



INFRASTRUCTURE COMMITTEE

REGULAR MEETING

Tuesday, September 11, 2018 - 10:00 a.m. to 12:00 p.m.
1000 Main Street Cambria, CA 93428

AGENDA

- A. CALL TO ORDER
- B. ESTABLISH QUORUM
- C. CHAIRMAN'S REPORT

1. PUBLIC COMMENT

Members of the public may now address the Committee on any item of interest within the jurisdiction of the Committee but not on its agenda today. In compliance with the Brown Act, the Committee cannot discuss or act on items not on the agenda. Each speaker has up to three minutes. Speaker slips (available at the entry) should be submitted to the District Clerk.

2. PRESENTATIONS

- A. District Engineer Gresens to Give Presentation on GIS System

3. CONSENT AGENDA

- A. Consideration to Approve the August 7, 2018 Regular Meeting Minutes

4. REGULAR BUSINESS

- A. Welcome Donn Howell to the Infrastructure Committee
- B. Discussion Regarding using Influent Screen Installation Project as a Pilot Case for the CIP Policy/Practices and Procedure Plan
- C. Discussion and Consideration Regarding CIP Policy, Practices and Procedure Plan Document
- D. Discussion and Consideration of Integrated Updated CIP Sheet
- E. Discussion and Consideration Regarding Asset Management Cost

Estimate and How to Manage District Assets

- F. Discussion Regarding Expanding the Infrastructure Committee to Eight (8) Members
- G. Update on PG&E Work Being Done at the Wastewater Treatment Plant

5. FUTURE AGENDA ITEMS

6. ADJOURN



INFRASTRUCTURE COMMITTEE

REGULAR MEETING

Tuesday, August 7, 2018 - 10:00 AM to 12:00PM
2850 Burton Drive Cambria CA 93428

MINUTES

A. CALL TO ORDER

Chairman Bahringer called the meeting to order at 10:03 a.m.

B. ESTABLISH QUORUM

A quorum was established.

Committee members present: Jim Bahringer, Karen Dean, Mike Lyons and Harry Farmer.

Committee members absent: Muril Clift (resigned).

Staff present: District Engineer Bob Gresens, Management Analyst Melissa Bland and Deputy District Clerk Haley Dodson.

Public present:
Cheryl McDowell
Cindy Steidel
Crosby Swartz
Laura Swartz
Paul Nugent
John Martinez
Tom Laycook
Gordon Heinrichs
Donn Howell
Paul Reichart

C. CHAIRMAN'S REPORT

Chairman Bahringer announced he needs leave at 10:15 a.m., but Vice Chair Dean will run the meeting.

1. PUBLIC COMMENT

Public Comment:

Donn Howell: rate increase questions. Highly recommends the Board direct staff to conduct additional wastewater tours.

Gordon Heinrich: Information about the SWF, needs information on change orders.

District Engineer Bob Gresens responded that this information is on the webpage.

Public Comment:

Paul Reichart: we really don't know what's going on with the collection system. He has a copy of the five-year current program for the county. The committee should review it. The district needs to do an assessment of all facilities first. My firm has done almost all the work in this report. Staff can't do the initial assessment. They need to hire a professional.

2. CONSENT AGENDA

A. Consideration to Approve the May 30, 2018 Special Meeting Minutes and May 30, 2018 and June 13, 2018 Regular Meeting Minutes

Committee Member Farmer stated the minutes were great.

Committee Member Lyons moved to approve the meeting minutes.

Chairman Bahringer seconded the motion.

The motion was approved: 4-Ayes (Lyons, Bahringer, Dean, Farmer) 0-Nays, 1-Resigned (Clift)

Chairman Bahringer left the meeting at 10:18 a.m.

3. REGULAR BUSINESS

A. Discussion of Pages 6-9 from the July 11, 2018 Special Meeting Agenda Packet and How to Proceed with a Capital Improvement Plan (CIP) and CIP Policy/Practices and Procedure Plan

Vice Chair Dean stated at the joint committee meeting they discussed doing a CIP policy, practices and procedure plan. David Pierson asked us to form a subcommittee. We formed a subcommittee and it includes myself, Mike Lyons and Cindy Steidel. At the first subcommittee meeting, we went over the list and came up with a CIP document that's included in today's agenda packet. Our intention is to give the public visibility, transparency and gain their trust. The district needs accountability on projects and money. We created a sample form (attached) that includes things that can be done internally, risks are if these projects are delayed and assigning a project number and account number.

Public Comment:

Cindy Steidel: the new accounting system would have a little more flexibility. The intent with assigning a project number would be an identity. The account number would be assigned once the project was approved and a budget was assigned to it, and it would track cost through the process and at the end of the project the account number would be shut down.

Mr. Gresens responded that staff can add these fields and get these up-to-date.

Mrs. Bland stated it's a stand-alone system for planning purposes only.

Vice Chair Dean stated we only had one chance to meet on this and would like to meet with staff, as this requires staff cooperation. Are you okay using the influent screen as the first project?

Mr. Gresens responded yes, but they are working on deadlines this month.

Public Comment:

Laura Swartz: enterprise fund is extremely crucial and what other enterprise will benefit greatly from it.

Mr. Gresens asked for an example.

Laura Swartz didn't answer.

Public Comment:

Paul Reichart: if you make an improvement to the SWF and it is taking waste and treating it, it's crossing lines of both funds.

Mr. Gresens responded that he doesn't understand Laura's question. We have capital account codes and separate account codes for capital wastewater. We also have separate enterprise account codes related to operations.

Public Comment:

Laura Swartz: you work on the Wastewater plant and spend a lot of money to pump clearer water, making the SWF more efficient, but the cost isn't showing what the SWF is costing us. If we are spending money in this enterprise fund, how is it benefiting the other?

Committee Member Lyons stated the Finance Manager would assign a value to each enterprise fund.

Public Comment:

Paul Nugent: quantify the value of the Wastewater to the SWF?

Laura Swartz: we are spending money here, but it's working for the other one.

Crosby Swartz: question on the forms approval process, is there a way to show that someone signed off on it physically or electronically and it's no longer a draft project?

Vice Chair Dean stated after receiving feedback from the Finance and Infrastructure Committees, the Finance Committee would present the Board with the project they would like to start working on and the Board would direct staff to handle it.

Public Comment:

Crosby Swartz: the form should be marked as a draft copy with a date, and it would distinguish it from later revisions.

Paul Reichart: a form like this isn't unusual.

Vice Chair Dean stated this is a suggested procedure and they didn't have a chance to sit down with Jerry and staff to see what their cooperation would be on this. This is being presented for public input, committee input and Bob's input. The influent screen gives us the opportunity to start this process. We need to do an inventory and condition of our assets and the cost to replace them.

Public Comment:

Paul Reichart: the world is getting more technology advanced. He showed the committee a device with telephone, PC and Wi-Fi connection. These are hanging at wall at Wastewater plant. The feasibility tracking, assets and inventory all go into a database. Staff doesn't want to hear this, but it tracks staff and what they are doing. Staying in a cave man area allows agencies to be negligent and it's critical that they isolate valves.

Mr. Gresens responded that staff has a similar device that connects to smart phones and we can pull up valves, manholes, sewers, etc. It's a continuing improvement process.

Committee Member Lyons asked how to get the asset management plan going?

Public Comment:

Paul Reichart: it's time for the public to understand that we've done 20% of the inspections and since 2013 no one has looked at what improvements need to be made.

Gordon Heinrichs: mismanagement of spending money on projects. You're lumping money in different baskets.

John Martinez: exercising valves why haven't we done that? What's the excuse for not doing that. It's mismanagement 101.

Mr. Gresens responded that we will have a Water Department staff member attend the meeting and explain that.

Vice Chair Dean stated we tried to have Jason Buhl attend but he had to fix two water leaks that day.

Committee Member Lyons stated there was 161 photographs of projects completed over the last three years on display at the July 26th board meeting. Don't tell me that things haven't been done. I don't agree that CCSD has dropped the ball on infrastructure.

Public Comment:

John Martinez: I can take pictures of the last three years of what I done. I've worked for companies that execute, plan, complete the plan and put out fires. It's not that I don't think that Bob and these ladies here haven't worked their tails off, we appreciate them. Their way of doing things is to go along and put out fires. The water plant morphed from a million to 13 million is an example of mismanagement. The 161 pictures don't tell me it's managed well. I don't want to give money to someone who doesn't know how to spend it.

Vice Chair Dean stated I'm not happy that things haven't been done, but we didn't have the money.

Public Comment:

Cheryl Dowell: find out exactly what repairs are needed, what if an earthquake happens.

John Martinez: is our system roughly the same age?

Laura Swartz: if money is passed for Wastewater, how do we guarantee where it's going to go? If the Wastewater department is going to get repaired, how do we make sure that money goes there?

Mr. Gresens responded that it was built in the late seventies, early eighties. Some areas are newer.

Vice Chair Dean responded that we are coming up with a plan for tracking money.

Committee Member Farmer asked how the monies from the current rate increase have been spent? We haven't got an accurate accounting of that. If we knew that, the public may have more confidence of how the money has been spent. We haven't been doing a good job tending to the needs of the Wastewater Plant.

Public Comment:

Cindy Steidel: the reality is it's going to come down to money and resources.

Cheryl McDowell: I'd like to see the finance and infrastructure committee set aside funds. Who knows if the leak at the Bluebird could have been prevented.

Mr. Gresens responded they found the leak when the river water resided. We knew there was a leak, we just couldn't figure it out where it was.

Vice Chair Dean asked how to come up with a cost for an asset management plan?

Mr. Gresens responded that we would have to do a request for proposal (RFP) and have the money in our budget.

Public Comment:

Paul Reichart: I can get rough estimates. I've run civil engineers for 25 years. I've worked with Bob on 30 projects over the last ten years and I've chose to not be on this committee because I've helped Bob. I'm a resource for you.

Committee Member Lyons stated a lot has been done with a very limited budget. It's not true that nothing has been done. He responded to Laura Swartz, how do we trust the CCSD to take our money and spend it based on where it was approved for? It comes in two parts: your water bill will show the additional increase in three different parts Water, Wastewater and SWF. You'll see where the funds get split out. The Finance Manager is going to stand up in a public meeting and say this is the money we collected, this is our expenses, and this is what we have left. The second is David Pierson said something extremely important at the last meeting, if people give us authority to collect more money, we promise it will be divided to three parts, we will stop spending money and we will tell you exactly where we spent it. The CCSD has the ability to roll back these rates. They will ask for your approval every step of the way and you'll have accountability and transparency.

Vice Chair Dean stated these two committees will try to make sure there's accountability and follow up on the projects. We need the money in the Wastewater department.

Committee Member Farmer stated over the past many years the board has caused a serious lack of trust among the majority of people in the community regarding decisions and how the money has been spent. One of the things we must do is regain trust. It's not going to happen overnight. We now have two standing committees, we terminated a lobbyist contract, and people need to understand we are trying the best to change how we operate and how the public sees the board and staff. When it was determined that there was a leak somewhere, everyone came to the conclusion it was in the wetlands adjacent to state park and Bob said I don't think so, and ultimately the leak wasn't there and it was at the bluebird. I wanted to commend Bob because we tend to beat up on Bob.

B. Discussion Regarding using Influent Screen Installation Project as a Pilot Case for the CIP Policy/Practices and Procedure Plan

Vice Chair Dean stated we need to have a decision on CIP policy/practices and procedure plan.

Committee Member Lyons stated the influent screen should be the first test project and our suggestions should be added to the excel spreadsheet. We should schedule a meeting with staff and bring it back to the committee for review.

Mr. Gresens stated he can do a PowerPoint on the GIS and include screen views. He would like to talk to Tyler Incode and see what they can provide us.

Public Comment:

Cindy Steidel: suggests we have a chance to touch base with Jerry Gruber in terms of what we want staff to do.

Vice Chair Dean moved to bring this item back to the meeting on September 11, 2018.

Committee Member Lyons seconded the motion.

The motion was approved: 3-Ayes (Dean, Lyons, Farmer) 0-Nays, 1-Absent (Bahringer), 1-Resigned (Clift)

Committee Member Farmer stated the public wants more specific information on what needs to be done. Bob, what would you say would be the best way to approach this and where do we need the funds and why.

Mr. Gresens responded we have our CIP list, which shows priorities and identifies risks if we don't move forward. There's potential serious fines from water board and emphasize what needs to be done.

Public Comment:

Tom Laycook: we need to educate the public on why we need these funds, and risks.

Committee Member Farmer stated the biggest risk of not getting a rate increase for Wastewater is we won't have the matching funds to work with PG&E. The water fund is fairly level, they are not in the deficit like Wastewater.

Public Comment:

Cindy Steidel: would caution to not ignore the water portion of it.

Vice Chair Dean asked Bob if they can get together to identify risks and discuss the presentation?

Mr. Gresens responded yes, when Jerry gets back.

Vice Chair Dean moved to use the influent screen as a pilot case for CIP policies and practices and working with Bob Gresens on the final language.

Committee Member Lyons seconded the motion.

The motion was approved: 3-Ayes (Dean, Lyons, Farmer) 0-Nays, 1-Absent (Bahringer) 1-Resigned (Clift)

C. Discussion and Consideration to Approve the 2018 Infrastructure Standing Committee Regular Meeting Schedule

Vice Chair Dean stated we will no longer hold meetings at the fire department. All future meetings will be held at the Vets Hall dining room.

Vice Chair Dean moved to approve the 2018 Infrastructure Standing Committee regular meeting schedule.

Committee Member Lyons seconded the motion.

The motion was approved: 3-Ayes (Dean, Lyons, Farmer) 0-Nays, 1-Absent (Bahringer) 1-Resigned (Clift)

D. Review Committee Structure and Discussion and Consideration to Nominate A New Committee Member To Fill the Vacancy Created by the Resignation of Muril Clift

Vice Chair Dean introduced this item and talked about filling the vacancy.

Committee Member Farmer stated that David Pierson contacted Donn Howell and he has agreed to be a member of this committee.

Chairman Bahringer returned to the meeting at 12:01 p.m.

Chairman Bahringer stated we may want to consider having more committee members. We will have the ability to form a subcommittee with three members, gather information and be more helpful to the staff and board. They would be able to do the ground work. At the next general meeting, I'll suggest some people are in favor of adding more citizen members, get additional volunteers and recommendations from the directors themselves.

Vice Chair Dean would like to see more citizens on the committee.

Committee Member Farmer stated our General Manager has met twice with Brent Patera and perhaps other people from PG&E at the Wastewater plant. There was a meeting in early June/July and a kick-off meeting on July 18th and we weren't notified of the kick-off meeting but was notified of the previous meeting, the day before but didn't tell us the time of the meeting. The fact the General Manager is getting together with the main guy and moving forward, it would be cool if the committee knew about it and be there to ask questions and get answers from the representative of PG&E. This is the most important thing that's happened at Wastewater in a long time. This isn't against our General Manager, but it would be great if all of us can be there instead of being filtered through our General Manager.

Vice Chair Dean stated if we all attended the meeting it would have to be noticed as a special meeting.

Chairman Bahringer stated the General Manager is responsible for the day-to-day operations and that is a day-to-day operation. Interfering in the day-to-day operations is against the policy.

Committee Member Lyons stated the General Manager should be able to attend preliminary meetings with PG&E and when it's time to get together with the committee, he will notify us.

Public Comment:

Gordon Heinrichs: That's stupid, you can't have one person dictating the information. We can't have it behind closed doors.

Committee Member Farmer stated this is a major opportunity to have PG&E involved. I feel more comfortable if one or two of us were present with the General Manager.

Committee Member Lyons stated we had PG&E present at an Infrastructure meeting. The General Manager involved all of us. I don't think we should be involved in preliminary meetings for presentations or phone calls.

Committee Member Farmer stated one of the reasons the energy watch became more involved is because Karen Dean and I were involved with that meeting. The more people involved the more likelihood things will move forward.

4. FUTURE AGENDA ITEMS

Committee Member Farmer thanked Gordon Heinrichs, Tom Laycook and Paul Nugent for attending the meeting and becoming more involved in the community. They attended my table talk and they are relatively new members of this community.

Vice Chair Dean thanked Committee Member Lyons and Cindy Steidel for their work on the forms.

The committee reached consensus to have the following future agenda items at the next meeting:

1. Bob's GIS slideshow presentation that he volunteered to give us.
2. Updated sheet to integrate their program with the subcommittee.

3. Get started on asset management idea, how to go about getting an estimate on cost. Handle on assets of district and how to manage them.
4. Board adopt policy on this is the type of form we use, and we can buy into concept and the board can move forward.
5. Expand committee to perhaps 8 and discuss.

5. ADJOURN

Committee Member Lyons adjourned the meeting at 12:18 p.m.

Vice Chair Dean seconded the motion.

The motion was approved: 4-Ayes (Lyons, Dean, Bahringer, Farmer) 0-Nays, 1-Resigned (Clift)

DRAFT

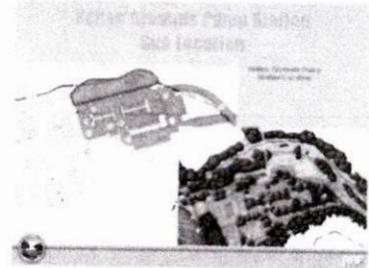
* SEE note below

Capital Improvement Plan

2008 thru 2012

Cambria Community Services District

Project #	1817
Project Name	Rodeo Grounds Pumping Station Replacement



Type	Improvement	Department	Water
Useful Life	40 years	Contact	District Engineer
Category	Utilities	Priority	1 Urgent Health Safety Need
Environmental:	IS MND	Consultant:	RBF Consulting
Coordination:		Project Manager	Bob Gresens

Description

This project will replace an existing pumping station located off the end of Rodeo Grounds Road at the CCSD water yard. The pump station is a critical component of the CCSD's water infrastructure and is a link between the District's lowest pressure zone and all of the remaining pressure zones within the community. Besides providing routine daily pumping operations, the new station will contain large capacity fire pumps that will augment fire storage at the Stuart Street tank facility during a major fire. The area served by the replacement pump station, including its fire pumps will include Lodge Hill, Park Hill, The Upper Pine Knolls area, as well as the main supply to the Leimert Tank.

Justification

The new replacement pumping station will contain fire pumps that will augment fire flows from gravity storage tanks, thus increasing fire flows into much of the water distribution system. Besides improved fire flow from a new station, the older pumping station needs to be replaced due to it being located in a flood zone, as well as a potential Tsunami inundation area. Besides its poor location, the existing station was likely installed during the 1950s and is now in need of replacement. Main electrical controls and switchgear are beyond their useful life and are also located in the same room as the pumps and exposed piping. Modern pmping station designs typically separate the high voltage switchgear from the pumping and piping systems as a safety measure to further promote worker safety. The new replacement station will have a separate electrical control room, and also install more energy efficient pumps and motors.

Expenditures	2008	2009	2010	2011	2012	Total
Planning/Design	375,000					375,000
Construction/CM		1,887,000				1,887,000
Total	375,000	1,887,000				2,262,000

Funding Sources	2008	2009	2010	2011	2012	Total
Water Replacement Fund	375,000	1,887,000				2,262,000
Total	375,000	1,887,000				2,262,000

Budget Impact/Other

The new station will result in less time being devoted to equipment failures and replacements.

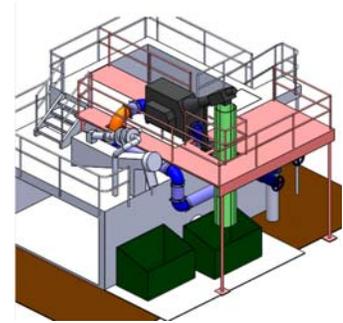
* this is a historical document from a past CIP project used as an example to develop an updated CIP plan document..

Capital Improvement Plan

Cambria Community Services District

2018 *thru* 2022

Project # 1849
Project Name WWTP Influent Screening System



Type Improvement
Useful Life 25 years
Category Equipment: Wastewater Plant
Environmental: Categorically Exempt
Coordination:

Department Wastewater
Contact Wastewater Department Supervi
Priority 3 Replacement/Hi Rate of Retur
Consultant: none
Project Manager District Engineer

Description

This project will augment an existing screenings grinder at the main inlet to the wastewater treatment plant (WWTP) with a new mechanically cleaned influent screen. The new screening equipment will remove screenings from the flow stream, which is much more effective at avoiding downstream impacts than the existing grinder system. The screen assembly includes an upper dewatering screw compactor and washer. Screenings are then discharged into a dumpster for disposal at a landfill.

The influent screen was originally planned approximately 10 plus years earlier, but did not advance due to funding limitations. It was pre-purchased during 2016, but did not advance any further due to a lack of funding. Design for its installation was completed during 2017 and it was bid at a proposed installation cost of \$338,000. This bid was rejected and District staff redesigned the installation to save costs by mounting it on top of an existing grit tank structure. A rebid of the revised installation occurred during 2018, which resulted in a bid of \$156,675 that was awarded to Brough Construction. The contractor has 120 days to complete the project, which is projected to have an end date of December 18, 2018.

Justification

The existing grinder-based system does not remove inert materials, which recombine in downstream processes causing clogged pipes and equipment. This leads to process and equipment failures along with costly emergency repairs and tank cleanings. The ragging that occurs with the current grinder system also blocks aerators, which increase power use by making the activated sludge process oxygen transfer far less efficient. Plugging of pipes and pumps resulting from the current grinding system can also contribute towards permit violations, increased staff time for repairs, burned out motors, and cause premature equipment replacements.

Expenditures	2018	2019	2020	2021	2022	Total
Construction/CM	164,509					164,509
Total	164,509					164,509

Funding Sources	2018	2019	2020	2021	2022	Total
Wastewater Replacement Fund	164,509					164,509
Total	164,509					164,509

Budget Impact/Other

The budgetted cost of \$164,509 includes a 5% contingency for potential change orders during construction. Plant operations will be impacted during installation of the new equipment due to the need for temporary bypasses and connections. Once installed, the new equipment will improve overall plant performance and reliability.

Capital improvement plan

A **capital improvement plan (CIP)**, or **capital improvement program**, is a short-range plan, usually four to ten years, which identifies capital projects and equipment purchases, provides a planning schedule and identifies options for financing the plan. Essentially, the plan provides a link between a municipality, and/or other local government entity and a comprehensive and strategic plan and the entity's annual budget.

Contents

Benefits
Features
Overall process
Specific steps

Benefits

A CIP provides many benefits including:

- Allows for a systematic evaluation of all potential projects at the same time.
- The ability to stabilize debt and consolidate projects to reduce borrowing costs.
- Serve as a public relations and economic development tool.
- A focus on preserving a governmental entity's infrastructure while ensuring the efficient use of public funds.
An opportunity to foster cooperation among departments and an ability to inform other units of government of the entity's priorities.

Features

The CIP typically includes the following information:

- A listing of the capital projects or equipment to be purchased
- The projects ranked in order of preference
- The plan for financing the projects
- A timetable for the construction or completion of the project
- Justification for the project
- Explanation of expenses for the project

Overall process

Prior to undertaking the development of the CIP, the government entity will want to define the criteria for what kind of projects or equipment are to be included and organize a process for developing the plan. What is defined as a capital project or capital purchase may vary from city to county to district to state depending on the size of the local government provisioning the plan. Generally, they will be tangible items that have a life expectancy greater than one year.

A local government will also need to forecast where it believes it will face future demands and growth, which will involve an inventory of existing facilities, infrastructure and equipment. In addition, a local government will want to develop basic policies for implementing the plan. Because the CIP includes financing issues, the municipality may want to seek advice from their financial advisor and/or bond counsel. A review of the municipality's current finances is also vital.

Once the CIP is finalized, the local government may be required to hold a public hearing before the plan is adopted by a governing board and/or a bond review commission.

Specific steps

- 1 Establish a capital planning committee with bylaws
- 2 Take inventory and prepare an assessment of existing capital assets
- 3 Determine projected life of existing and proposed assets.
- 4 Create an asset decommission policy and procedure.
- 5 Develop an asset maintenance procedure and procedure.
- 6 Develop an asset replacement policy and procedure.
- 7 Evaluate previously approved, unimplemented or incomplete projects
- 8 Assess financial capacity
- 9 Solicit, compile and evaluate new project requests
- 10 Prioritize projects
- 11 Develop a financing plan with a focus on creating a reserve account for asset replacement.
- 12 Adopt a capital improvement program.
- 13 Monitor and manage approved projects within the CIP
- 14 Update existing/ongoing capital programs

Suggested Procedure for Defining, Establishing and Executing a Capital Improvement Program Form

The intent of the CI Program Form is to provide:

- A. a budgeting mechanism for CIP review of high priority needs, including priority criteria description, justification, benefit, operational risk in delay or rejection to assist in evaluation;
- B. a follow-on traceability mechanism for approved CIP items during project execution;
- C. a consistent approach for review of CIP actions;
- D. and a cost mechanism for establishing an accounting linkage for project performance.

Suggested Process

1. CCSD staff develop CIP List, including out-year budget CIP projects for visibility
2. Present CIP List, associated CI Project forms, for high priority or high-risk projects to Infrastructure Committee for review and questions
3. Infrastructure Committee reviews CI Project forms with CCSD staff, and responsible department originator, regarding Project Description and Risk
 - a. Invite public for interaction and observation of review
 - b. Tour facility as necessary to understand need for Project
4. CIP List, reviewed CI Projects forms, with associated comments and recommendations, passed to Finance Subcommittee for financial/budget item review.
5. Finance Committee reviews CIP list and CI Project forms with associated Infrastructure Committee input. Finance subcommittee reviews financial estimates of subject CIP Project forms (internal and external work)
 - a. Invite public for interaction and observation of review
6. Results of Finance Committee review and recommendations are provided back to the Infrastructure Committee for information purposes, with request for concurrence with Finance Committee recommendations.
7. With concurrence and feedback from Infrastructure Committee, Finance Committee forwards recommendations of CIP, and associated CI Program Forms, to CCSD Board for budgeting consideration.
8. Upon acceptance by the CCSD Board, the board directs the CI Projects back to staff for formulation of finalized costing or bid directions, and performance timeline.
9. Any CCSD Board approved project is assigned financial Account Number, tied to the General Ledger for traceability of total/historic cost. The Account Number is recorded on the CI Program Form.
10. At the completion of any CI Project, the Project Account Number is closed with the financial accounting structure to prevent any costs recorded in error. The Account Number is not closed until an inventory of Project Purchase Orders or accounting period costs have been verified as recorded.

Recommendations Regarding CIP Policy/Practices and Traceability of Incurred Cost

Request that CIP Definition, Assessment, Estimate and Financial Recording processes be discussed at the upcoming Joint Infrastructure/Financial Subcommittee Meeting.

General Observations

The community continuously focuses on financial data, challenging individual incurred cost, and equates their lack of visibility to an expectation of inappropriate expenditure by CCSD. In some cases, lack of individual understanding of business financial structures/practices is the hurdle to overcome. In others, lack of the underlying decision-making process drives the challenges heard. Unfortunately, it manifests itself as a lack of visibility and lack of trust.

Watching the current CIP review, I believe there is a real opportunity to strengthen CCSD in its operating disciplines and decision making.

Snapshot of Suggested CIP Policy/Practices

1. Write and Establish Policies/Procedures for CIP Initiation and Execution relative to Budget Reviews, Incurred Cost, and Close-Out/Historic Records
2. Identify CIP using a Capital Improvement Project Request document (Assign CIP Project Number)
 - a. Define project need, assign priority, describe purchase/activity, timeline to execute, define potential risk if delayed, estimated cost, basis of estimate
 - b. During FY budget formulation, review by Subcommittees
 - c. By incorporation to finalized budget, move project request from preliminary to approved, assign a segregated account designation in the accounting system to allow for discrete cost tracking.
 - d. Additional procedures would be defined for emergency or priority shifts.
3. Manage CIP
 - a. Maintain a master list of all approved in-process CIP's as well as lower priority or future need projects. Review periodically for priority assignment or timeline changes
 - b. Document revisions to the approved CIP (recorded on the Initial Project Request form), including associated cost estimates.
4. Close out of completed CIP
 - a. Perform a review of the project including summary of any issues and total completed cost.
 - b. Consider a close out procedure for the accounting project so that costs won't inadvertently hit a completed Project.

Effective Implementation assumes:

1. Commitment to writing and establishing policies and procedures relative to CIP for Budget, Tracking and Completion
2. The new accounting system can accommodate assignment of cost segregation on a by project basis.
3. The CCSD is willing to assign the upfront definition and commitment to review, as well as assign appropriate responsibility for the periodic validation of the process (e.g., financial committee member review would be a possible method)
4. Project revisions and historic information is maintained within established procedures.

Benefits

Takes steps toward establishing community trust in decisions and practices

Less manual intense practices in data gathering and status related to CIP

Establishes an easily assessable point of record for awarded Grants to project

Provides estimating/incurred cost history for future CIP

Establishes a more rigorous decision making/change approval process

Establishes an historic reference and timeline for initial project definitions and evolution of changes

Provides immediate traceability and tracking of incurred cost against a CIP line item

Provides historic record of approved revisions and estimates of cost relative to revisions

**Cambria Community Services District
Capital Improvement (CI) Project Form**

Project Number:	_____
Account Number:	_____
Fiscal Year:	_____
Revision:	_____
Project Name:	_____
Project Manager:	_____
Date:	_____
Priority:	_____
Enterprise:	_____
Type:	_____
Category:	_____

Priority: _____
 Period of Performance: _____

Environmental Not Required Required _____
 Useful Life: New _____ Improve _____ Repair/Replace _____

Project Definition of Scope Internal External Both

Benefit/Justification

Operational Risk if Delayed

Estimated Cost	FY	FY	FY	FY	TOTAL
Planning/Design					
Construction					
TOTAL					
Basis of Estimate					
Funding Source					

Finalized Budgeted Cost	FY	FY	FY	FY	TOTAL
Planning/Design					
Construction					
TOTAL					
Basis of Estimate					
Funding Source					

Revisions: (second Page)

Wastewater CIP - Capital Improvement Program

Revised 9/05/2018

DRAFT - For Discussion Only

Line/Project No.	Expansion [X], Replacement [R] Operations [O]	% X	% R	% O	Priority Ranking	Budget Year	Projected										Check of total Total		
							1st Half		2nd Half		FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	FY24/25		FY25/26	FY26/27
							FY17/18	FY18/19	FY18/19	FY19/20									
Wastewater Projects																			
Wastewater Treatment Plant Projects																			
1	Influent screen, support platform design, & installation	R/O	20	80	1		\$ 164,509									\$ 164,509			
2	Design & install switch between WWTP's main incoming power transformer supply & existing MCC		20	80	1			\$ 75,000								\$ 75,000			
3	Incoming power supply monitoring & conditioning system (8/24/2018 EISpec Quote + 25K estimate to install)	R	20	80	2			\$ 61,105								\$ 61,105			
4	Neutral wire installation from PG&E-provided delta to wye main replacement transformer to main MCC	R	20	80	1			\$ 20,000								\$ 20,000			
5A	Replace WWTP main power supply breaker and auto-transfer switch; (or, do project 5B.)	R	20	80	1			\$ 30,000								\$ 30,000			
5B	Replace main incoming power Motor Control Center with Y-configuration supply; (or, do project 5A)	R	20	80	1			\$ 300,000								\$ 300,000			
6	WWTP Update BNR Modeling Update & Value Engineering (early half of FY)	X/R/O	20	20	80	1		\$ 40,000								\$ 40,000			
7	Aeration tank baffles, anoxic mixers, & ML recirc system (later half of FY)	R/O	20	80	1			\$ 40,000	\$ 80,000							\$ 120,000			
8	Automate aeration D.O. control system (CVs at air headers, press control @ main air header, new DO probes)	X/R/O	20	20	80	2		\$ 50,000	\$ 100,000							\$ 150,000			
9	Upgrade/replace aeration blowers	X/R/O	20	20	80	2		\$ 30,000	\$ 150,000							\$ 180,000			
10	Blower electrical room air filtration/conditioning for moisture & corrosion control		20	80	2			\$ 10,000								\$ 10,000			
11	Replace main WWTP backup power generator		20	80	2				\$ 200,000							\$ 200,000			
12	Replace digester catwalk handrailings (painting is not included, & is to be funded from 6032T, WWTP maintenance & repair)	R	20	80	1		\$ 45,000									\$ 45,000			
13	Cathodic protection replacements at digesters	R	20	80	3				\$ 10,000							\$ 10,000			
14	Plant non-potable 3W improvements & non-potable sprays for screw press		20	80	1			\$ 15,000								\$ 15,000			
15	Improve grit tank hydraulic capacity (placeholder, insert approx \$10K cost if needed)	X/R/O	20	20	80	1										\$ -			
16	Repair or replace protective surge tank for plant effluent pipeline		20	80	2			\$ 25,000								\$ 25,000			
17	Long-term plant upgrades - new sludge digester, flow equalization improvements, denite/phosphorous removal		20	80	3				\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 1,500,000			
18	Demo and remove old flow equalization tanks in SW corner of plant				100	3		\$ 40,000								\$ 40,000			
19	Replace effluent pump (southern pump)		20	80	1			\$ 25,000								\$ 25,000			
20	Annual electrical & instrumentation improvements	X/R/O	20	20	80	2		\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 360,000			
21	SCADA System - WWTP - long-term improvements	X/R/O	20	20	80	2		\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 225,000			
22	Effluent P.S. bypass piping		20	80	1			\$ 20,000								\$ 20,000			
23	Misc WWTP lab upgrades & investment in electronic self-monitoring reporting			20	80	1		\$ 10,000	\$ 10,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 41,000			
Collection System Projects																			
24	SCADA System - Collections System - long-term improvements	X/R/O	20	20	80	2		\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 225,000			
25	Collection System smoke testing				100	2		\$ 50,000								\$ 50,000			
26	Annual manhole inspections and report on needed corrections (approx. 20% of system/yr)				100	2		\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 200,000			
27	Collection System Phased televising & cleaning	R/O			100	2		\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000			
28	Collection System Assessment software (E.g, t4 Spatial or other)				100	2		\$ 10,000								\$ 10,000			
29	Collection System Assessment/engineering for repairs				100	2		\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 150,000			
30	Collection System Repairs to reduce I/I & damaged pipe sections				100	2		\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 450,000			
31	Manhole raising due to street overlays & roadway work		20	80	1			\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 90,000			
32	Lift Station A (Nottingham & Leighton/Park Hill) new control panel at grade el.	X/R/O	20	20	80	1		\$ 10,000	\$ 80,000							\$ 90,000			
33	Lift Station A (Nottingham & Leighton/Park Hill) new submersible pumps, MCC, bypass piping	X/R/O	20	20	80	2				\$ 50,000	\$ 350,000					\$ 400,000			
34	Lift Station A-1 (Sherwood & Harvey/Marine Terrace) new control panel at grade el.	X/R/O	20	20	80	1		\$ 60,000								\$ 60,000			
35	Lift Station A-1 (Sherwood & Harvey/Marine Terrace) submersible pumps, MCC, bypass piping	X/R/O	20	20	80	2				\$ 40,000	\$ 225,000					\$ 265,000			
36	Lift Station 4 (DeVault Pl/Seacliff Estates) VFDs /new elect panel & 3 phase pump motors	R/O		20	80	3		\$ 25,000	\$ 60,000							\$ 85,000			
37	Lift Station B improvements (SR Creek/behind Park Hill) new control panel	X/R/O	20	20	80	1		\$ 30,000								\$ 30,000			
38	Lift Station B - new wet well, submersible pumps, and valve vault (placeholder)	X/R/O	20	20	80	1					\$ 300,000					\$ 300,000			
39	Lift Station B - replace existing generator	X/R/O	20	20	80	2		\$ 60,000								\$ 60,000			
40	Lift Station B-1 (Village Ln/Tin City) relocate away from Feb 2017 landslide area (potential 50% FEMA 406 funding)	X/R/O	20	20	80	1		\$ 300,000								\$ 300,000			
41	Lift Station B-2 (Wood Dr./E. Lodge Hill) new control panel at grade el.	X/R/O	20	20	80	1		\$ 75,000				\$ 35,000	\$ 315,000			\$ 425,000			
42	Lift Station B-3 (Green St./W. Lodge Hill) new control panel followed by future submersible pumps, MCC, bypass piping	X/R/O	20	20	80	2		\$ 90,000			\$ 160,000					\$ 250,000			
43	Lift Station B-4 (Green & Gleason/W. Lodge Hill) new submersible pumps, bypass piping	X/R/O	20	20	80	2				\$ 20,000	\$ 240,000					\$ 260,000			
44	Lift station 9 - replace corroded main incoming power breaker			100	1			\$ 8,000								\$ 8,000			
45	Replacement and New PCs for operators		20	80	2			\$ 10,000				\$ 10,000				\$ 20,000			
46	Annual maintenance and upgrading to GIS	R/O	20	80	3		\$ 5,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 95,000			
Vehicles and Trailer-Mounted Equipment																			
47	Vector truck - replace with new \$450K truck that meets emission requirements (10 yr loan @ 4.5%)		20	80	2			\$ 56,000	\$ 56,000	\$ 56,000	\$ 56,000	\$ 56,000	\$ 56,000	\$ 56,000	\$ 56,000	\$ 504,000			
48	Vehicle Replacement Program			100	3		\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 250,000			
49	Portable equipment replacement program (backhos, generators and pumps)				4		\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 150,000			
Overhead CIP Projects																			
50	Finance/billing software upgrade (wastewater est'd @ 50%)	R/O		20	80	3		\$ 25,000	\$ 50,000							\$ 75,000			
51	Contingency/reserves (amount remains TBD)	X/R/O	20	20	80	4										\$ -			

Total Per Year (all priorities)	\$ 45,000	\$ 209,509	\$ 970,105	\$ 1,936,000	\$ 969,000	\$ 809,000	\$ 1,974,000	\$ 574,000	\$ 784,000	\$ 469,000	\$ 219,000	\$ 8,958,614
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	\$ -	\$ 209,509	\$ 298,000	\$ 950,000	\$ 13,000	\$ 13,000	\$ 313,000	\$ 48,000	\$ 328,000	\$ 13,000	\$ 13,000	\$ 2,198,509
	\$ -	\$ -	\$ 597,105	\$ 821,000	\$ 586,000	\$ 496,000	\$ 1,361,000	\$ 226,000	\$ 156,000	\$ 156,000	\$ 156,000	\$ 4,555,105
	\$ 30,000	\$ -	\$ 60,000	\$ 150,000	\$ 355,000	\$ 285,000	\$ 285,000	\$ 285,000	\$ 285,000	\$ 285,000	\$ 35,000	\$ 2,055,000
	\$ 15,000	\$ -	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 150,000

Cummulative Total	\$ 45,000	\$ 254,509	\$ 1,224,614	\$ 2,190,509	\$ 3,159,509	\$ 3,968,509	\$ 5,942,509	\$ 6,516,509	\$ 7,300,509	\$ 7,769,509	\$ 7,988,509	\$ 8,958,614
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Regular Business Item 4.D. Attachment

Water Projects

Revised 9/05/2018

Preliminary costs need to be updated & tied to an ENR/year basis.

Expansion [X], Replacement [R], Operations [O] % X % R % O Priority Ranking Mid Year Budget Year Projected

Check of total

No.	Description	Expansion [X]	Replacement [R]	Operations [O]	Priority Ranking	Mid Year	Budget Year	Projected	FY 18/19 -		FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	FY24/25	FY25/26	FY26/27	FY27/28	
									FY16/17	FY17/18										
	Annual Inflation (Percentage)								3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
	Cumulative Inflation (Percentage)								103%	106%	109%	113%	116%	119%	123%					
Water Distribution System Projects																				
1	Water Master Plan Amendment (revised fire flow modeling/tank sizing check)	R/O/X			2						\$ 35,000								\$ 35,000	
2	Stuart Street Tank Replacement (125K gallon welded steel tank with new foundation)				2									\$ 458,000					\$ 458,000	
3	Water pipelines, pumps, and PRV repairs and replacements	R/O		100	2					\$ 25,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 475,000	
4	Piney Way erosion control protection for existing pipeline	O			100	3				\$ 10,000									\$ 10,000	
6	Study & predesign for pipeline in State Parks wetlands					3				\$ 30,000									\$ 30,000	
7A	Inspection & spot repair to water transmission main under S. Parks wetlands area; or do 7B		20	80		3					\$ 80,000								\$ 80,000	
7B	Lining of transmission main under S. Parks wetlands area (alt to relocate ~ \$612K to \$1.16 million), or do 7A		20	80		3					\$ 50,000	\$ 150,000	\$ 816,000						\$ 1,016,000	
8	Pressure zone 2 to zone 7 transmission main @ SR Creek pedestrian bridge		20	80		1				\$ 50,000	\$ 70,000								\$ 120,000	
9	Subzone metering of distribution system				100	1				\$ 50,000	\$ 50,000	\$ 50,000							\$ 150,000	
10	Pine Knolls - Iva Court zone 1 pipeline expansion	R/O	20	80		3					\$ 40,000	\$ 125,000							\$ 165,000	
11	Replacement of problematic service lines within Leimert					3				\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 100,000	
12	Water Meter Replacements & Upgrades	R/O		75	25	1				\$ 50,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000				\$ 1,050,000	
13	Annual GIS updating & upgrades	R/O			100	3				\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 100,000	
14	Valve Replacements					2				\$ 10,000	\$ 10,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 200,000	
15	Replacement of problematic service lines within Leimert					3				\$ 40,000				\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 100,000	
Water Treatment																				
16	Electronic self monitoring reporting program (yr 1 is software + consulting, yrs 2 + are annual tech support)				100	2				\$ 10,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 19,000
Tank & Booster Pump Station Projects																				
17	Rodeo Grounds Pump Station Replacement (aka Zone 2 Booster pump station)	R/X	20	80		2				\$ 15,000	\$ 10,000	\$ 101,000	\$ 500,000	\$ 400,000						\$ 1,026,000
18	SCADA System - Long-term Water Portion	R/O		50	50	3				\$ 10,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000						\$ 210,000
19	Electrical transfer switch and conduit to well SS-3	O			100	2				\$ 25,000										\$ 25,000
20	San Simeon well field generator replacement	R/O	20	80		2					\$ 100,000									\$ 100,000
Water conservation																				
21	Database for water conservation program/tracking with parcel links & APN file conversion	X/R/O	80		20	3				\$ 10,000	\$ 10,000									\$ 20,000
Vehicles & Trailer Mounted-Equipment																				
22	Replacement Dump Truck (alternative, a 76 K purchase with 6 yr loan @ 5% would be 13,000 per yr.)					1				\$ 76,000										\$ 76,000
24	Trailer Mounted Air Compressor	O		100		2				\$ 22,700										\$ 22,700
23	Trailer mounted, Vacuum Excavator	O		100		2				\$ 48,000										\$ 48,000
24	Vehicle Replacement Program					2				\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 250,000
Overhead Projects																				
25	Finance/billing software upgrade (water est'd @ 50%)	R/O		100		1				\$ 50,000	\$ 25,000									\$ 75,000
26	Contingency/reserves (amount remains TBD)	R/O		100		4														\$ -
27	User Fee study (water rates portion)	O		100		1														\$ -

						\$ -	\$ -	\$ 321,700	\$ 230,000	\$ 652,000	\$ 1,186,000	\$ 1,091,000	\$ 1,650,000	\$ 326,000	\$ 126,000	\$ 126,000	\$ 126,000	\$ 126,000	\$ 126,000	\$ 5,960,700
Priority Level						\$ -	\$ -	\$ 176,000	\$ 120,000	\$ 275,000	\$ 250,000	\$ 250,000	\$ 200,000	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,471,000
Priority Level						\$ -	\$ -	\$ 95,700	\$ 80,000	\$ 257,000	\$ 696,000	\$ 496,000	\$ 554,000	\$ 96,000	\$ 96,000	\$ 96,000	\$ 96,000	\$ 96,000	\$ 96,000	\$ 2,658,700
Priority Level						\$ -	\$ -	\$ 50,000	\$ 30,000	\$ 120,000	\$ 240,000	\$ 345,000	\$ 896,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 1,831,000
Priority Level						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
						\$ -	\$ -	\$ 321,700	\$ 551,700	\$ 1,203,700	\$ 2,389,700	\$ 3,480,700	\$ 5,130,700	\$ 5,456,700	\$ 5,582,700	\$ 5,708,700	\$ 5,834,700	\$ 5,960,700	\$ 5,960,700	\$ 5,960,700

SWF Projects

Revised 9/05/2018

Line/ Project	Description	Expansion [X], Replacement [R]			Priority Ranking	FY18/19 to FY27/28										Check of total	
		X	R	O		FY18/19	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	FY24/25	FY26/27	FY27/28			
Annual Inflation (Percentage)						\$	\$	\$	\$	\$							
Cumulative Inflation (Percentage)						3.0%	3.0%	3.0%	3.0%	3.0%							
SWF Projects																	
Regular Coastal Development Permitting Support																	
1	EIR consulting (follow up agency discussions to support the SWF's Regular CDP)		20	80	1		\$ 10,000										\$ 10,000
2	Section 7 ESA consulting, annual AMP report, & AMP update		20	80	1	\$ 125,000											\$ 125,000
3	Legal assistance for CEQA support and any subsequent appeals (amounts each year remain to be determined and are not shown)																
Interim, short-term SWF Modifications																	
4	Modifications to facilitate off-hauling RO concentrate, & addition of a flow meter at the AWTP.				1	\$ 50,000											\$ 50,000
Advanced Water Treatment Plant Improvements																	
5	Miscellaneous instrumentation / monitoring upgrades		20	80	1	\$ 10,000											\$ 10,000
Long-Term Improvement Modifications																	
6	Consulting assistance for coordination with Army Corps on WRDA grant (meetings, redefine work plan, & update scope of work)				2	\$ 20,000	\$ 20,000										\$ 40,000
7	Sems, Hach WIMS, or custom programmer for logging/reporting software and tablets (yr 1 is software/programming assistance)		20	80	2	\$ 6,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 22,000
8	Installation of remote sensing instrumentation at SS creek (needs access agreement with State Parks)		20	80	3	\$ 10,000											\$ 10,000
9	Future permanent mods at SWF for trailer fill station [transfer tanks, piping, & spill containment/loading pad] (1,2)		20	80	2	\$ 200,000											\$ 200,000
10	AWTP pull-barn style covers for outdoor equipment & control panels (1,2)		20	80	2	\$ 50,000											\$ 50,000
11	Surface Water Treatment Plant (SWTP) for Holding Basin and Well SS-1 treatment		20		80	3				\$ 150,000	\$ 600,000	\$ 600,000					\$ 1,350,000
12	Pipeline from Well SS-1 to surface water treatment plant (SWTP)		20		80	3					\$ 75,000	\$ 350,000					\$ 425,000
13	Impoundment basin conversion to groundwater storage, pump station at storage basin, and connecting pipelines		20		80	3					\$ 75,000	\$ 350,000					\$ 425,000
14	Solar Array System(1,2)				3	\$ 375,000											\$ 375,000
2017 Cease & Desist Order Compliance - Non-capitalized Expenses																	
15	Short term flood damage/CDO response - consultants for surveying, project mngt assistance& inspection, surface water hydrology & geohydrological		20	80	1												\$ -
16	Short term flood damage mitigation - drainage swale construction		20	80	1												\$ -
17	Short term flood damage mitigation - temporary closure plan equipment, installation, rentals, and temp power & controls				100	1	\$ 10,000										\$ 10,000
18	Hauling off the last 18-inches of impoundment water & emptied impoundment cleaning				100	1	\$ 35,000										\$ 35,000
Projects - noninflated \$/yr						\$ 175,000	\$ 46,000	\$ 32,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 267,000	
Priority Level 1 projects:						\$ 175,000	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 195,000	
Priority Level 2 projects:						\$ -	\$ 26,000	\$ 22,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 62,000	
Priority Level 3 projects:						\$ -	\$ -	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,000	
Priority Level 4 projects:						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Projects, levels 1 through 4)						\$ 175,000	\$ 221,000	\$ 207,000	\$ 209,000	\$ 211,000	\$ 213,000	\$ 215,000	\$ 217,000	\$ 219,000	\$ 221,000	\$ 267,000	

- Notes:
- Red font indicates future projects that may qualify for Army Corps project funding via the existing federal Water Resource Development Act (WRDA) grant. If approved by Army Corps, costs could become zero due to past local share cost credit (see note 2 below).
 - 1 Solar array estimated at 250 KW, & approximately \$1.50 per KW installed. Future candidate for Renewable Energy System Credit Transfer (RESCT), which could conceivably allow applying production towards remote CCSD electrical loads, such as WWTP.
 - 2 Cost shown do not include any reduction from a 75% federally-funded existing WRDA grant with the Army Corps and are subject to the terms of a project cooperative agreement. Costs shown do not include any local share credit of approximately \$3 million, which as previously approved by the Army Corps. The grant, as well as proposed cost components, need to be revisited with the Army Corps and incorporated into the Corps project management plan updating process.

Shading indicates the cells included within the CIP totals (i.e., totals do not include operational, non-capitalized costs nor potential future costs.)
 No shading indicates non-capitalized or too speculative to include within totals