for WUE projects would remain on the CIP Committee Work Plan, and that the workgroup would be disbanded;
- Staff is to come back during the August 13, 2018, CIP Committee discussion on alternative financing for WUE projects with information responding to discussion from the June 13, 2018, workgroup meeting;
- Staff is to revise the CIP Committee Work Plan, CIP Implementation Section, Lines 2 and 7, to remove the duplicate listing of *South County Recycled Water* and *South County Recycled Water Pipeline*; and
- Staff is to revise the CIP Committee Work Plan, CIP Implementation Section, Line 5, to read *Alternative Financing WUE Projects* (~~Special Tax~~).

Chairperson Hsueh returned the agenda to Item 3.1. Discussion on Item 3.3 resumed as noted below.

3.1 Priority Ranking Criteria for Water Resources Stewardship Projects.

Recommendation: Review, discuss, and provide input regarding the Capital Improvement Program Priority ranking criteria for Water Resources Stewardship Projects.

Mr. Ngoc Nguyen, Deputy Operating Officer, reviewed the information on this item, per the attached Committee Agenda Memo.

The Committee made the following requests:

- Staff is to revise Attachment 2, Column 4 Heading, to read ***Remaining Cost Funding Needed (\$K [FY 19 to Completion])***;
- Staff is to come back during the September 10, 2018, Committee meeting with a list of non-specific Safe, Clean Water (SCW) Environmental Stewardship commitments, and discussion on what process and timelines the Board of Directors will follow to identify, prioritize, and select environmental stewardship projects to meet SCW commitments; and
- After the above discussion, the Committee will work on modification to the current CIP priority ranking criteria for Water Resources Stewardship Projects, as needed.

3.2 Capital Projects Status Update—Construction.

Recommendation: Receive and discuss information regarding the status of capital projects in the construction phase.

Ms. Katherine Oven, Deputy Operating Officer, Mr. Nguyen, Mr. Saied Hosseini, Capital Engineering Manager, and Mr. Michael Cook, Information Technology Manager, reviewed the information on this item, per the attached Committee Agenda Memo, and per the information contained in Attachment 1.

Ms. Oven, Mr. Nguyen, and Mr. Cook respectively provided additional information on the Upper Llagas Creek Flood Protection Project, the Matadero Creek Sediment Removal and Erosion Repair and San Tomas Aquino Creek Erosion Repair Projects, and the Geographic Information Systems (GIS) Enterprise and Managed Cloud Services Agreements.

Mr. Nguyen distributed the attached Bid Results for the aforementioned Matadero and San Tomas Aquino Creek Projects, identified as Handout 3.2-A herein. Copies of the Handout were distributed to the Committee and made available to the public.

The Committee made the following requests:

- Staff is to bring discussion on the Rinconada Water Treatment Plant Reliability Improvement Project to the full Board of Directors, at the soonest Open or Closed Session opportunity;

- Staff is to provide a verbal report on the Permanente Creek Project to the full Board of Directors during the July 10, 2018, Board meeting, and follow up with a status report to the full Board at the next available Board meeting; and
- Staff is to go back to the full Board of Directors with information responding to previous concerns and requests expressed by Director Kremen, and a recommended action on the GIS Enterprise and Managed Cloud Services Agreements.

The Committee resumed consideration of Item 3.3.

3.3 2018 Capital Improvement Program Committee Work Plan.

Recommendation: Review and make necessary revisions to the 2018 Capital Improvement Program Committee Work Plan, and confirm the Committee's regular meeting schedule for 2018.

Chairperson Hsueh confirmed that the next two regular Committee meetings would be held at 10:00 a.m. on August 13 and September 10, 2018, and requested that a presentation on the Pacheco Reservoir Expansion Project be provided during the August 13, 2018, meeting.

4. INFORMATIONAL ITEMS:

None.

5. ADJOURN:

5.1 Clerk Review and Clarification of Board Requests.

Ms. Michelle Meredith, Deputy Clerk of the Board, read the new Committee Recommendations and Requests into the record, as follows:

In regards to Item 3.1:

- Staff is to revise Attachment 2, Column 4 Heading, to read ***Remaining Cost Funding Needed (\$K [FY 19 to Completion])***;
- Staff is to come back during the September 10, 2018, Committee meeting with a list of non-specific Safe, Clean Water (SCW) Environmental Stewardship commitments, and discussion on what process and timelines the Board of Directors will follow to identify, prioritize, and select environmental stewardship projects to meet SCW commitments; and
- After the above discussion, the Committee will work on modification to the current CIP priority ranking criteria for Water Resources Stewardship Projects, as needed.

In regards to Item 3.2:

- Staff is to bring discussion on the Rinconada Water Treatment Plant Reliability Improvement Project to the full Board of Directors, at the soonest Open or Closed Session opportunity;
- Staff is to provide a verbal report on the Permanente Creek Project to the full Board of Directors during the July 10, 2018, Board meeting, and follow up with a status report to the full Board at the next available Board meeting; and
- Staff is to go back to the full Board of Directors with information responding to previous concerns and requests expressed by Director Kremen, and a recommended action on the GIS Enterprise and Managed Cloud Services Agreements.

In regards to Item 3.3:

- Mr. Yamamoto is to advise Director Keegan that alternative financing for WUE projects would remain on the CIP Committee Work Plan, and that the workgroup would be disbanded;
- Staff is to come back during the August 13, 2018, CIP Committee discussion on alternative financing for WUE projects with information responding to discussion from the June 13, 2018, workgroup meeting;
- Staff is to revise the CIP Committee Work Plan, CIP Implementation Section, Lines 2 and 7, to remove the duplicate listing of *South County Recycled Water* and *South County Recycled Water Pipeline*;
- Staff is to revise the CIP Committee Work Plan, CIP Implementation Section, Line 5, to read *Alternative Financing WUE Projects*; and
- Staff is to come back with a presentation on the Pacheco Reservoir Expansion Project be provided during the August 13, 2018, meeting.

5.2 Adjourn to Regular Meeting at 10:00 a.m. on Monday August 13, 2018, in the District Headquarters Building, Conference Room A-124, 5700 Almaden Expressway, San Jose, California.

5.3 Chairperson Hsueh adjourned the meeting at 12:05 p.m., to the 10:00 a.m., August 13, 2018, meeting, in the District Headquarters Building, Conference Room A-124, 5700 Almaden Expressway, San Jose, California.

Michelle Meredith
Deputy Clerk of the Board

Approved:

Date: August 13, 2018

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BOARD OF DIRECTORS MEETING

MINUTES

DECEMBER 10, 2018
10:00 AM

(Paragraph numbers coincide with agenda item numbers)

A regular meeting of the Santa Clara Valley Water District (District) Capital Improvement Program Committee (Committee) was called to order in the District Headquarters Building, Board Conference Room A-124, 5700 Almaden Expressway, San Jose, California, at 10:00 a.m.

1. CALL TO ORDER:

1.1 Roll Call.

Committee members in attendance were District 4 Director L. LeZotte, District 6 Director T. Estremera, and District 5 Director N. Hsueh, Chairperson presiding, constituting a quorum of the Committee.

Staff members in attendance were E. Baker, J. Collins, C. Hakes, L. Bankosh, J. Martin, A. Mendiola, M. Meredith, L. Orta, K. Oven, B. Redmond, M. Richardson, L. Rossiter, A. Rouhani, D. Taylor, B. Yerrapotu, and T. Yoke.

1.2 Time Open for Public Comment on any Item not on the Agenda.

Chairperson Hsueh declared time open for public comment on any item not on the agenda. There was no one present who wished to speak.

2. ACTION ITEMS:

2.1 Priority Ranking Criteria for the Capital improvement Program.

Chairperson Hsueh explained that this item had been agendized for the Committee in response to Board member concerns raised during the December 5, 2018 Special Board meeting regarding proposed groundwater rate increases, and funding and prioritization of Water Supply Capital Projects. She confirmed that the Committee's objective was to discuss and identify what information or analysis was necessary to present to the Board, for Board consideration of the Preliminary Capital Improvement Plan during the January 8, 2019 regular Board of Directors meeting.

Chairperson Hsueh confirmed that the Committee would defer consideration of adding a Safe, Clean Water Priority Ranking Criterion for Water Supply and Flood Protection Capital Projects to the Fiscal Year 2021-2025 Capital

11/19/18

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Improvement Plan, and requested that staff come back to the full Board during the January 8, 2019 Board meeting with the following information:

- Revised Priority Ranking Criteria Sheets that rename the “Cost Recovery” category to eliminate Board confusion;
- An explanation of the process for screening proposed Capital Projects, before they are rated using the Priority Ranking Criteria;
- An overview of progress that has been made over recent years to eliminate “wish list” items from the CIP, including information on the CIP reprioritization effort led by former District 1 Director Don Gage;
- Information on how a CIP project’s business case is re-evaluated during the project delivery process;
- Information on the unfunded projects prioritization process, and justification for projects to be included on the unfunded projects list;
- Preliminary CIP (bottom-up) funding proposals for various rate increase scenarios; and
- Include a discussion on use of property taxes and capital reimbursement revenues (including subventions).

Mr. William Sherman, WRATES, expressed appreciation for the Committee’s efforts to ensure efficient use of water rate revenues and act in a transparent manner, and discussed prioritization processes used in private industry.

Chairperson Hsueh declared that the Committee would hold a special meeting on Thursday January 3, 2019, at 10:00 a.m., for consideration of the regular business items previously contained on the Committee’s work plan for today’s meeting. She additionally confirmed that if necessary, staff could come back to the Committee on January 3 for additional feedback in preparation for the January 8, 2019 Board of Directors meeting.

Chairperson Hsueh confirmed that the Committee would maintain its regular meeting schedule in 2019, meeting on the second Mondays of the month at 10:00 a.m., but confirmed that the January 14, 2019 regular meeting start time would be delayed to 11:00 a.m.

3. INFORMATION ITEMS: None.

4. ADJOURN:

4.1. Clerk’s Review and Clarification of Committee Requests and Recommendations.

Ms. Michelle Meredith, Deputy Clerk, read the Committee requests contained herein into the record,

- 4.2 Adjourn to Regular Meeting at 10:00 a.m. on December 10, 2018, in the Santa Clara Valley Water District Headquarters Board Conference Room A-124, 5700 Almaden Expressway, San Jose, California.

Chairperson Hsueh adjourned the meeting at 11:25 a.m. to the special meeting on January 3, 2019, at 10:00 a.m., in the Santa Clara Valley Water District Headquarters Board Conference Room A-124, 5700 Almaden Expressway, San Jose, California.

Michelle Meredith
Deputy Clerk of the Board

Approved:

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File No.: 18-0745

Agenda Date: 1/3/2019
Item No.: 3.1.

COMMITTEE AGENDA MEMORANDUM

Capital Improvement Program Committee

SUBJECT:

Calero Dam Seismic Upgrade and Water Reliability Analysis.

RECOMMENDATION:

Receive information and provide direction to staff.

SUMMARY:

Calero reservoir contributes to both annual water supply and operational reliability. On an annual basis, Calero is capable of providing up to 9,500 acre-feet (AF) of water supply. However, due to structural deficiencies found in the dam, the reservoir is under a seismic restriction limiting normal storage to 4,585 AF. The capital project currently at approximately 60% design, will address the structural deficiencies restoring the reservoir's full storage capacity as well as expanding the reservoir outlet capacity.

Because the reservoir is local, Calero provides a local water supply source which is used to recharge the groundwater basin and can also supply raw water directly to the District's surface water treatment plants. This helps in responding to imported water outages and is critical to the District's disaster recovery plan.

Water Supply:

Calero reservoir has an associated water right of 3,500 AF per year from the Calero Creek watershed. In addition, Calero Reservoir is the terminus for the Almaden-Calero Canal water right which allows up to 6,000 AF to be transferred from Almaden Reservoir each year into Calero Reservoir. Combined, these two water rights can provide up to 9,500 AF each year towards meeting the County's overall water supply needs.

Calero Reservoir also provides local storage for imported water supplies, typically Central Valley Project (CVP) supplies brought in from San Luis Reservoir. From a turnout on the Cross Valley Pipeline, CVP supplies (as well as water from Anderson Reservoir) can be released directly into Calero Reservoir for storage and later use. This adds flexibility to the District's raw water system providing an in-county storage option which allows the District to take delivery of imported water supplies which could otherwise be lost. Local or imported water stored in Calero Reservoir can then be put to beneficial use by releasing into Calero Creek for groundwater recharge or into the Almaden Valley Pipeline for delivery to the surface water treatment plants.

Operational Reliability:

Of the District's ten local surface water reservoirs, only three can supply raw water to the District's surface water treatment plants; Anderson, Coyote (via Anderson), and Calero Reservoir. These sources are critical during a CVP outage. When the District is not able to deliver CVP supplies from San Luis Reservoir due to a low point event, Pacheco Pumping Plant outage or other condition, the District utilizes these local storage supplies to supply the treatment plants with raw water until CVP deliveries can be restored.

Infrastructure Reliability Study:

Calero Reservoir is particularly critical in the District's recovery plan for a major earthquake. In a significant seismic event, it is assumed that the South Bay Aqueduct will sustain significant damage (since the pipeline passes through areas prone to landslides) and will require significant time (greater than 60 days) for the State to make repairs and restore deliveries. It is therefore the District's strategy to prioritize restoring supplies from the south.

Calero reservoir is the closest source of water to the water treatment plants, delivered through the Almaden Valley Pipeline. The top priority would be to repair the Almaden Valley Pipeline which at the time of the Infrastructure Reliability Study, was estimated to take less than 30 days to repair following a significant seismic event. Recently condition assessments of the Almaden Valley Pipeline indicate a worse than expected existing condition and will require additional rehabilitation efforts to restore the pipeline to service after a seismic event. Once the Almaden Valley Pipeline is repaired, Calero Reservoir can provide source water to the treatment plants. This would restore treated water production and delivery of minimum winter demands to retailers within 30 days, which is an acceptable service level for the retailers following a seismic event. As the closest supply source, deliveries from Calero Reservoir are the first priority. Repairs would then progress south restoring deliveries from Anderson Reservoir and finally, San Luis Reservoir. Without Calero, service outages could extend an additional 10-15 days, depending on the scenario. Additional system improvements would likely be needed to reduce service outages back to the accepted 30 day target. (Note that outage durations are estimates based on a variety of assumptions on earthquake location, resulting facility damage, and availability of repair equipment and crews; and could be shorter or longer in an actual seismic event.)

Other Reservoir Benefits:

In addition to annual water supply and operational reliability benefits, Calero Reservoir provides other benefits to the Community. As a watershed reservoir, Calero provides incidental flood protection to downstream residents. Although it is not a large watershed, during high rainfall events, natural peak flows are attenuated in the reservoir before spilling from the reservoir.

Calero is also one of only three in-county reservoirs which allows power boating and other recreational uses. It is heavily used by the public, and during the past season while Anderson Reservoir was not open to boating, Calero was one of the only boating locations available to the local community. This will be particularly true during construction of the Anderson Dam Seismic Retrofit Project, when both Anderson and Coyote Reservoirs will be unavailable.

Alternative to Retrofit:

Another seismic dam repair project located in the same watershed is the Guadalupe Dam Project. As

part of the Guadalupe Dam Planning Study, the project consultant prepared an analysis of various project alternatives. This included partial dam removal and full dam removal options. It is assumed that abandoning the dam as-is would not be an acceptable alternative to the Department of Safety of Dams or the resource agencies. Therefore, some level of work would be required. The Guadalupe Planning Study estimated that the cost of partial dam removal would be about the same as the dam retrofit option. The cost of full dam removal is estimated at 1.6 times the cost of a dam retrofit. The high costs of partial or full dam removal are due to the large amount of material that would need to be moved as well as issues related to the mercury found in the reservoir sediments. It can also be assumed that significant mitigation and restoration efforts would be required by the resource agencies.

The analysis provided for the Guadalupe Dam project can provide a general idea of costs that might be expected at the Calero Dam site as Calero would have similar issues such as mercury. In addition to the capital costs of a dam removal alternative, the cost or impact of the lost benefits described above should also be considered.

ATTACHMENTS:

None

UNCLASSIFIED MANAGER:

Kurt Arends, 408-630-2284

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File No.: 18-0746

Agenda Date: 1/3/2019

Item No.: 3.2.

COMMITTEE AGENDA MEMORANDUM

Capital Improvement Program Committee

SUBJECT:

Capital Project Monitoring - Planning/Feasibility

RECOMMENDATION:

Receive and discuss information regarding the status of capital projects in the Planning/Feasibility phase.

SUMMARY:

The CIP Committee's 2018 Workplan includes monitoring of capital projects during all phases of delivery. Staff will prepare a list of active projects to submit to the Committee each month and will provide detailed information on those where potential and/or significant issues have been identified. The projects presented for discussion will be organized by phases: planning/feasibility; design; and construction. Staff will present projects to the CIP Committee for review one phase at a time. Projects currently in the planning/feasibility phase are being presented this month.

Attachment 1 is a list of projects in the Planning/Feasibility phase. A verbal report will be provided at the meeting with more detailed information about recent developments as requested by the Committee.

ATTACHMENTS:

Attachment 1: Capital Project Monitoring Report - Planning/Feasibility

UNCLASSIFIED MANAGER:

Katherine Oven, 408-630-3126

Christopher Hakes, 408-630-3796

Ngoc Nguyen, 408-630-2632

Michael Cook, 408-630-2347

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Capital Project Monitoring Report - December 2018

Planning Phase

Row	Project No.	Project Name	Notes, Upcoming Board Actions or potential issues
<u>Water Utility</u>			
1	91234002	Coyote Pumping Plant ASD	Planning consultant agreement for the Board approval - January 2019 (Design Build project delivery). Geotech investigations for Coyote Chesbro and Uvas Dams on track for completion by December 2018. Phase 1 of Spillway condition assessment report for Coyote Chesbro and Uvas dams on track for completion - fall 2018.
2	91084019	Dam Seismic Stability Evaluation	
3	92C40357	FAHCE Implementation	Draft EIR anticipated to be released in spring 2019.
4	60954001	Pacheco Reservoir Expansion Project	Planning/Design and Program Management Agreements approved by Board in November 2018.
5	92374005	SCADA Remote Architecture & Communications Upgrade	Planning Study Report January 2019; design consultant agreement anticipated by December 2019.
6	92264001	Vasona Pumping Plant Upgrades	Planning consultant agreement for Board approval - January 2019 (Design-Build project delivery).
7	26764001	IRP2 Additional Line Valves	Prepare Condition Assessment Reports - June 2019.
8	91304001	Expedited Purified Water Program - P3	On hold pending outcomes of agreements with potential partner agencies and completion of Countywide Water Reuse Master Plan - July 2019.
<u>Flood Protection</u>			
9	10284007	San Francisquito Creek, SF Bay to Searsville Dam	USACE Chiefs Report and NEPA by December 2018; JPA Draft EIR by December 2018. Draft Problem Definition Report completed in June 2018; final PDR and alternatives analysis underway currently; Planning Study Report to be completed by January 2020. Sec 1126 MOA with USACE - May 2018, USACE Feasibility Study to be completed June 2021; Full construction to meet Board revised project objectives with remaining SCW funding depends on estimated costs and options that will be developed through the planning study.
10	26174043	Coyote Creek, Montague Expressway to Tully Road	Planning Study to be complete by July 2019; USACE does not support multi-objective project; construction extent and options are unknown until completion of planning.
11	40324003s	Upper Penitencia Ck, Coyote Ck-Dorel Drive	
12	50284010	Llagas Creek-Lower, Capacity Restoration, Buena Vista Road to Pajaro River	On Hold.
13	00044026s	San Francisco Bay Shoreline	USACE received \$500 K in FY 2019 to conduct next study phase; coordinating with SBSRP on EIA 4, 5, 10 effort.
<u>Water Resources Stewardship</u>			
14	20444001s	Salt Ponds A5-11 Restoration	Feasibility study on the realignment of Calabazas and San Tomas Creeks by 10/19. Final report on mercury mobilization from opening pond A8 to tidal action by December 2018.
15	62044001	Watershed Habitat Enhancement Studies (Stevens Creek)	Stevens Creek Fish Passage Barrier Analysis agreement executed 4/18; partnership with Mountain View for Moffit Fish Barrier. Define parameters/costs for a planning study with County participation by December 2018; draft Planning Study Report by December 2019; Final Planning Study Report by June 2020.
16	62044003	Ogier Ponds Planning Study	
17	62044001	Metcalf Pond Feasibility Study	Metcalf Pond draft Feasibility Study Report by June 2019; Final Feasibility Study Report by December 2019.
18	26044001	Almaden Lake Improvements	Draft EIR for public review in March 2019; final EIR by November 2019.
<u>Buildings & IT</u>			
19	60274062	ERP System Implementation	District staff has completed the RFP process, and are currently in the final stages of negotiations with a vendor to implement a new ERP system. Two RFPs issued in August 2018 - one for business networks, one for SCADA; consultant agreements for this work are expected to be enacted by June 2019.
20	73274001	Information Technology Disaster Recovery	

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File No.: 18-0748

Agenda Date: 1/3/2019
Item No.: 3.3.

COMMITTEE AGENDA MEMORANDUM

Capital Improvement Program Committee

SUBJECT:

Draft Preliminary Fiscal Years 2020-2024 Capital Improvement Program

RECOMMENDATION:

Review and discuss the Draft Preliminary Fiscal Years 2020-2024 Capital Improvement Program and provide direction to staff as needed.

SUMMARY:

The purpose of this agenda item is for the Committee to review and discuss the Draft Preliminary Fiscal Years (FY) 2020-2024 Capital Improvement Program (CIP) (Attachment 1). This version of the document includes the status of existing projects and a list of the newly-proposed and, as yet, unfunded projects. Staff has developed project proposals for the new projects, identified their priority ranking, and analyzed the financial capacity and availability of staff resources to undertake these projects. Staff is recommending including some of these new projects in the FY 2020-24 CIP.

The Preliminary CIP will be presented to the full Board on January 8, 2019.

ATTACHMENTS:

Attachment 1: Draft Preliminary FY 2020-2024 CIP

UNCLASSIFIED MANAGER:

Ngoc Nguyen, 408-630-2632

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PRELIMINARY FY20 - 24 CIP

Water Supply Projects

Revenue Sources: Groundwater Charges

PRELIMINARY CIP

FY 2020 5-Year CIP Data

Project Category	FY 19 Priority	Number	Project Name	A	B	A + B		Project Phase (FY20)	Funded By	Zone W-2 %	Zone W-5 %
				Actual/ Appropriated thru FY19*	Remaining Cost to Completion	FY20 Plnd Expnd	FY20-34 Project Value				

Values last updated: 12/24/18 (All values are in thousands)

FY 2020 - 2024 CIP

Water Supply - Storage

B	50	91854001	Almaden Dam Improvements	14,954	55,139	793	70,093	7,885	Des	W-2	100%	
A,B	100	91864005	Anderson Dam Seismic Retrofit (C1)	50,114	513,169	4,180	563,283	12,390	Des	W-2/W-5/SCW	79%	22%
	92	91084020s	Calero and Guadalupe Dams Seismic Retrofits	31,229	208,122	1,908	239,351	67,573	PIng/Des	W-2	100%	
A,B	92	91084020	Calero and Guadalupe Dams Seismic Retrofits - Planning	9,008	340	340	9,348	(2)	PIng	W-2	100%	
A,B	92	91874004	Calero Dam Seismic Retrofit - Design & Construct	13,009	136,594	523	149,603	57,818	Design	W-2	100%	
A,B	92	91894002	Guadalupe Dam Seismic Retrofit - Design & Construct	9,212	71,188	1,045	80,400	9,757	Design	W-2	100%	
B	63	95074001	Capital Warranty Services	348	206,277	209	206,625	189,640	PIng	W-2	100%	
B	70	91234002	Coyote Pumping Plant ASD Replacement	1,369	15,012	779	16,381	(604)	PIng	W-2	100%	
E	48	91234011	Coyote Warehouse	6,532	3,114	2,810	9,646	1,999	Const	W-2/W-5	86%	14%
A,B	92	91084019	Dam Seismic Stability Evaluation	21,606	9,115	638	30,721	1,324	PIng	W-2/W-5	72%	28%
E,F	55	91954002	Pacheco Reservoir Expansion Project	17,218	1,328,007	42,347	1,345,225	1,315,828	PIng	W-2/W-5	79%	22%
	52	60954001	Pacheco Reservoir Feasibility Study	561	0	0	561	(14,498)	closing	W-2/W-5	79%	21%
B	76	91214010s	Small Capital Improvements, San Felipe Reach 1-3	3,702	59,446	5,845	63,148	17,337	Continuing	W-2/W-5	79%	21%
Subtotal:				147,633	2,397,401	59,509	2,545,034	1,645,256				

Water Supply - Transmission

B	78	95084002	10-Year Pipeline Rehabilitation (FY18-FY27)	39,525	75,369	24,659	114,894	(10,575)	PIng/Des/Cons	W-2/W-5	95%	5%
C	73	92C40357	FAHCE Implementation	0	130,418	0	130,418	(14,690)	PIng	W-2	100%	
C	62	26764001	IRP2 Additional Line Valves (A3)	1,090	10,046	644	11,136	(453)	PIng/Des	SCW		
B,C	70	26564001	Main & Madrone Pipelines Restoration (A1)	17,236	224	224	17,460	(243)	Const	SCW		100%
	75	91214001	Pacheco Conduit Inspection and Rehabilitation	8,539	0	0	8,539	(693)	closing	W-2/W-5	79%	21%
E	75	92144001	Pacheco/Santa Clara Conduit Right of Way Acquisition	2,896	1,890	1,584	4,786	(8)	Design	W-2/W-5	79%	21%
	83	94384002s	Penitencia Delivery Main/Force Main Seismic Retrofit	34,840	0	0	34,840	2	closing	W-2	100%	

PRELIMINARY FY20 - 24 CIP

Water Supply Projects

Revenue Sources: Groundwater Charges

PRELIMINARY CIP

FY 2020 5-Year CIP Data

Project Category	FY 19 Priority	Number	Project Name	A	B	A + B		Project Phase (FY20)	Funded By	Zone W-2 %	Zone W-5 %	
				Actual/ Appropriated thru FY19*	Remaining Cost to Completion	FY20 Plnd Expnd	FY20-34 Project Value					Change from FY19
Values last updated: 12/24/18 (All values are in thousands)												
B	74	92374005	SCADA Remote Architecture & Communications Upgrade	1,213	6,103	293	7,316	(275)	Plng	W-2/W-5	82%	18%
B	73	92764009	Small Capital Improvements, Raw Water Transmission	849	2,616	90	3,465	(1,107)	Continuing	W-2/W-5	82%	18%
B	73	94764006	Small Capital Improvements, Treated Water Transmission	0	874	167	874	722	Continuing	W-2	100%	
B	62	94084007	Treated Water Isolation Valves	529	7,355	761	7,884	(331)	Plng/Des	W-2	100%	
B	67	92264001	Vasona Pumping Plant Upgrade	1,379	23,005	1,434	24,384	3,166	Plng	W-2	100%	
F	76	94084008	Westside Retailer Interties	74	1,987	6	2,061	57	Plng	W-2	100%	
Subtotal:				64,791	259,887	29,862	324,678	(23,737)				
Water Supply - Treatment												
	47	93084011	Fluoridation at WTPs	10,409	0	0	10,409	0	closing	W-2	100%	
	67	93764003	IRP2 WTP Ops Bldgs Seismic Retrofit	22,134	0	0	22,134	(166)	closing	W-2	100%	
	66	93234043	PWTP Clearwell Recoating & Repair	6,468	0	0	6,468	(44)	closing	W-2	100%	
B	74	93234044	PWTP Residuals Management	0	10,050	0	10,050	(521)	FY21	W-2	100%	
B	84	93294051s	RWTP Residuals Remediation	37,354	18,946	1,431	56,300	(8,388)	Const	W-2	100%	
B	91	93294057	RWTP Reliability Improvement	186,909	108,426	51,469	295,335	6,103	Const	W-2	100%	
B	84	93294056	RWTP Treated Water Valves Upgrade	8,602	21	21	8,623	(189)	Const/Closeout	W-2	100%	
B	73	93764004	Small Capital Improvements, Water Treatment	3,578	55,290	11,753	58,868	16,307	Continuing	W-2	100%	
B	65	93C40409	STWTP Filter Media Replacement Project	0	9460	488	9460		Planning	W-2	100%	
B	79	93C40408	Water Treatment Plant Electrical Improvement Project	0	10860	535	10860		Planning	W-2	100%	
Subtotal:				236,443	213,053	65,697	449,496	33,632				
Water Supply - Recycled Water												
E,F	71	91304001s	Expedited Purified Water Program (EPWP)	24,816	189,576	6,115	214,392	927	Planning	W-2	100%	
E,F	52	91094007s	South County Recycled Water Pipeline	32,778	24,433	22,319	57,211	377	Design	W-5	0%	100%
	61	91244001	Wolfe Road Recycled Water Pipeline	15,033	0	0	15,033	6	closing	W-2	100%	
Subtotal:				57,594	214,009	28,434	271,603	(108,961)				
Water Supply Total:				506,461	3,084,350	183,502	3,590,811	1,546,190				

PRELIMINARY FY20 - 24 CIP

Water Supply Projects

Revenue Sources: Groundwater Charges

PRELIMINARY CIP

FY 2020 5-Year CIP Data

Project Category	FY 19 Priority	Number	Project Name	A	B	A + B		Project Phase (FY20)	Funded By	Zone W-2 %	Zone W-5 %
				Actual/ Appropriated thru FY19*	Remaining Cost to Completion	FY20 Plnd Expnd	FY20-34 Project Value				

Values last updated: 12/24/18 (All values are in thousands)

Validated - Unfunded Projects

C	28	92404003	Alamitos Diversion Dam Improvements	838	2,345	0	3,183	0	**	W-2	100%
C	28	92484003	Coyote Diversion Dam Improvements	323	2,138	0	2,461	0	**	W-2	100%
A,B	72	91C40320	Dam Seismic Retrofit at 2 Dams (Chesbro & Uvas)	0	89,500	0	89,500	0		W-5	0% 100%
E	25	91C40375	Land Rights - South County Recycled Water PL	0	5,816	0	5,816	0		W-5	0% 100%
E,F	71	91C40389	Long-Term Purified Water Program Elements	0	104,491	0	104,491	(5,774)	FY23	W-2	100%
B,E	62	00024006	SCADA System Upgrade	0	19,612	0	19,612	0		W-2/W-5	83% 17%
E,F	32	91C40395	So. County Recycled Water New Storage Tank	0	7,000	0	7,000	0		W-5	0% 100%

Validated - Unfunded Total: 1,161 230,902 0 232,154 (1,074,527)

Legend:

- Black - Black Text: Continuing projects or projects carried forward from the FY 19 CIP
- Gray - Gray Text: Individual projects considered part of a group or family of projects
- Orange - Orange Text: Projects to be completed or cancelled in FY 2019
- Green - Green Text: Projects in the Construction phase
- Blue - Blue Text: New projects proposed for the FY 20 CIP
- * - Column A: Actuals spent through prior year + planned expenditures in current year
- ** - Planning completed

Project Driver:

- A. Regulatory requirements
- B. Repair or replacement of aging infrastructure
- C. District commitment (SCW, FAHCE)
- D. Water Utility Master Plan "No Regrets"
- E. Board Policy
- F. Discretionary projects as directed by the Board

of WS Projects

A. Regulatory requirements	7
B. Repair or replacement of aging infrastructure	17
C. District commitment (SCW, FAHCE)	4
D. Water Utility Master Plan "No Regrets"	0
E. Board Policy	3
F. Discretionary projects as directed by the Board	1
	<u>32</u>

Funded by Legend:

- W-2 - North Zone; revenue is allocated based on % of benefit to the zone
- W-5 - South Zone; revenue is allocated based on % of benefit to the zone
- CSC - funded by revenue from Clean Safe Creeks program
- SCW - funded by revenue from Safe Clean Water program
- PT - funded by revenue from Property Tax
- Subvent - funded by State Subventions

PRELIMINARY FY20 - 24 CIP

Flood Protection Projects

Revenue Sources: COP Proceeds, CSC Special Tax, Property Tax, Subventions

PRELIMINARY CIP

FY 2020 5-Year CIP Data

Project Category	FY 19 Priority	Number	Project Name	A	B	A + B		Change from FY19	Project Phase (FY20)	Funded By
				Actual/ Appropriated thru FY19*	Remaining Cost to Completion	FY20 Plnd Expnd	FY20-34 Project Value			

Values last updated: 12/24/18 (All values are in thousands)

FY 2020 - 2024 CIP

Lower Peninsula Watershed

B	56	10394001	Palo Alto Flood Basin Tide Gate Structure Improvements	3,150	9,080	1,918	12,230	(196)	Design	PT
C	62	10244001s	Permanente Creek, SF Bay to Foothill Expressway	96,251	1,306	1,306	97,557	1,254	Const/Closeout	PT/CSC
C	78	10284007s	San Francisquito Creek, SF Bay thru Searsville Dam (E5)	57,302	10,085	3,586	67,387	1,024	Des/Const	PT/CSC/SCW
Subtotal:				156,703	20,471	6,810	177,174	2,082		

West Valley Watershed

	63	20194005	San Tomas Creek, Quito Road Bridge Replacement	681	0	0	681	0	closing	PT
C	65	26074002	Sunnyvale East and West Channels	27,283	41,413	18,973	68,696	(1,447)	Design	CSC
Subtotal:				27,283	41,413	18,973	68,696	(1,447)		

Guadalupe Watershed

B	60	30114002	Canoas Creek, Rodent Damage Repair	6,893	37	37	6,930	(557)	Construction	PT
C	68	26154001s	Guadalupe River–Upper, I-280 to Blossom Hill Road (E8)	113,444	52,319	22,177	165,763	(209)	Design	CSC/SCW
B	59	30C40411	Lower Guadalupe River Freeboard Restoration (Planning Study)	0	5,013	0	5,013		Planning	PT
C	59	26C40413	Los Gatos Creek Restoration & Flood Protection Project	1,952	8,359	0	8,359		Planning	SCW
Subtotal:				120,337	57,369	22,214	177,706	4,247		

PRELIMINARY FY20 - 24 CIP

Flood Protection Projects

Revenue Sources: COP Proceeds, CSC Special Tax, Property Tax, Subventions

PRELIMINARY CIP

FY 2020 5-Year CIP Data

Project Category	FY 19 Priority	Number	Project Name	A	B	A + B		Change from FY19	Project Phase (FY20)	Funded By
				Actual/ Appropriated thru FY19*	Remaining Cost to Completion	FY20 Plnd Expnd	FY20-34 Project Value			
Coyote Watershed										
C	76	26174041s	Berryessa Creek, Calaveras Boulevard to Interstate 680	47,624	316	261	47,940	(309)	Closeout	CSC
E	68	40174004s	Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd	119,782	70,783	2,268	190,565	(7,143)	Const	PT
C	62	26174043	Coyote Creek, Montague Expressway to Tully Road (E3)	14,507	30,513	941	45,020	8	Plng	CSC
E	83	40264011	Cunningham Flood Detention Certification	11,198	258	225	11,456	(231)	Construction	PT
E	65	40334005	Lower Penitencia Ck Improvements, Berryessa to Coyote Cks.	14,657	12,180	10,629	26,837	(116)	Des/Const	PT
E	98	40264007s	Lower Silver Creek, I-680 to Cunningham (Reach 4-6)	100,635	580	361	101,215	(62)	Construction	Subvent
C	66	40324003s	Upper Penitencia Creek, Coyote Creek to Dorel Drive	13,731	42,576	2,277	56,307	(5,138)	Planning	PT/SCW
Subtotal:				322,134	157,206	16,962	479,340	(12,991)		
Uvas/Llagas Watershed										
B	65	50284010	Llagas Creek-Lower, Capacity Restoration, Buena Vista Road to Pajaro River	4,839	8,527	2,665	13,366	(513)	Design	Subvent
C	70	26174051s	Llagas Creek-Upper, Buena Vista Avenue to Llagas Road	96,950	73,623	40,349	170,573	(2,272)	Construction	CSC/SCW
Subtotal:				101,789	82,150	43,014	183,939	(2,785)		
Multiple Watershed										
C	74	00044026s	San Francisco Bay Shoreline (E7)	33,456	61,613	29,401	95,069	52,634		PT
C	74	00044026	San Francisco Bay Shoreline	15,900	54,566	25,885	70,466		Des/Const	PT
C	74	26444001	San Francisco Bay Shoreline - EIA 11 Design & Partial Construction (E7)	14,516	2,993	2,993	17,509		Des/Const	PT
C	74	26444002	San Francisco Bay Shoreline - Other EIAs Planning (E7)	2,191	4,054	523	6,245		Planning	PT
B	74	62084001	Watersheds Asset Rehabilitation Program	24,455	160,154	8,269	184,609	4,057	Plng/Des/Const	PT
Subtotal:				57,911	221,767	37,670	279,678	56,691		
Flood Protection Total:				786,157	580,376	145,643	1,366,533	45,797		

Values last updated: 12/24/18 (All values are in thousands)

PRELIMINARY FY20 - 24 CIP

Flood Protection Projects

Revenue Sources: COP Proceeds, CSC Special Tax, Property Tax, Subventions

PRELIMINARY CIP

FY 2020 5-Year CIP Data

Project Category	FY 19 Priority	Number	Project Name	A	B	A + B		Change from FY19	Project Phase (FY20)	Funded By
				Actual/ Appropriated thru FY19*	Remaining Cost to Completion	FY20 Plnd Expnd	FY20-34 Project Value			

Values last updated: 12/24/18 (All values are in thousands)

Validated - Unfunded Projects

B	45	30C40414	Lower Guadalupe River Freeboard Restoration (Montague Exwy to Airport Parkway)	0	76,126	0	76,126			
F	59	30C40407	Los Gatos Creek Restoration & Flood Protection Project	0	22,636	0	22,636			

Validated - Unfunded Total: 0 98,762 0 98,762 0

Legend:

- Black - Black Text: Continuing projects or projects carried forward from the FY 19 CIP
- Orange - Orange Text: Projects to be completed or cancelled in FY 2018
- Green - Green Text: Projects in the Construction phase
- Blue - Blue Text: New projects proposed for the FY 20 CIP
- * - Column A: Actuals spent through prior year + planned expenditures in current year

Project Driver:

- A. Regulatory requirements
- B. Repair or replacement of aging infrastructure
- C. District commitment (SCW, FAHCE)
- D. Water Utility Master Plan "No Regrets"
- E. Board Policy
- F. Discretionary projects as directed by the Board

of FP Projects

0
6
13
0
4
1

24

Funded by Legend:

- W-2 - North Zone; revenue is allocated based on % of benefit to the zone
- W-5 - South Zone; revenue is allocated based on % of benefit to the zone
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- SCW - funded by revenue from Safe Clean Water program
- PT - funded by revenue from Property Tax
- Subvent - funded by State Subventions

PRELIMINARY FY20 - 24 CIP

Water Resources Stewardship Projects

Revenue Sources: Groundwater Charges, Property Tax, Subventions

PRELIMINARY CIP

FY 2020 5-Year CIP Data

Project Category	FY 19 Priority	Number	Project Name	A	B	A + B		Project Phase (FY20)	Funded By	Zone	
				Actual/ Appropriated thru FY19*	Remaining Cost to Completion	FY20 Plnd Expnd	FY20-34 Project Value			Change from FY19	W-2 %

Values last updated: 12/24/18 (All values are in thousands)

FY 2020 - 2024 CIP

Mitigation (All Mitigation projects are required per CEQA or other Regulation and therefore do not receive a score)

A	N/A	62184001	SMP Mitigation, Stream and Watershed Land Preservation	15,893	876	876	16,769	35	Continuing	PT	
Subtotal:				15,893	876	876	16,769	35			

Environmental Enhancement & Stewardship

Lower Peninsula Watershed

C	72	00294001s	Stevens Creek Fish Passage Enhancement D4.x	850	19,263	0	20,113	(1,021)	FY21	W-2 (90%)/PT(10%)	100%
C	77	26164001	Hale Creek Enhancement Pilot Study (D6)	1,209	3,644	3,644	4,853	22	Des	CSC/SCW	

Guadalupe Watershed

C	85	26044001	Almaden Lake Improvements (D4.1a)	4,479	27,024	8,741	31,503	(1,296)	Des	CSC/SCW	
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Coyote Watershed

F	78	00C40400s	Watershed Habitat Enhancement Design & Construction	0	62,270	0	62,270	(3,228)	FY21		
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Multiple Watersheds (Lower Peninsula, Guadalupe, Coyote, Uvas/Llagas)

C	50	20444001s	Salt Ponds A5-11 Restoration	4,488	7,625	554	12,113	(1,124)	Design	PT/SCW	
C	80	26044002	SCW Fish Passage Improvements (D4.3; Bolsa, Evelyn, Singleton)	3,347	914	914	4,261	(19)	Des/Const	SCW	
C	75	26C40370	SCW Implementation Fund	500	6,193	3,590	6,693	(14,131)	Plng	SCW	
C	74	26044003	Ogier Ponds Separation from Coyote Creek (D4.1b)	500	2,664	1,463	3,164	3,164	Planning	SCW	

Subtotal: 14,873 126,933 17,443 141,806 (20,797)

Feasibility Studies

F	N/A	62044001	Watershed Habitat Enhancement Studies	1,770	523	523	2,293	20	Feasibility	PT	
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Subtotal: 1,770 523 523 2,293 20

Water Resources Stewardship Total: 32,536 128,332 18,842 160,868 (20,742)

PRELIMINARY FY20 - 24 CIP

Water Resources Stewardship Projects

Revenue Sources: Groundwater Charges, Property Tax, Subventions

PRELIMINARY CIP

FY 2020 5-Year CIP Data

Project Category	FY 19 Priority	Number	Project Name	A	B	A + B		Project Phase (FY20)	Funded By	Zone	Zone
				Actual/ Appropriated thru FY19*	Remaining Cost to Completion	FY20 Plnd Expnd	FY20-34 Project Value			Change from FY19	W-2 %

Values last updated: 12/24/18 (All values are in thousands)

Validated - Unfunded Projects

Stewardship

None - 0 0 0 0

Validated - Unfunded Total: 0 0 0 0

NOTES:

- 1) Implementation of the Mitigation projects is considered non-discretionary since they are needed to meet California Environmental Quality Act (CEQA) or regulatory commitments. Therefore, a priority score is not required.
- 2) Environmental Enhancement projects are implemented at the discretion of the Board. Projects may go through a ranking process to compete for CSC funds or the board may direct that other available revenue be used to implement the proposed projects.

Legend:

- Black - Black Text: Continuing projects or projects carried forward from the FY 19 CIP
- Orange - *Orange Text: Projects to be completed or cancelled in FY 2019*
- Green - *Green Text: Projects in the Construction phase*
- Blue - *Blue Text: New projects proposed for the FY 20 CIP*
- * - Column A: Actuals spent through prior year + planned expenditures in current year

Project Driver:

- A. Regulatory requirements
- B. Repair or replacement of aging infrastructure
- C. District commitment (SCW, FAHCE)
- D. Water Utility Master Plan "No Regrets"
- E. Board Policy
- F. Discretionary projects as directed by the Board

of WRS Projects

1
0
7
0
0
2

10

Funded by Legend:

- W-2 - North Zone; revenue is allocated based on % of benefit to the zone
- W-5 - South Zone; revenue is allocated based on % of benefit to the zone
- CSC - funded by revenue from Clean Safe Creeks program
- SCW - funded by revenue from Safe Clean Water program
- PT - funded by revenue from Property Tax
- Subvent - funded by State Subventions

PRELIMINARY FY20 - 24 CIP

Buildings and Grounds Projects

Revenue Source: Groundwater Charges, Property Tax

PRELIMINARY CIP

FY 2020 5-Year CIP Data

Project Category	FY 19		Project Name	A	B	A + B		Change from FY19	Project Phase (FY20)	Funded By	WUE %	WSS %
	Priority	Number		Actual/ Appropriated thru FY19*	Remaining Cost to Completion	FY20 Plnd Expnd	FY20-34 Project Value					

Values last updated: 12/24/18 (All values are in thousands)

FY 2020 - 2024 CIP

B	73	60204016	Facility Management, Small Capital Improvements	2,500	35,418	2,063	37,918	(3,449)	Continuing	PT/W-2/W-5	60%	40%
F	65	60204032	Headquarters Operations Building	0	15,809	0	15,809	(2,340)	On Hold	PT/W-2/W-5	60%	40%
F	17	60C40410	Employee Workspace Optimization Project (Feasibility and Planning)	0	1,539	0	1,539			PT/W-2/W-5	60%	40%

Buildings & Grounds Total: 2,500 51,227 2,063 53,727 (5,789)

Validated - Unfunded Projects

F	70	60C40363	Fleet and Facility Annex Improvements	0	4,719	0	4,719	0		PT/W-2/W-5	60%	40%
F	17	60C40412	Employee Workspace Optimization Project (Design and Construction)	0	15,600	0	15,600			PT/W-2/W-5	60%	40%

Validated - Unfunded Total: 0 20,319 0 20,319 0

Legend:

- Black - Black Text: Continuing projects or projects carried forward from the FY 19 CIP
- Orange - Orange Text: Projects to be completed or cancelled in FY 2019
- Green - Green Text: Projects in the Construction phase
- Blue - Blue Text: New projects proposed for the FY 20 CIP
- * - Column A: Actuals spent through prior year + planned expenditures in current year

Project Driver:

- A. Regulatory requirements
- B. Repair or replacement of aging infrastructure
- C. District commitment (SCW, FAHCE)
- D. Water Utility Master Plan "No Regrets"
- E. Board Policy
- F. Discretionary projects as directed by the Board

of B&G Projects

0
1
0
0
0
4
5

Funded by Legend:

- W-2 - North Zone; revenue is allocated based on % of benefit to the zone
- W-5 - South Zone; revenue is allocated based on % of benefit to the zone
- CSC - funded by revenue from Clean Safe Creeks program
- SCW - funded by revenue from Safe Clean Water program
- PT - funded by revenue from Property Tax
- Subvent - funded by State Subventions

PRELIMINARY FY20 - 24 CIP

Information Technology Projects

Revenue Source: Groundwater Charges, Property Tax

PRELIMINARY CIP

FY 2020 5-Year CIP Data

Project Category	FY 19 Priority	Number	Project Name	A	B	A + B		Change from FY19	Project Phase (FY20)	Funded By	WUE %	WSS %
				Actual/ Appropriated thru FY19*	Remaining Cost to Completion	FY20 Plnd Expnd	FY20-34 Project Value					
FY 2020 - 2024 CIP												
	44	73274010	Boardroom Technology Upgrade	819	0	0	819	0	closing	PT/W-2/W-5	65%	35%
F	34	73274009	Data Consolidation	176	176	86	352	(671)	Construction	PT/W-2/W-5	65%	35%
F	56	73274011	E-Discovery Management System	521	31	31	552	7	Construction	PT/W-2/W-5	65%	35%
B,E	46	73274001	IT Disaster Recovery	1,280	1,149	1,149	2,429	474	Construction	PT/W-2/W-5	65%	35%
B	63	73274002	ERP System Implementation	7,428	10,043	4,876	17,471	(1,425)	Construction	PT/W-2/W-5	65%	35%
B	42	73C40406	Telephone System Voiceover IP	0	1,211	1,083	1,211		Plng/Des/Const	PT/W-2/W-5	65%	35%
	63	73274007	Vena Software Implementation	1,157	0	0	1,157	0	closing	PT/W-2/W-5	65%	35%
B	54	73274008	Software Upgrades & Enhancements	2,403	15,171	786	17,574	(694)	Des/Const	PT/W-2/W-5	65%	35%
B	46	95274003	WTP-WQL Network Equipment	2,723	9,628	184	12,351	(434)	Construction	PT/W-2/W-5	100%	0%
Information Technology Total:				14,531	37,409	8,195	51,940	(2,963)				

Validated - Unfunded Projects

None	-	0	0	0	0
Validated - Unfunded Total:		0	0	0	0

Legend:

- Black - Black Text: Continuing projects or projects carried forward from the FY 19 CIP
- Orange - Orange Text: Projects to be completed or cancelled in FY 2019
- Green - Green Text: Projects in the Construction phase
- Blue - Blue Text: New projects proposed for the FY 20 CIP
- * - Column A: Actuals spent through prior year + planned expenditures in current year

Project Driver:

- A. Regulatory requirements
- B. Repair or replacement of aging infrastructure
- C. District commitment (SCW, FAHCE)
- D. Water Utility Master Plan "No Regrets"
- E. Board Policy
- F. Discretionary projects as directed by the Board

of IT Projects

A	0
B	4
C	0
D	0
E	0
F	2
Total	6

PRELIMINARY FY20 - 24 CIP

Information Technology Projects

Revenue Source: Groundwater Charges, Property Tax

PRELIMINARY CIP

FY 2020 5-Year CIP Data

Project Category	FY 19 Priority	Number	Project Name	A	B	A + B		Change from FY19	Project Phase (FY20)	Funded By	WUE %	WSS %
				Actual/ Appropriated thru FY19*	Remaining Cost to Completion	FY20 Plnd Expnd	FY20-34 Project Value					

Values last updated: 12/24/18 (All values are in thousands)

Funded by Legend:

- W-2 - North Zone; revenue is allocated based on % of benefit to the zone
- W-5 - South Zone; revenue is allocated based on % of benefit to the zone
- CSC - funded by revenue from Clean Safe Creeks program
- SCW - funded by revenue from Safe Clean Water program
- PT - funded by revenue from Property Tax
- Subvent - funded by State Subventions

CIP GRAND TOTAL: 1,342,185 3,881,694 358,245 5,223,879 1,375,148

PROJECT DRIVER TOTALS: 8 28 24 0 7 10 77

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File No.: 18-1085

Agenda Date: 1/3/2019
Item No.: 3.4.

COMMITTEE AGENDA MEMORANDUM

Capital Improvement Program Committee

SUBJECT:

Anderson Dam Improvements Update.

RECOMMENDATION:

Receive and discuss information regarding updates of Anderson Dam Improvements.

SUMMARY:

The purpose of this agenda item is to present an update on the Anderson Dam Seismic Retrofit Project (Project) construction schedule.

Project Background

District staff initiated the Project in 2012 to address seismic deficiencies at the dam and meet the Federal Energy Regulatory Commission's (FERC) and the California Department of Water Resources, Division of Safety of Dams' (DSOD) current standards. The Project's planning phase was completed in 2013, with 60% design work completed in April 2018. The 90% design continues along with preparation of the environmental documents and permitting efforts. If all necessary permits are secured in a timely matter, the Project's construction will begin as early as the summer of 2020.

On October 23, 2018, staff presented proposed construction schedules for Anderson Dam and Calero Dam seismic retrofit projects to the Board for information only. The proposed schedules had start of CDSRP and Anderson Dam Seismic Retrofit Projects in 2021 and 2022, respectively. These schedules were developed to address the water reliability issues discussed above, under the assumption that there was no other way to provide the necessary water supply reliability. Staff continues to evaluate raw water supply options during the construction of these projects and will provide a recommendation to the Board to properly prioritize the dam construction schedules as the permitting phases for both projects progress, and a more determinate timeline for the beginning of construction for each project is known.

Recent Developments

Recent discussions during informal consultation with the National Marine Fisheries Service (NMFS) and Regional Water Quality Control Board (RWQCB), indicate that both regulatory agencies consider the scope of the permitted activities for the project to extend beyond construction, into post construction operation. District staff expects that the permitting phase of the project may be impacted if permitting activities include post construction operation. As a result, the project planned

construction start date could extend beyond 2020 into 2021.

During the District's bi-annual trip to Washington D.C. the week of November 12th, 2018, District staff met with FERC (Federal Energy Regulatory Commission) to advise the Commission of this potentially protracted permitting effort and request assistance in the permitting process and working with NMFS. Although FERC agreed that the scope of NMFS regulatory action for the project coincides only with activities associated with the retrofit of the dam, and not to post construction operations, FERC is unable to provide regulatory relief with NMFS and RWQCB. As a result, District staff continues to analyze potential project impacts as the result of NMFS and RWQCB position to include post construction operation within permitting requirements. In addition, both FERC & DSOD have been briefed on the alternative construction schedules as it relates to water supply reliability and advancing Calero.

Due to potential permitting impacts, FERC has requested that an analysis be prepared to address the life safety impacts that potential alternative construction schedules will have compared to the currently projected March 2020 construction start date for Anderson Dam. Based on these analyses, FERC may deem it necessary to require additional actions and/or mandates on the current operation of Anderson Reservoir. These actions and/or mandates could include restricting the capacity of Anderson Reservoir.

District Staff Next Steps

The Anderson Dam Seismic Retrofit Project team has been working with projects teams for both the Fisheries and Aquatic Habitat Collaborative Effort (FAHCE) and Mid-Coyote Flood Protection Projects to develop a global permitting approach for all three projects. To address the concerns brought forward by NMFS and RWQCB, key technical, management and executive management staff will be collaborating in a special strategic permitting meeting over December 6th and 7th. These two days will help to advance formal consultation and help to minimize project schedule impacts. Additionally, monthly coordination meeting between the project teams and internal and external legal counsels have been scheduled.

ATTACHMENTS:

None

UNCLASSIFIED MANAGER:

Christopher Hakes, 408-630-3796

File No.: 18-1086

Agenda Date: 1/3/2019

Item No.: 3.5.

COMMITTEE AGENDA MEMORANDUM

Capital Improvement Program Committee

SUBJECT:

Capital Consultant Agreements and Amendments.

RECOMMENDATION:

Receive information on upcoming consultant agreements and/or amendments that staff will be recommending for Board approval and provide direction as needed.

SUMMARY:

At the March 28, 2017 meeting, the Board of Directors approved revising the CIP Committee's purpose to include monitoring implementation progress of key projects in the CIP. Consistent with this, the Committee has requested that staff provide regular updates on new consultant agreements and planned amendments to existing consultant agreements.

Staff anticipates recommending Board approval of four consultant agreements and amendments or budget adjustments within the next few months. A brief description of these recommended upcoming Board items are as follows:

1. **Lenihan and Stevens Creek Dam Safety Evaluations, Project No. 91084019.** The Santa Clara Valley Water District intends to award to GEI Consultants, Inc. an agreement with expiration on January 31, 2022 for Engineering Services in the amount of \$2,453,283 for the seismic and safety evaluation of Lenihan and Stevens Creek Dams.

Lenihan Dam was constructed as a rolled earthfill structure in 1952. Because of its proximity to highly developed areas, economic loss or loss of life could be excessive in the event of catastrophic failure. As a result, the dam is classified as a "large" dam with a "high" hazard potential.

An assessment of the dam following the 1989 Loma Prieta earthquake, indicated that the dam's crest had settled about 2-1/2 feet since the construction of the dam in 1952. The settlement appears to be a combination of long-term consolidation of the dam embankment and earthquake-induced displacements. The loss in the dam's freeboard resulting from the settlement of the dam's crest was restored in 1996.

The 120-foot tall Stevens Creek Dam was constructed as a rolled earthfill structure in 1935 above the cities of Mountain View, Sunnyvale, and Cupertino. Because of its proximity to highly developed areas, economic loss or loss of life could be excessive in the event of catastrophic failure. As a result, the dam is classified as a “large” dam with a “high” hazard potential.

In April 2017, the Governor of California ordered detailed evaluations of large spillway structures at all high-hazard dams, including at Lenihan and Stevens Creek dams. This Project will include detailed spillway condition assessments, updated Probable Maximum Flood (PMF) studies, Potential Failure Mode Analysis (PFMA), and a Supporting Technical Information Document (STID) for the two dams included in this Project. The District believes an Independent Dam Safety Review (IDSR) will help identify other critical needs and deficiencies relevant to the two dams. The IDSR will include the PFMA workshop and inspection report, and updates to the STID.

Under this Agreement with the District, GEI Consultants will collect preliminary data, conduct comprehensive spillway condition assessments and PMF studies per HMR 58/59 to address the adequacy of the spillway and freeboard capacity. The Consultant will also conduct a geotechnical/geologic field investigation to develop feasible spillway improvement alternatives if necessary; conduct an IDSR, which includes the PFMA Workshop, and IDSR reports with recommendations to address identified deficiencies; prepare a STID; inspect dam outlets; and perform supplemental engineering services as follow-up to recommendations in the IDSR reports.

2. On-Call Surveying and Mapping Services (Multiple project numbers).

Staff is planning to recommend the Board to award an agreement to R.E.Y. Engineers, Inc. for a term of three (3) years in the amount of \$1.5 million to supplement the Land Surveying and Mapping Unit (LSMU) efforts by performing survey work.

In the last three years, the District’s Land Surveying and Mapping Unit (LSMU) has administered an on-call agreement to assist in completing work in excess of staff capacity. The current on-call agreement will expire on December 10, 2018. The not-to-exceed fee of the current on-call agreement is \$1,500,000 and \$1,334,773 has been expended. The new on-call agreement will allow supplemental resources to ensure land surveying and mapping services are provided timely, during high demand periods, to support District operations and capital improvement projects.

The scope of work for this agreement includes: preliminary and design level surveying for topographic field surveys, expansion of project control, preparation of photogrammetric base maps, LiDAR surveys, bathymetric surveys, 3D scanning, the establishment of control networks for design, design-level data surveys, and construction support topographic land surveying. The scope of work will also include cadastral surveys, performing cadastral recovery and field ties, providing right of way services, establishing monuments for the right of way, and preparing record of survey.

3. **Calero Dam Seismic Retrofit - Amendment No 4 to Agreement No A3902G with HDR Engineering, Inc. for Design Consultant Services Project No 91874004.** Calero Dam and Reservoir are currently subject to operational restrictions of 54% of the full reservoir capacity, as agreed to by the District and the California Division of Safety of Dams (DSOD), due to seismic stability concerns with the dam and concerns surrounding Fellows Dike, located at the upstream end of the reservoir. The full reservoir capacity will be restored upon completion of the project.

Agreement A3902G with HDR Engineering, Inc. (Consultant) is for Design of the Project which is currently at 60%, and includes scope to complete design documentation and prepare the construction plans, specifications, and cost estimates for the Project.

Amendment No. 4 to this Agreement will increase the not-to-exceed fee by \$975,000, bringing the Agreement's total not-no-exceed fee to \$10,360,209. The additional fee is required to perform additional geotechnical investigations, prepare additional design documentation, including, but not limited to, relocation of the historic Bailey Fellows House located near Fellows Dike, and increase available funds for Supplemental Services.

ATTACHMENTS:

None

UNCLASSIFIED MANAGER:

Chris Hakes, 408-630-3796
Ngoc Nguyen, 408-630-2632
Katherine Oven, 408-630-3126
Ashu Tikekar, 408-630-2424

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File No.: 18-0737

Agenda Date: 1/3/2019
Item No.: 3.6.

COMMITTEE AGENDA MEMORANDUM

Capital Improvement Program Committee

SUBJECT:

2018 and 2019 Capital Improvement Committee Work Plans.

RECOMMENDATION:

Review the 2018 and 2019 Capital Improvement Program Committee Work Plans and make revisions as necessary.

SUMMARY:

Work Plans are created and implemented by all Board Committees to increase Committee efficiency, provide increased public notice of intended Committee discussions, and enable improved follow-up by staff. Work Plans are dynamic documents managed by Committee Chairs and are subject to change. Committee Work Plans also serve to assist to prepare an Annual Committee Accomplishments Reports.

The 2018 Capital Improvement Program Committee Work Plan is contained in Attachment 1. The 2019 Capital Improvement Program Committee Work Plan is contained in Attachment 2. Information in this Plan document was provided by staff as follows:

Discussion of topics as stated in the Plan have been described based on information from the following sources:

- Items referred to the Committee by the Board;
- Items requested by the Committee to be brought back by staff;
- Items scheduled for presentation to the full Board of Directors; and
- Items identified by staff.

ATTACHMENTS:

Attachment 1: 2018 CIP Committee Work Plan

Attachment 2: 2019 CIP Committee Work Plan

UNCLASSIFIED MANAGER:

Michele King, 408-2630-2711

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CIP Committee 2018 Workplan

		<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>		
CIP Implementation														
10 Year Pipeline	N o M e e t i n g			x		N o M e e t i n g								
Long Term Purified Water		x												
Public Private Partnership (P3) Delivery for capital projects														
So Co Recycled Water Pipeline					x									
Calero & Guadalupe Dams									x					
Safe, Clean Water Projects Implementation										x				
Regulatory Permits Coyote Watershed														
Presentation on Design-Build														
Project Labor Agreement														
Large Construction Projects - Lessons Learned														
Calero Dam Seismic Upgrade and Water Reliability Analysis												x		
Anderson Dam Improvements Update												x		
Capital Project Monitoring														
Construction		x					x			x				
Design			x					x			x			
Planning / Feasibility				x					x			x		
Upcoming Consultant Agreements and Amendments			x							x		x		
CIP Development														
Project Ranking Criteria										x	x	x		
Preliminary CIP											x	x		
Criteria for Ranking Stewardship Projects							x							
Project w/ Environmental Justice Prioritization Criteria								x						

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CIP Committee 2019 Workplan

	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>
<i>CIP Implementation</i>												
Public Private Partnership (P3) Delivery for projects												
Safe, Clean Water Projects Implementation			X									
Presentation on Design-Build	X											
Project Labor Agreement		X	X	X	X							
Large Construction Projects - Lessons Learned	X											
<i>Capital Project Monitoring</i>												
Construction	X			X			X			X		
Design		X			X			X			X	
Planning / Feasibility			X			X			X			X
Upcoming Consultant Agreements and Amendments												
<i>CIP Development</i>												
Project ranking criteria										X	X	X
Preliminary CIP											X	X

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