



CARMEL AREA WASTEWATER DISTRICT

Regular Board Meeting

3945 Rio Road, Carmel, CA 93923

**May 30, 2019
Thursday
9:00AM**



CARMEL AREA WASTEWATER DISTRICT REGULAR BOARD MEETING MINUTES April 25, 2019

CALL TO ORDER - ROLL CALL - The meeting was called to order at 9:00 a.m.

Present: President: Ken White, Directors: Greg D’Ambrosio, Michael Rachel, Robert Siegfried and Charlotte Townsend

Absent: None

Others: Barbara Buikema, General Manager, Carmel Area Wastewater District (CAWD)
Rachel Lather, Principal Engineer, CAWD
Patrick Treanor, Plant Engineer, CAWD
Ed Waggoner, Operations Superintendent, CAWD
Chris Foley, Maintenance Superintendent, CAWD
Daryl Lauer, Collections Superintendent, CAWD
Domine Barringer, Administrative Assistant/Board Clerk, CAWD
Barry Blevins, Collection Worker III, CAWD
Mike Skinkle, Maintenance Mechanic II, CAWD
Trevor Holland, Lab Analyst/Environmental Inspector, CAWD
Robert Wellington, Wellington Law Offices, CAWD District Legal Counsel
Leo Laska, Director, Pebble Beach Community Service District (PBCSD)
Mike Niccum, General Manager, PBCSD
Jane Ipsen, CEO, Carmel Valley Manor
Maureen Wruck, Maureen Wruck Planning Consultants, LLC

APPEARANCES, ORDERS OF BUSINESS & ANNOUNCEMENTS

1. Appearances/Public Comments:

There were no Public Comments at the start of the meeting.

2. Agenda Changes:

President White requested that item #20 be moved up on the agenda just after the employee acknowledgments. President White also asked the Board to add an item to the agenda, regarding a letter concerning Ambulance service. The Board gave unanimous consensus to add this item.

There were no other agenda changes.

3. Employee Acknowledgements and Awards:

- California Water Environment Association (CWEA)- State Level
 - Barry Blevins- 1st Place as The Collections Worker of the Year
 - Mike Skinkle- 2nd Place Maintenance Technician of the Year
 - Trevor Holland- 2nd Place Lab Person of the Year
 - Ray DeOcampo – 2nd Place Source Control Person of the Year
 - Ed Waggoner- 25 years of CWA Service

Ms. Buikema said that CAWD did extremely well in placing at the State level competition this year. Barry Blevins achieved the number one spot at the State level as the Collection Worker of the year.

Ms. Buikema also recognized the achievements of Mr. Skinkle earning second place at the State level for Maintenance and Mr. Holland earning second place at the State level for Lab Person of the year. Mr. Waggoner stated Mr. DeOcampo achieved Second Place for Source Control at the State level. Ms. Buikema stated that CAWD is committed and focused on training employees to be the best. Finally, Ms. Buikema recognized Mr. Waggoner for more than twenty-five years of service for CWEA .

President White added that the Board is extremely proud of all their accomplishments.

RESOLUTIONS/ORDINANCES *(Item 20 on the agenda was moved up to the front of the meeting to accommodate guest in the audience who attended to make public comment.)*

20. Resolution No. 2019-15; A Resolution Authorizing The General Manager to Sign A Contract With Denise Duffy & Associates To Provide Environmental Review, Annexation Mapping, And Geographic Descriptions For LAFCO Annexation Process of Portions Of Carmel Valley and Carmel Highlands In An Amount Not To Exceed \$49,830.-
~~Engine Systems Integration-Report by Principal Engineer, Rachel Lather~~

Ms. Lather presented the staff report regarding annexation.

Ms. Lather said that there has been increasing interest in annexing to the District, specifically Carmel Valley Manor, Yankee Point, and Corona Road. Instead of annexing individually the District spoke with Local Agency Formation Commission (LAFCO) and the preference is to do one large annexation. LAFCO suggested working with Denise Duffy Associates because this organization has already done the 2016 annexation and would be at a reduced cost because the research has already been completed regarding these areas.

Ms. Buikema stated there will be a separate connection fee schedule for those annexed parcels and that is how the costs will be reimbursed.

Director Rachel asked, “what is the competitive environment regarding the Denise Duffy Associates proposal”? Ms. Lather responded that the proposal is \$50K, which is lower than before because a significant amount of the research had already been done in the previous annexation for CAWD.

President White opened the meeting for public comment.

Ms. Ipsen, Chief Executive Officer of Carmel Valley Manor stated that their organization approached CAWD approximately a year ago. Carmel Valley Manor is on a septic system and the Manor is fifty-six years old . It is time for Carmel Valley Manor to come off a septic system and move into CAWD’s sewer system and they are very supportive of making this change. The County is also very supportive of Carmel Valley Manor connecting to the CAWD sewer system.

Maureen Wruck, *Maureen Wruck Planning Consultants*, thanked the Board for bringing this item forward.

President White closed the time for public comment.

Board Action

Following a motion made by Director D’Ambrosio and seconded by Director Townsend, the Board unanimously adopted Resolution No. 2019-15.

President White requested that a Staff report be made for the new Ordinances:

Receive Principal Engineer Staff Report for Ordinances No. 2019-01,2019-02,2019-03:
Report by Principal Engineer, Rachel Lather

Ms. Lather stated that the staff report would summarize all three Ordinances for the Board’s review and adoption. These Ordinances are needed for State compliance requirements and need to be done prior to the Sewer System Management Plan update to show that CAWD has progressed on the Ordinances. The 2019-01 Uniform Plumbing Ordinances establishes the rules for the use of CAWD’s sewer system. Ordinance 2019-02 Standard Plans and Specifications provides guidance on how to implement the rules. 2019-03 Administrative Penalties Ordinance establishes the enforcement mechanism if the rules are not followed. Ms. Lather stated that the lateral replacement requirement will occur when a business or residence is sold and will be included with upgrades/remodel of \$50K or greater.

Mr. Lauer then said that to extend public outreach the following organizations have been contacted; The Realtors Association, City of Carmel-by-the-Sea, The City Council and staff, The County, Plumbers, and Home Inspectors. The enforcement will go into effect October 2019. CAWD is taking a proactive approach and asking for an inspection to move towards a maintenance free condition of the lateral line. Half of the spills that occurred last year at CAWD occurred due to roots

that were cut out into the District’s main line.

Ms. Buikema extended a “thank you” to the ad hoc committee contribution regarding this issue.

Director D’Ambrosio asked how the \$50K remodel was chosen? Mr. Lauer stated it was a benchmark target and allows CAWD to monitor the lateral conditions.

Director Rachel indicated that there might be some challenge involved regarding a non-related water remodel? Mr. Lauer stated that additional refinement may be needed for remodels . The ancillary benefit is that once the lateral has been brought up to code another inspection will not be needed for ten years.

Director Siegfried, asked how will CAWD be kept abreast of sales? Mr. Lauer stated the realtors and home inspectors need to be the driving force to ensure lateral compliance when selling or inspecting a home.

Director D’Ambrosio commented that the reason for a lateral inspection is an environmental approach Peninsula-wide.

Mr. Wellington stated the Staff report has been heard and that the Public Hearing should be opened. President White opened the Public Hearing at 9:34 am and closed it soon thereafter.

PUBLIC HEARING

Public Hearing was opened At 9:34 am or Soon Thereafter As The Matters May Be Taken Up.
Regarding three new Ordinances as they are interrelated.

ORDINANCES

Ordinance No. 2019-01; An Ordinance (1) Repealing Ordinance No.84 and No.91-06 Concerning Uniform Plumbing Ordinance of the Carmel Sanitary District, And (2) Adopting New and Revised Uniform Plumbing Ordinance of the Carmel Area Waste Water District-
Report by Principal Engineer, Rachel Lather

Board Action

Following a motion made by Director Siegfried and seconded by Director Rachel , the Board unanimously approved Ordinance No. 2019-01.

Ordinance No. 2019-02; An Ordinance Adopting New Standard Plans and Specifications-
Report by Principal Engineer, Rachel Lather

Director Rachel asked to go to page three of the staff report in the bottom paragraph the terminology used was” in order to reduce inflow...”. Ms. Lather stated it should read infiltration.

Board Action

Following a motion made by Director Townsend and seconded by Director D'Ambrosio , the Board unanimously approved Ordinance No. 2019-02.

Ordinance No. 2019-03; An Ordinance Adopting New Standard Plans and Specifications- of the Carmel Area Waste Water District– Report by Principal Engineer, Rachel Lather

Board Action

Following a motion made by Director Siegfried and seconded by Director Rachel, the Board unanimously approved Ordinance No. 2019-03.

Mr. Wellington stated that there is a typo in all three Ordinances. It is in the last paragraph which refers to the effective date and it references its own section but should be referencing the prior section. Ms. Lather stated this will be corrected.

The Public Hearing closed at 9:38 am

Reconvened Regular Board Meeting 4-25-19 immediately after the closing of The Public Hearing

CONSENT CALENDAR: APPROVAL OF MINUTES, FINANCIAL STATEMENTS AND MONTHLY REPORTS

Board Action

Following a motion made by Director D'Ambrosio and seconded by Director Townsend , the Board unanimously approved the Regular Meeting Minutes of March 28th, 2019, and enacted the following Consent Calendar items:

5. Approve Regular Board Meeting Minutes on March 28,2019
6. Receive and Accept Bank Statement Review by Hayashi Wayland – March 2019
7. Receive and Accept Schedule of Cash Receipts and Disbursements – March 2019
8. Approve Register of Disbursements - Carmel Area Wastewater District – March 2019
9. Approve Register of Disbursements – CAWD/PBCSD Reclamation Project – March 2019

10. Receive and Accept Financial Statements and Supplementary Schedules –
March 2019
11. Receive and Accept Collection System Superintendent’s -
January, February, & March 2019
12. Receive and Accept Safety And Regulatory Compliance Report-
March 2019
13. Receive and Accept Treatment Facility Operations Report –
January, February, & March 2019
14. Receive and Accept Laboratory/Environmental Compliance Report –
March 2019
15. Receive and Accept Capital Projects Report/Implementation Plan–
March 2019
16. Receive and Accept Plant Operations Report – March 2019
17. Receive and Accept Maintenance Projects Report – March 2019
18. Receive Principal Engineer Monthly Report General Engineering – March 2019

Ms. Lather stated the rate model will follow the engineering study. The order of items is because the two consulting teams must ensure that all information is provided in a manner that they need to determine the model. Ms. Lather stated that a review will occur with Staff and Board involved.

ACTION ITEMS BEFORE THE BOARD

Action Items consist of business which requires a vote by the Board. These items are acted upon in the following sequence: (1) Staff Report (2) Board Questions to Staff (3) Public Comments, and (4) Board Discussion and Action.

RESOLUTIONS/ORDINANCES

19. Resolution No. 2019-14; A Resolution Authorizing The General Manager to Execute A Professional Services Agreement in An amount Not to Exceed \$30,000 For an Evaluation of Gas Conditioning and Natural Gas Blending For Microturbines –Engine System Integration – *Report by Plant Engineer, Patrick Treanor*

Mr. Treanor stated that this project is budgeted for next fiscal year but the opportunity to start early presented itself. This is a study to gather information and criteria on potential requirements. The micro turbine system needs to be high functioning and fully utilized. There is a potential to increase gas production in the future with other waste streams and there are ancillary benefits due to increased sophistication of the technology over the past ten years and the use of pre-engineered skids to increase efficiency.

Board Action

Following a motion made by Director Siegfried and seconded by Director Rachel, the Board unanimously adopted Resolution No. 2019-14.

OTHER ITEMS BEFORE THE BOARD

21. Acronym Policy- *Report By Barbara Buikema, General Manager*

Ms. Buikema supplied a list of rules and guidelines for employees to use with respect to acronyms in District writing.

The Board made no modification and took no action.

Added agenda item: Ambulance Service:

Director Siegfried and Ms. Buikema attended a meeting at the firehouse at Rio Road last Thursday. The meeting covered the County Ambulance RFP and potential longer response times and “voluntary” mutual aid contracts.

President White mentioned that historically back in the mid 90’s regarding a similar issue in Carmel City and Carmel Mid Valley when they had their own consortium of ambulance services and an ambulance company came forward and stated they wanted to take the full county. The public is in favor of the current agreement to keep the public safe with local short response time.

President White stated there needs to be a letter with broad distribution about the Boards position prior to May 10th. Ms. Buikema will write a letter to the Chiefs on behalf of the Board.

INFORMATION/DISCUSSION ITEMS

22. *PBCSD 02-22-19 Regular Board Meeting - Report By Barbara Buikema, General Manager*

The report was informational only – no action required.

23. *Pension Committee Meeting 04-16-19- Report By Barbara Buikema, General Manager*

The report was informational only – no action required.

24. Sea Level Rise Committee Meeting Minutes 04-09-19-*Report By Barbara Buikema, General Manager*

Ms. Buikema stated the first meeting occurred on April 9th and it went very well. The consensus of this first meeting was the broad goal was to obtain a permit with no time limit, and obtain required reports and establish a series of triggers for Sea Level Rise (SLR), as well as obtain legal assistance, which is being done by Mr. Wellington. In addition, there was a discussion regarding cost sharing.

Ms. Buikema stated that the Coastal Commission has invited CAWD to “redline” their document. She is working toward setting up a second (SLR) meeting to list what CAWD and other partners want the agreement to say.

Director Siegfried has some concerns that the (SLR) was an ad hoc committee. Mr. Wellington stated that an ad hoc committee is a particular instance that will be resolved within a standard time frame. Mr. Wellington stated that the (SLR) ad hoc committee cannot be a standing committee of CAWD because it is comprised of other members that are not CAWD. Mr. Wellington continued that the ad hoc committee was setup for the purpose of a proposal for an interim coastal permit and once this is resolved a standing committee will be established for (SLR).

25. Lagoon Crossing Repairs –*Report By Patrick Treanor, Plant Engineer*

Mr. Treanor stated the Lagoon Crossing Repair was a great success. The execution of this project adhered to the environmental sensitivity of the project.

Mr. Niccum stated there is an outstanding issue regarding the cost share with PBCSD regarding this project. Currently, CAWD is waiting for a response from PBSCD.

26. General Manager-2nd Quarter Update –*Report By Barbara Buikema, General Manager*

Director Siegfried requested additional input from Ms. Buikema on page 141, “The County continues to hold that they are responsible to assist CAWD in finding grant funding”. Ms. Buikema stated the County is silent to the fact if CAWD does not get a grant and this topic flows into the General Managers report.

27. Update on Mr. Larsen’s Connection In Carmel Highlands

No comments were made

STAFF & BOARD MEMBER REPORTS

Staff Reports include items for which verbal reports/presentation will be provided. If a specific presentation is planned, it will be listed and summary information may be included with the Agenda. Brief oral reports may be provided for items arising after the Agenda preparation. The Board may wish to ask questions or discuss a staff report, but no action is appropriate other than referral to staff, or request that a matter be set as a future Agenda Item.

28. General Manager's Report - Oral Report by Barbara Buikema, General Manager

Ms. Buikema stated that CAWD did submit a written response to the Draft Environmental Impact Report (DEIR) for the Carmel River Floodplain Restoration & Environmental Enhancements (CRFREE). The County acknowledged that mitigation will be required because of potential damage to CAWD's pipeline because of CRFREE. CAWD does not have an agreement with the County and that is why a response to the draft DEIR was submitted to protect CAWD's rights.

29. Announcements On Subjects Of Interest To The Board Made By Members Of The Board or Staff - Oral reports or announcements from Board President, Directors or staff concerning their activities and/or meetings or conferences attended.

President White asked Mr. Waggoner what was the impact of the microturbine system being "offline" for three months? Mr. Waggoner stated biosolids have not been affected.

OTHER ITEMS BEFORE THE BOARD

25. Announcements On Subjects Of Interest To The Board Made By Members Of The Board or Staff - Oral reports or announcements from Board President, Directors or staff concerning their activities and/or meetings or conferences attended.

PBCSD Board Public Meeting Notice & Agenda—The next PBCSD meetings are scheduled for:
Friday, April 26, 2019 at 9:30a.m. *President White is scheduled to attend.*

Friday, ~~May 19~~, 2019 at 9:30a.m. *Director D'Ambrosio is scheduled to attend.*

Correction to meeting date Friday, May 31, at 9:30 am.

Reclamation Management Committee Meeting – The next RMC meeting is scheduled for:
Wednesday, May 8, 2019 at 9:30 a.m. *Director Townsend and Director White are scheduled to attend.*

Special Districts Association of Monterey County—The next SDA meeting is scheduled for:
Tuesday, ~~April 16~~, 2019 at 6:00 pm. *Director Townsend is scheduled to attend.*

Correction to meeting date is Tuesday, July 16, at 6:00 pm.

26. CLOSED SESSION

No closed session was scheduled or held.

27. ADJOURNMENT

*There being no further business to come before the Board, the President adjourned the meeting at **10:30 a.m.** The next regular meeting will be held at **9:00a.m., Thursday, May 30, 2019** or an alternate acceptable date, in the Board Room of the District Office, 3945 Rio Road, Carmel, CA 93923.*

Respectfully Submitted:

Domine Barringer, Board Secretary

APPROVED:

Ken White, Board President



HAYASHI | WAYLAND

INDEPENDENT ACCOUNTANTS' REPORT

May 22, 2019

To the Board of Directors
Carmel Area Wastewater District

We have performed the procedures enumerated below, which were agreed to by Carmel Area Wastewater District (CAWD), solely to assist you in connection with a determination as to whether there were differences in the Company's recorded cash disbursements and recorded cash receipts for the month of April 2019. CAWD is responsible for its cash disbursements and cash receipts records. This agreed-upon procedures engagement was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants. The sufficiency of these procedures is solely the responsibility of those parties specified in this report. Consequently, we make no representation regarding the sufficiency of the procedures described below either for the purpose for which this report has been requested or for any other purpose.

We have completed our review of your bank reconciliation for the Union Bank O&M account, the Union Bank payroll account and the Monterey County Sweep account. This service is limited in scope and is neither designed nor intended to deter or discover fraud, embezzlements or any other irregularities.

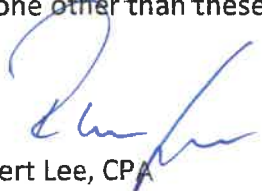
The procedures we performed and the associated findings are as follows:

- (1) We reviewed individual checks (or electronic images of individual checks or substitute checks). This procedure did not reveal any differences.
- (2) We examined the signatures on each check and compared them to a copy of the signature card on file with your bank to determine if the correct authorized people have signed the checks (we are not handwriting or forgery experts). This procedure did not reveal any differences.
- (3) We examined the payee on the check and matched it to the payee name appearing in your cash disbursements journal. This procedure did not reveal any differences.
- (4) We matched interbank account transfers. This procedure did not reveal any differences.



We were not engaged to and did not conduct an audit, the objective of which would be the expression of an opinion on the cash disbursements records or cash receipts records, accordingly, we do not express such an opinion. Had we performed additional procedures, other matters might have come to our attention that would have been reported to you.

This report is intended solely for the information and use of the Board of Directors of Carmel Area Wastewater District, and is not intended to be and should not be used by anyone other than these specified parties.



Robert Lee, CPA
Partner
Hayashi Wayland

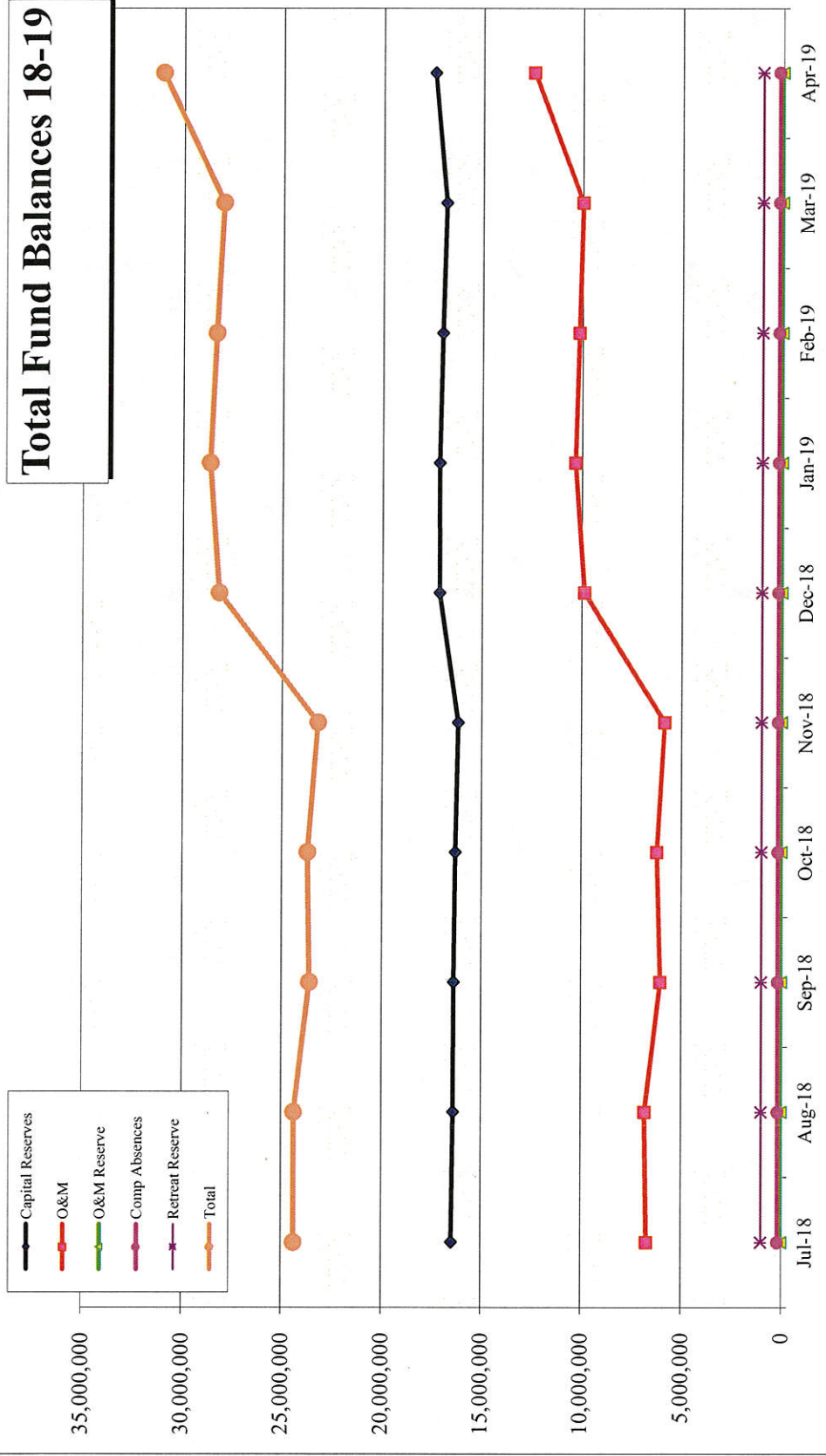
Cc: Mr. Ken White, President



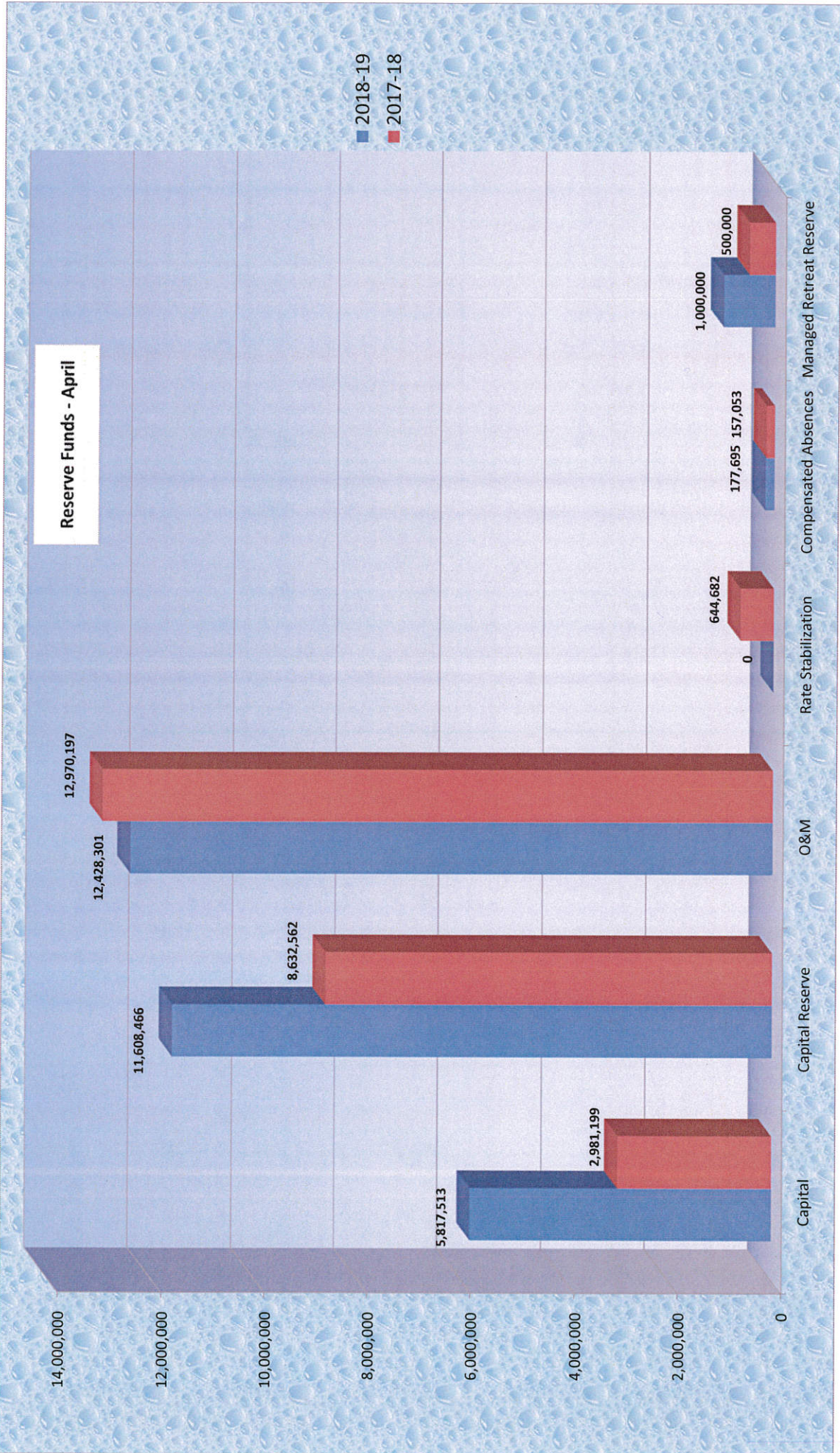
**Carmel Area Wastewater District
Schedule of Cash Receipts and Disbursements - APRIL 2019**

	Capital Fund	Capital Improvement Reserve	General O & M Fund	Rate Stabilization Reserve	Compensated Accruals Reserve	Defend or Managed Reserve	COUNTY Total Fund Balance	Union Bank Bank O & M Balance	Union Bank Bank PR Balance	L.A.I.F. Balance
Receipts:										
BALANCE BEGINNING OF MONTH	\$5,942,244	\$10,889,666	\$9,983,516	\$0	\$177,695	\$1,000,000	\$27,993,121	\$406,007	\$8,900	\$1,150,398
User Fees										
Property Taxes		718,800	2,758,766					7,766		
PBCSD Treatment Fees										
Reclamation O & M reimbursement										
Reclamation capital billing										
Permits										
PBCSD capital billing										
Other misc. revenue										
Interest income			161,288					1,480		
Connection Fees										
Void checks										
W/C audit refund										
CCLEAN receipts										
Pooled liability dividend										
September Ranch deposits										
Total Receipts	0	718,800	2,920,054	0	0	0	3,638,854	119,928	1	7,216
Fund Transfers:										
Transfers to Union Bank O&M	(124,731)		(475,269)					600,000		
Transfers to Union Bank PR								(310,000)	310,000	
Transfer rate stabilization fund per Resolution										
Intra-fund transfers for capital expenditures										
Rebalance Capital and O&M Reserves										
Total Transfers	(124,731)	0	(475,269)	0	0	0	(600,000)	290,000	310,000	0
Disbursements:										
Operations and capital										
Payroll & payroll taxes										
Employee Dental reimbursements										
CALPERS EFT										
CAWD SAM pension EFT										
CAWD pension loans EFT										
Home Depot EFT										
US Bank EFT										
Deferred comp contributions EFT										
PEHP contributions EFT										
Bank/ADP fees										
Highlands Bond Debt Service Payment										
Annual County admin billing fee										
Unfunded CALPERS liability										
GASB 68 report fee										
Total Disbursements	0	0	0	0	0	0	0	374,703	211,390	0
BALANCE END OF MONTH	5,817,513	11,608,466	12,428,301	0	177,695	1,000,000	31,031,975	441,232	107,511	1,157,615

Total Fund Balances 18-19



Capital Reserve + O&M + O&M Reserve + Compensated Absences Reserve = Total Fund held in County



**Carmel Area Wastewater District
Disbursements
Apr-19**

Date	Check	Vendor	Description	Amount
04/01/19	33534	American Fidelity Assurance	Monthly employee Sec 125 plan insurance billing	587.76
04/01/19	33535	Culligan Water Conditioning	Monthly service	17.35
04/01/19	33536	First Alarm	Plant and admin quarterly billing	417.39
04/01/19	33537	Keenan & Associates	Health insurance	25,346.20
04/01/19	33538	MetLife-Group Benefits	Life insurance	714.30
04/01/19	33539	Patelco Credit Union	HSA contributions	4,396.64
04/01/19	33540	Unum Life Ins.	Long-term disability insurance	1,973.69
04/01/19	33541	Vision Service Plan	Vision insurance	595.35
04/12/19	33542	Airtec Service	HVAC fan repair at the lab	385.90
04/12/19	33543	American Fidelity Assurance Company	Flex accounts	106.92
04/12/19	33544	American Lock & Key	Locks, doors and hardware on Plant buildings	3,104.50
04/12/19	33545	AT&T CALNET 3	Various phone lines for devices. New Plant fiber line finally billed-\$9,694.28 covers eight months	10,385.70
04/12/19	33546	Bryan Mailey Electric	Install backup antenna, fix injection line and install mag meter for WIMCO pump	1,448.23
04/12/19	33547	Cal-Am Water	Monthly service	996.36
04/12/19	33548	Carmel Marina Corporation	Admin garbage and Plant rolloffs	1,433.14
04/12/19	33549	Carmel Print & Copy	FOG program posters-"Clogbusters."	108.04
04/12/19	33550	Carmel Lock & Safe Co.	Change locks at the admin building	261.95
04/12/19	33551	CAWD/PBCSD Reclamation Project	Reimbursement for tertiary lab PG&E	421.26
04/12/19	33552	Christopher Dinner Heating	Service call for a rattling damper	105.00
04/12/19	33553	Commercial Truck Co.	Service on the 2009 International	1,106.26
04/12/19	33554	Corix Water Products	Valve box and lid for sewer repair	129.19
04/12/19	33555	CSI HR Group LLC	February and March HR consulting services	5,662.50
04/12/19	33556	CWEA	Employee certificate renewal	92.00
04/12/19	33557	Datco Services Corporation	Quarterly service fees	175.50
04/12/19	33558	Eaton Corporation	Annual service contract	1,759.00
04/12/19	33559	Exceedio	Desktop scanner at the admin building	555.88
04/12/19	33560	Fastenal Company	Small tools and operating supplies	2,165.12
04/12/19	33561	Fisher Scientific	Epure water system and filters for the lab	3,105.35
04/12/19	33562	Frisch Engineering	Pump Station PLC Design project (CAPITAL)	4,252.50
04/12/19	33563	Grainger	5 micron water filter and housing	555.70
04/12/19	33564	Granite Rock Company	Base rock and cold mix for sewer repair	707.84
04/12/19	33565	Hach Company	Hach SC 1500 annual license and lab supplies	1,592.08
04/12/19	33566	Harrington Industrial Plastics	Tuthill pump service packs	793.53
04/12/19	33567	Hayashi & Wayland Accounting	Bank reconciliation oversight	300.00
04/12/19	33568	ICON Cloud Solutions	Monthly telephone service	583.62
04/12/19	33569	Liberty Composting	Sludge hauling	7,298.20
04/12/19	33570	McCabe & Company	Coastal Commission consulting service	10,543.10
04/12/19	33571	McMaster-Carr	Operating supplies	109.54
04/12/19	33572	Michael Rachel	Dental	1,630.00
04/12/19	33573	MNS Engineers	Update standard plans and Hatton Canyon project (CAPITAL \$6,790.00)	6,959.40

**Carmel Area Wastewater District
Disbursements**

Apr-19

Date	Check	Vendor	Description	Amount
04/12/19	33574	Monterey Bay Window Cleaning	Admin building service	360.00
04/12/19	33575	Office Team	Admin temp service	105.50
04/12/19	33576	Peninsula Welding & Medical Supply	Non-liquid cylinders for the lab	90.30
04/12/19	33577	Pure Water	Monthly service	120.00
04/12/19	33578	Quill Corporation	Plant office supplies	469.77
04/12/19	33579	Rachel Lather-Hidalgo	Conference expenses	135.16
04/12/19	33580	Rapid Printers of Monterey	Best Practices posters for restaurants	215.33
04/12/19	33581	Rebuild-it Services Group	Drive release for secondary clarifier #1 project (CAPITAL)	72,404.80
04/12/19	33582	Robert Siegfried	Dental	211.70
04/12/19	33583	Scarborough Lumber (Ace Hardware)	Collection supplies	126.25
04/12/19	33584	Smitty's Janitorial	Monthly service	1,110.00
04/12/19	33585	Town & Country Gardening	Monthly service	610.00
04/12/19	33586	Tri-County Fire Protection	Five year sprinkler inspection at vehicle building	976.67
04/12/19	33587	Turf Image	GIS mapping, annexation research and walking bridge map	2,680.00
04/12/19	33588	Univar USA	Sodium hypochlorite and bisulfate	10,693.13
04/12/19	33589	Wellington Law Offices	Legal services for Plant, admin and Coastal Commission	10,162.00
04/12/19	33590	West Yost Associates	Collection System Modeling - Phase 3	6,465.00
04/12/19	33591	Winsupply of Monterey County	Galvanized flange and bushing	55.65
04/22/19	33592	Applied Marine Sciences	CCLEAN bills for ocean monitoring	36,451.18
04/22/19	33593	Day Electric	Bay & Scenic pump station transfer switch	5,241.00
04/22/19	33594	Kennedy/Jenks Consultants	WWTP Phase II design (CAPITAL)	41,283.53
04/22/19	33595	Office Depot	Door hangers for Collections	34.62
04/22/19	33596	Pacific Gas & Electric	Monthly service	35,696.64
04/22/19	33597	Teledyne Instruments	ISCO 5800 refrigerated sampler	6,978.14
04/24/19	33598	BTJ Enterprises	Newsletter production and postage	2,432.12
				337,990.48

**CAWD/PBCSD Reclamation Project
Disbursements**

Apr-19

Date	Check	Vendor	Description	Amount
04/12/19	8409	Airtec Service	HVAC fan service	385.90
04/12/19	8410	Alpine Technical Services	RE300 coagulant for water treatment	9,193.29
04/12/19	8411	American Lock and Key	Locks and doors at tertiary	1,984.85
04/12/19	8412	Automationdirect.com, Inc.	Filter system project (CAPITAL \$588.75)	879.75
04/12/19	8413	Brenntag Pacific, Inc.	Ammonium hydroxide	3,600.59
04/12/19	8414	Bryan J. Mailey Electrical	Install PLC panel, fix ammonia pump, install dosing panel & e-stops for pumps	8,562.50
04/12/19	8415	Buckles-Smith Electric	Electrical parts for Plant repairs	4,501.42
04/12/19	8416	Corix Water Products	Pump flange	38.41
04/12/19	8417	Eaton Corporation	Annual service contract	1,795.00
04/12/19	8418	Ferguson Enterprises	Filter system project (CAPITAL)	220.39
04/12/19	8419	Fisher Scientific	Epure water system and filters for the lab	3,105.35
04/12/19	8420	Hach Company	Digital extension cables for the reclaim ph meter	1,535.56
04/12/19	8421	Myron L. Company	Annual calibration service	121.70
04/12/19	8422	Pebble Beach Company	Bond principal and interest, letter of credit fees current and past and project rep costs	249,288.98
04/12/19	8423	Solenis LLC	Praestol K 144 L IBC polymer	6,434.79
04/22/19	8424	Cal-Am Water	Monthly service	2,129.56
04/22/19	8425	Pacific Gas & Electric	Tertiary and MF/RO	3,754.31
04/22/19	8426	Stifel Nicolaus & Company	Quarterly COP remarketing fees	2,416.44
				299,948.79



**Financial Statements
and
Supplementary Schedules**

April 2019

May 30, 2019

Carmel Area Wastewater District

Balance Sheet

April 2019

ASSETS		
Current Assets		
Cash		
Cash	32,738,333.56	
TOTAL Cash	32,738,333.56	
Other Current Assets		
Other Current Assets	500,545.26	
TOTAL Other Current Assets	500,545.26	
TOTAL Current Assets		33,238,878.82
Fixed Assets		
Land		
Land	308,059.76	
TOTAL Land	308,059.76	
Treatment Structures		
Treatment Structures	51,563,154.88	
TOTAL Treatment Structures	51,563,154.88	
Treatment Equipment		
Treatment Equipment	7,449,846.12	
TOTAL Treatment Equipment	7,449,846.12	
Collection Structures		
Collection Structures	1,040,749.41	
TOTAL Collection Structures	1,040,749.41	
Collection Equipment		
Collection Equipment	945,660.98	
TOTAL Collection Equipment	945,660.98	
Sewers		11,018,760.70
Disposal Facilities		
Disposal Facilities	1,126,272.60	
TOTAL Disposal Facilities	1,126,272.60	
Other Fixed Assets		
Other Fixed Assets	3,883,545.51	
TOTAL Other Fixed Assets	3,883,545.51	
Capital Improvement Projects		
Capital Improvement Projects	20,293,716.96	
TOTAL Capital Improvement Projects	20,293,716.96	
Accumulated depreciation		(46,104,180.31)
TOTAL Fixed Assets		51,525,586.61
Other Assets		
Other Assets		950,959.00
TOTAL Other Assets		950,959.00
TOTAL ASSETS		85,715,424.43

Carmel Area Wastewater District

Balance Sheet

April 2019

LIABILITIES

Current Liabilities		
Current Liabilities	479,275.42	
TOTAL Current Liabilities	479,275.42	479,275.42
Long-Term Liabilities		
Long Term Liabilities	1,951,020.63	
TOTAL Long-Term Liabilities	1,951,020.63	1,951,020.63
TOTAL LIABILITIES		2,430,296.05

NET POSITION

Net Assets	76,744,298.02	
Year-to-Date Earnings	6,540,830.36	
TOTAL NET POSITION	83,285,128.38	83,285,128.38
TOTAL LIABILITIES & NET POSITION		85,715,424.43

Carmel Area Wastewater District
Budgeted Income Statement
Year-to-Date Variance, April 2019 - current month, Consolidated by account

	<i>10 Months Ended April 30, 2019</i>	<i>10 Months Ended April 30, 2019 Budget</i>	<i>Variance Fav/<Unf></i>	<i>% Var</i>
Income				
Revenue	9,464,576.79	8,949,304.20	515,272.59	5.8 %
TOTAL Income	<u>9,464,576.79</u>	<u>8,949,304.20</u>	<u>515,272.59</u>	5.8 %
Adjustments				
Discounts	484.79	0.00	484.79	
TOTAL Adjustments	<u>484.79</u>	<u>0.00</u>	<u>484.79</u>	
*****	<u>9,465,061.58</u>	<u>8,949,304.20</u>	<u>515,757.38</u>	5.8 %
***** OPERATING INCOME	<u>9,465,061.58</u>	<u>8,949,304.20</u>	<u>515,757.38</u>	5.8 %
Operating Expenses				
Salaries and Payroll Taxes				
Salaries and Payroll Taxes	2,580,763.01	2,584,411.04	3,648.03	0.1 %
Payroll taxes	175.34	0.00	(175.34)	
TOTAL Salaries and Payroll Taxes	<u>2,580,938.35</u>	<u>2,584,411.04</u>	<u>3,472.69</u>	0.1 %
Employee Benefits				
Employee Benefits	559,105.27	747,112.00	188,006.73	25.2 %
TOTAL Employee Benefits	<u>559,105.27</u>	<u>747,112.00</u>	<u>188,006.73</u>	25.2 %
Director's Expenses				
Director's Expenses	30,911.89	27,574.97	(3,336.92)	-12.1 %
TOTAL Director's Expenses	<u>30,911.89</u>	<u>27,574.97</u>	<u>(3,336.92)</u>	-12.1 %
Truck and Auto Expenses				
Truck and Auto Expenses	36,402.75	46,585.60	10,182.85	21.9 %
TOTAL Truck and Auto Expenses	<u>36,402.75</u>	<u>46,585.60</u>	<u>10,182.85</u>	21.9 %
General and Administrative				
General and Administrative	234,595.59	405,548.30	170,952.71	42.2 %
TOTAL General and Administrative	<u>234,595.59</u>	<u>405,548.30</u>	<u>170,952.71</u>	42.2 %
Office Expense				
Office Expense	46,204.69	72,400.10	26,195.41	36.2 %
TOTAL Office Expense	<u>46,204.69</u>	<u>72,400.10</u>	<u>26,195.41</u>	36.2 %
Operating Supplies				
Operating Supplies	352,595.15	322,612.70	(29,982.45)	-9.3 %
TOTAL Operating Supplies	<u>352,595.15</u>	<u>322,612.70</u>	<u>(29,982.45)</u>	-9.3 %
Contract Services				
Contract Services	683,797.75	731,196.24	47,398.49	6.5 %
TOTAL Contract Services	<u>683,797.75</u>	<u>731,196.24</u>	<u>47,398.49</u>	6.5 %

Carmel Area Wastewater District
Budgeted Income Statement
Year-to-Date Variance, April 2019 - current month, Consolidated by account

	<i>10 Months Ended April 30, 2019</i>	<i>10 Months Ended April 30, 2019 Budget</i>	<i>Variance Fav/<Unf></i>	<i>% Var</i>
Repairs and Maintenance				
Repairs and Maintenance	508,137.07	699,180.80	191,043.73	27.3 %
TOTAL Repairs and Maintenance	508,137.07	699,180.80	191,043.73	27.3 %
Utilities				
Utilities	336,030.43	364,048.40	28,017.97	7.7 %
TOTAL Utilities	336,030.43	364,048.40	28,017.97	7.7 %
Travel and Meetings				
Travel and Meetings	48,249.55	94,770.80	46,521.25	49.1 %
TOTAL Travel and Meetings	48,249.55	94,770.80	46,521.25	49.1 %
Permits and Fees				
Permits and Fees	60,229.50	78,667.00	18,437.50	23.4 %
TOTAL Permits and Fees	60,229.50	78,667.00	18,437.50	23.4 %
Memberships and Subscriptions				
Memberships and Subscriptions	32,144.74	36,429.10	4,284.36	11.8 %
TOTAL Memberships and Subscriptions	32,144.74	36,429.10	4,284.36	11.8 %
Safety				
Safety	49,265.23	51,395.90	2,130.67	4.1 %
TOTAL Safety	49,265.23	51,395.90	2,130.67	4.1 %
Other Expenses				
Other Expense	40,668.68	36,833.40	(3,835.28)	-10.4 %
TOTAL Other Expenses	40,668.68	36,833.40	(3,835.28)	-10.4 %
TOTAL Operating Expenses	5,599,276.64	6,298,766.35	699,489.71	11.1 %
***** OPERATING INCOME (LOSS)	3,865,784.94	2,650,537.85	1,215,247.09	45.8 %
Non-op Income, Expense, Gain or Loss				
Other Income or Gain				
Other Income, Gain, Expense and Loss	2,675,045.42	2,081,570.50	593,474.92	28.5 %
TOTAL Other Income or Gain	2,675,045.42	2,081,570.50	593,474.92	28.5 %
TOTAL Non-op Income, Expense, Gain or Loss	2,675,045.42	2,081,570.50	593,474.92	28.5 %
***** NET INCOME (LOSS)	6,540,830.36	4,732,108.35	1,808,722.01	38.2 %
***** NET INCOME (LOSS)	6,540,830.36	4,732,108.35	1,808,722.01	38.2 %

Carmel Area Wastewater District
Budgeted Operating Expenses-Maint. Field
Year-to-Date Variance, April 2019 - current month, Consolidated by
account, Department 3

	<i>10 Months Ended April 30, 2019</i>	<i>10 Months Ended April 30, 2019 Budget</i>	<i>Variance Fav/<Unf></i>	<i>% Var</i>
*****	0.00	0.00	0.00	
***** OPERATING INCOME	0.00	0.00	0.00	
Operating Expenses				
Truck and Auto Expenses				
Truck and Auto Expenses	9,475.97	11,083.50	1,607.53	14.5 %
TOTAL Truck and Auto Expenses	9,475.97	11,083.50	1,607.53	14.5 %
Operating Supplies				
Operating Supplies	10,277.88	20,833.30	10,555.42	50.7 %
TOTAL Operating Supplies	10,277.88	20,833.30	10,555.42	50.7 %
Contract Services				
Contract Services	187.50	16,666.70	16,479.20	98.9 %
TOTAL Contract Services	187.50	16,666.70	16,479.20	98.9 %
Repairs and Maintenance				
Repairs and Maintenance	5,366.37	29,166.70	23,800.33	81.6 %
TOTAL Repairs and Maintenance	5,366.37	29,166.70	23,800.33	81.6 %
Safety				
Safety	4,301.40	2,641.80	(1,659.60)	-62.8 %
TOTAL Safety	4,301.40	2,641.80	(1,659.60)	-62.8 %
TOTAL Operating Expenses	29,609.12	80,392.00	50,782.88	63.2 %
***** OPERATING INCOME (LOSS)	(29,609.12)	(80,392.00)	50,782.88	63.2 %
***** NET INCOME (LOSS)	(29,609.12)	(80,392.00)	50,782.88	63.2 %
***** NET INCOME (LOSS)	(29,609.12)	(80,392.00)	50,782.88	63.2 %

Carmel Area Wastewater District
Budgeted Operating Expenses-Maint. Plant
Year-to-Date Variance, April 2019 - current month, Consolidated by
account, Department 4

	<i>10 Months Ended April 30, 2019</i>	<i>10 Months Ended April 30, 2019 Budget</i>	<i>Variance Fav/<Unf></i>	<i>% Var</i>
*****	0.00	0.00	0.00	
***** OPERATING INCOME	0.00	0.00	0.00	
Operating Expenses				
Salaries and Payroll Taxes				
Salaries and Payroll Taxes	382,829.80	416,229.00	33,399.20	8.0 %
TOTAL Salaries and Payroll Taxes	382,829.80	416,229.00	33,399.20	8.0 %
Employee Benefits				
Employee Benefits	99,799.23	137,982.36	38,183.13	27.7 %
TOTAL Employee Benefits	99,799.23	137,982.36	38,183.13	27.7 %
Truck and Auto Expenses				
Truck and Auto Expenses	2,375.64	17,900.00	15,524.36	86.7 %
TOTAL Truck and Auto Expenses	2,375.64	17,900.00	15,524.36	86.7 %
General and Administrative				
General and Administrative	10,639.17	0.00	(10,639.17)	
TOTAL General and Administrative	10,639.17	0.00	(10,639.17)	
Office Expense				
Office Expense	4,754.70	3,625.00	(1,129.70)	-31.2 %
TOTAL Office Expense	4,754.70	3,625.00	(1,129.70)	-31.2 %
Operating Supplies				
Operating Supplies	78,702.86	53,583.40	(25,119.46)	-46.9 %
TOTAL Operating Supplies	78,702.86	53,583.40	(25,119.46)	-46.9 %
Contract Services				
Contract Services	179,308.68	241,458.40	62,149.72	25.7 %
TOTAL Contract Services	179,308.68	241,458.40	62,149.72	25.7 %
Repairs and Maintenance				
Repairs and Maintenance	393,972.49	453,380.90	59,408.41	13.1 %
TOTAL Repairs and Maintenance	393,972.49	453,380.90	59,408.41	13.1 %
Utilities				
Utilities	5,489.06	1,433.30	(4,055.76)	-283.0 %
TOTAL Utilities	5,489.06	1,433.30	(4,055.76)	-283.0 %
Travel and Meetings				
Travel and Meetings	8,744.69	16,358.30	7,613.61	46.5 %

Carmel Area Wastewater District
Budgeted Operating Expenses-Maint. Plant
Year-to-Date Variance, April 2019 - current month, Consolidated by
account, Department 4

	<i>10 Months Ended April 30, 2019</i>	<i>10 Months Ended April 30, 2019 Budget</i>	<i>Variance Fav/<Unf></i>	<i>% Var</i>
TOTAL Travel and Meetings	8,744.69	16,358.30	7,613.61	46.5 %
Permits and Fees				
Permits and Fees	0.00	6,400.00	6,400.00	100.0 %
TOTAL Permits and Fees	0.00	6,400.00	6,400.00	100.0 %
Memberships and Subscriptions				
Memberships and Subscriptions	4,851.00	1,925.00	(2,926.00)	-152.0 %
TOTAL Memberships and Subscriptions	4,851.00	1,925.00	(2,926.00)	-152.0 %
Safety				
Safety	10,860.71	15,837.40	4,976.69	31.4 %
TOTAL Safety	10,860.71	15,837.40	4,976.69	31.4 %
TOTAL Operating Expenses	1,182,328.03	1,366,113.06	183,785.03	13.5 %
***** OPERATING INCOME (LOSS)	(1,182,328.03)	(1,366,113.06)	183,785.03	13.5 %
***** NET INCOME (LOSS)	(1,182,328.03)	(1,366,113.06)	183,785.03	13.5 %
***** NET INCOME (LOSS)	(1,182,328.03)	(1,366,113.06)	183,785.03	13.5 %

Carmel Area Wastewater District
Budgeted Operating Expenses-Collections
Year-to-Date Variance, April 2019 - current month, Consolidated by
account, Department 5

	<i>10 Months Ended April 30, 2019</i>	<i>10 Months Ended April 30, 2019 Budget</i>	<i>Variance Fav/<Unf></i>	<i>% Var</i>
*****	0.00	0.00	0.00	
***** OPERATING INCOME	0.00	0.00	0.00	
Operating Expenses				
Salaries and Payroll Taxes				
Salaries and Payroll Taxes	444,035.62	417,181.80	(26,853.82)	-6.4 %
TOTAL Salaries and Payroll Taxes	444,035.62	417,181.80	(26,853.82)	-6.4 %
Employee Benefits				
Employee Benefits	139,245.60	153,264.66	14,019.06	9.1 %
TOTAL Employee Benefits	139,245.60	153,264.66	14,019.06	9.1 %
Truck and Auto Expenses				
Truck and Auto Expenses	22,886.91	14,861.70	(8,025.21)	-54.0 %
TOTAL Truck and Auto Expenses	22,886.91	14,861.70	(8,025.21)	-54.0 %
General and Administrative				
General and Administrative	47,664.46	61,383.30	13,718.84	22.3 %
TOTAL General and Administrative	47,664.46	61,383.30	13,718.84	22.3 %
Office Expense				
Office Expense	2,778.86	8,808.30	6,029.44	68.5 %
TOTAL Office Expense	2,778.86	8,808.30	6,029.44	68.5 %
Operating Supplies				
Operating Supplies	14,116.69	19,016.60	4,899.91	25.8 %
TOTAL Operating Supplies	14,116.69	19,016.60	4,899.91	25.8 %
Contract Services				
Contract Services	93,494.06	93,570.90	76.84	0.1 %
TOTAL Contract Services	93,494.06	93,570.90	76.84	0.1 %
Repairs and Maintenance				
Repairs and Maintenance	76,271.97	157,500.00	81,228.03	51.6 %
TOTAL Repairs and Maintenance	76,271.97	157,500.00	81,228.03	51.6 %
Utilities				
Utilities	33,208.93	32,545.90	(663.03)	-2.0 %
TOTAL Utilities	33,208.93	32,545.90	(663.03)	-2.0 %
Travel and Meetings				
Travel and Meetings	12,286.46	9,416.70	(2,869.76)	-30.5 %

Carmel Area Wastewater District
Budgeted Operating Expenses-Collections
Year-to-Date Variance, April 2019 - current month, Consolidated by
account, Department 5

	<i>10 Months Ended April 30, 2019</i>	<i>10 Months Ended April 30, 2019 Budget</i>	<i>Variance Fav/<Unf></i>	<i>% Var</i>
TOTAL Travel and Meetings	12,286.46	9,416.70	(2,869.76)	-30.5 %
Permits and Fees				
Permits and Fees	5,634.60	5,600.00	(34.60)	-0.6 %
TOTAL Permits and Fees	5,634.60	5,600.00	(34.60)	-0.6 %
Memberships and Subscriptions				
Memberships and Subscriptions	1,619.33	1,978.30	358.97	18.1 %
TOTAL Memberships and Subscriptions	1,619.33	1,978.30	358.97	18.1 %
Safety				
Safety	4,279.49	10,670.00	6,390.51	59.9 %
TOTAL Safety	4,279.49	10,670.00	6,390.51	59.9 %
Other Expenses				
Other Expense	180.00	0.00	(180.00)	
TOTAL Other Expenses	180.00	0.00	(180.00)	
TOTAL Operating Expenses	897,702.98	985,798.16	88,095.18	8.9 %
***** OPERATING INCOME (LOSS)	(897,702.98)	(985,798.16)	88,095.18	8.9 %
***** NET INCOME (LOSS)	(897,702.98)	(985,798.16)	88,095.18	8.9 %
***** NET INCOME (LOSS)	(897,702.98)	(985,798.16)	88,095.18	8.9 %

Carmel Area Wastewater District
Budgeted Operating Expenses-Treatment
Year-to-Date Variance, April 2019 - current month, Consolidated by
account, Department 6

	<i>10 Months Ended April 30, 2019</i>	<i>10 Months Ended April 30, 2019 Budget</i>	<i>Variance Fav/<Unf></i>	<i>% Var</i>
*****	0.00	0.00	0.00	
***** OPERATING INCOME	0.00	0.00	0.00	
Operating Expenses				
Salaries and Payroll Taxes				
Salaries and Payroll Taxes	868,129.54	871,931.92	3,802.38	0.4 %
TOTAL Salaries and Payroll Taxes	868,129.54	871,931.92	3,802.38	0.4 %
Employee Benefits				
Employee Benefits	218,690.62	267,008.80	48,318.18	18.1 %
TOTAL Employee Benefits	218,690.62	267,008.80	48,318.18	18.1 %
Truck and Auto Expenses				
Truck and Auto Expenses	285.83	1,502.00	1,216.17	81.0 %
TOTAL Truck and Auto Expenses	285.83	1,502.00	1,216.17	81.0 %
General and Administrative				
General and Administrative	92,987.54	106,168.70	13,181.16	12.4 %
TOTAL General and Administrative	92,987.54	106,168.70	13,181.16	12.4 %
Office Expense				
Office Expense	6,457.73	32,308.50	25,850.77	80.0 %
TOTAL Office Expense	6,457.73	32,308.50	25,850.77	80.0 %
Operating Supplies				
Operating Supplies	242,889.36	221,012.70	(21,876.66)	-9.9 %
TOTAL Operating Supplies	242,889.36	221,012.70	(21,876.66)	-9.9 %
Contract Services				
Contract Services	320,835.70	240,083.40	(80,752.30)	-33.6 %
TOTAL Contract Services	320,835.70	240,083.40	(80,752.30)	-33.6 %
Repairs and Maintenance				
Repairs and Maintenance	25,868.90	54,716.60	28,847.70	52.7 %
TOTAL Repairs and Maintenance	25,868.90	54,716.60	28,847.70	52.7 %
Utilities				
Utilities	280,156.93	311,333.40	31,176.47	10.0 %
TOTAL Utilities	280,156.93	311,333.40	31,176.47	10.0 %
Travel and Meetings				
Travel and Meetings	17,458.51	31,537.50	14,078.99	44.6 %

Carmel Area Wastewater District
Budgeted Operating Expenses-Treatment
Year-to-Date Variance, April 2019 - current month, Consolidated by
account, Department 6

	<i>10 Months Ended April 30, 2019</i>	<i>10 Months Ended April 30, 2019 Budget</i>	<i>Variance Fav/<Unf></i>	<i>% Var</i>
TOTAL Travel and Meetings	17,458.51	31,537.50	14,078.99	44.6 %
Permits and Fees				
Permits and Fees	30,292.90	42,615.00	12,322.10	28.9 %
TOTAL Permits and Fees	30,292.90	42,615.00	12,322.10	28.9 %
Memberships and Subscriptions				
Memberships and Subscriptions	2,919.85	6,713.30	3,793.45	56.5 %
TOTAL Memberships and Subscriptions	2,919.85	6,713.30	3,793.45	56.5 %
Safety				
Safety	27,268.43	20,796.70	(6,471.73)	-31.1 %
TOTAL Safety	27,268.43	20,796.70	(6,471.73)	-31.1 %
Other Expenses				
Other Expense	0.00	1,666.70	1,666.70	100.0 %
TOTAL Other Expenses	0.00	1,666.70	1,666.70	100.0 %
TOTAL Operating Expenses	2,134,241.84	2,209,395.22	75,153.38	3.4 %
***** OPERATING INCOME (LOSS)	(2,134,241.84)	(2,209,395.22)	75,153.38	3.4 %
***** NET INCOME (LOSS)	(2,134,241.84)	(2,209,395.22)	75,153.38	3.4 %
***** NET INCOME (LOSS)	(2,134,241.84)	(2,209,395.22)	75,153.38	3.4 %

Carmel Area Wastewater District
Budgeted Operating Expenses-Admin.
*Year-to-Date Variance, April 2019 - current month, Consolidated by
account, Department 7*

	<i>10 Months Ended April 30, 2019</i>	<i>10 Months Ended April 30, 2019 Budget</i>	<i>Variance Fav/<Unf></i>	<i>% Var</i>
*****	0.00	0.00	0.00	
***** OPERATING INCOME	0.00	0.00	0.00	
Operating Expenses				
Salaries and Payroll Taxes				
Salaries and Payroll Taxes	445,880.67	503,940.46	58,059.79	11.5 %
TOTAL Salaries and Payroll Taxes	445,880.67	503,940.46	58,059.79	11.5 %
Employee Benefits				
Employee Benefits	101,369.82	188,856.18	87,486.36	46.3 %
TOTAL Employee Benefits	101,369.82	188,856.18	87,486.36	46.3 %
Director's Expenses				
Director's Expenses	30,211.89	26,908.30	(3,303.59)	-12.3 %
TOTAL Director's Expenses	30,211.89	26,908.30	(3,303.59)	-12.3 %
Truck and Auto Expenses				
Truck and Auto Expenses	1,378.40	1,238.40	(140.00)	-11.3 %
TOTAL Truck and Auto Expenses	1,378.40	1,238.40	(140.00)	-11.3 %
General and Administrative				
General and Administrative	73,973.87	237,996.30	164,022.43	68.9 %
TOTAL General and Administrative	73,973.87	237,996.30	164,022.43	68.9 %
Office Expense				
Office Expense	32,213.40	27,658.30	(4,555.10)	-16.5 %
TOTAL Office Expense	32,213.40	27,658.30	(4,555.10)	-16.5 %
Operating Supplies				
Operating Supplies	952.15	1,083.40	131.25	12.1 %
TOTAL Operating Supplies	952.15	1,083.40	131.25	12.1 %
Contract Services				
Contract Services	88,382.99	139,416.84	51,033.85	36.6 %
TOTAL Contract Services	88,382.99	139,416.84	51,033.85	36.6 %
Repairs and Maintenance				
Repairs and Maintenance	2,912.24	833.30	(2,078.94)	-249.5 %
TOTAL Repairs and Maintenance	2,912.24	833.30	(2,078.94)	-249.5 %
Utilities				
Utilities	17,171.14	18,735.80	1,564.66	8.4 %

Carmel Area Wastewater District
Budgeted Operating Expenses-Admin.
Year-to-Date Variance, April 2019 - current month, Consolidated by
account, Department 7

	<i>10 Months Ended April 30, 2019</i>	<i>10 Months Ended April 30, 2019 Budget</i>	<i>Variance Fav/<Unf></i>	<i>% Var</i>
TOTAL Utilities	17,171.14	18,735.80	1,564.66	8.4 %
Travel and Meetings				
Travel and Meetings	9,759.89	37,458.30	27,698.41	73.9 %
TOTAL Travel and Meetings	9,759.89	37,458.30	27,698.41	73.9 %
Permits and Fees				
Permits and Fees	24,302.00	24,052.00	(250.00)	-1.0 %
TOTAL Permits and Fees	24,302.00	24,052.00	(250.00)	-1.0 %
Memberships and Subscriptions				
Memberships and Subscriptions	22,754.56	25,812.50	3,057.94	11.8 %
TOTAL Memberships and Subscriptions	22,754.56	25,812.50	3,057.94	11.8 %
Safety				
Safety	1,310.71	1,450.00	139.29	9.6 %
TOTAL Safety	1,310.71	1,450.00	139.29	9.6 %
Other Expenses				
Other Expense	40,488.68	35,166.70	(5,321.98)	-15.1 %
TOTAL Other Expenses	40,488.68	35,166.70	(5,321.98)	-15.1 %
TOTAL Operating Expenses	893,062.41	1,270,606.78	377,544.37	29.7 %
***** OPERATING INCOME (LOSS)	(893,062.41)	(1,270,606.78)	377,544.37	29.7 %
***** NET INCOME (LOSS)	(893,062.41)	(1,270,606.78)	377,544.37	29.7 %
***** NET INCOME (LOSS)	(893,062.41)	(1,270,606.78)	377,544.37	29.7 %

Carmel Area Wastewater District
Budgeted Operating Expenses-Reclamation
*Year-to-Date Variance, April 2019 - current month, Consolidated by
account, Department 8*

	<i>10 Months Ended April 30, 2019</i>	<i>10 Months Ended April 30, 2019 Budget</i>	<i>Variance Fav/<Unf></i>	<i>% Var</i>
*****	0.00	0.00	0.00	
***** OPERATING INCOME	0.00	0.00	0.00	
Operating Expenses				
Salaries and Payroll Taxes				
Salaries and Payroll Taxes	437,480.99	375,127.86	(62,353.13)	-16.6 %
TOTAL Salaries and Payroll Taxes	437,480.99	375,127.86	(62,353.13)	-16.6 %
Director's Expenses				
Director's Expenses	700.00	666.67	(33.33)	-5.0 %
TOTAL Director's Expenses	700.00	666.67	(33.33)	-5.0 %
General and Administrative				
General and Administrative	9,330.55	0.00	(9,330.55)	
TOTAL General and Administrative	9,330.55	0.00	(9,330.55)	
Operating Supplies				
Operating Supplies	4,883.56	7,083.30	2,199.74	31.1 %
TOTAL Operating Supplies	4,883.56	7,083.30	2,199.74	31.1 %
Contract Services				
Contract Services	1,588.82	0.00	(1,588.82)	
TOTAL Contract Services	1,588.82	0.00	(1,588.82)	
Repairs and Maintenance				
Repairs and Maintenance	2,631.65	3,583.30	951.65	26.6 %
TOTAL Repairs and Maintenance	2,631.65	3,583.30	951.65	26.6 %
Utilities				
Utilities	4.37	0.00	(4.37)	
TOTAL Utilities	4.37	0.00	(4.37)	
Safety				
Safety	1,244.49	0.00	(1,244.49)	
TOTAL Safety	1,244.49	0.00	(1,244.49)	
TOTAL Operating Expenses	457,864.43	386,461.13	(71,403.30)	-18.5 %
***** OPERATING INCOME (LOSS)	(457,864.43)	(386,461.13)	(71,403.30)	-18.5 %

Carmel Area Wastewater District
Budgeted Operating Expenses-Reclamation
*Year-to-Date Variance, April 2019 - current month, Consolidated by
account, Department 8*

	<i>10 Months Ended April 30, 2019</i>	<i>10 Months Ended April 30, 2019 Budget</i>	<i>Variance Fav/<Unf></i>	<i>% Var</i>
***** NET INCOME (LOSS)	(457,864.43)	(386,461.13)	(71,403.30)	-18.5 %
***** NET INCOME (LOSS)	(457,864.43)	(386,461.13)	(71,403.30)	-18.5 %

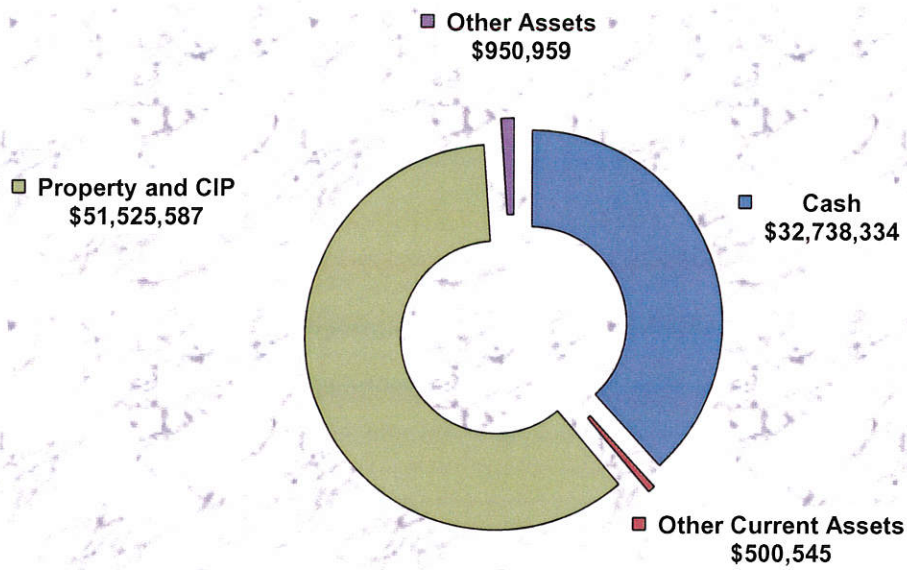
Carmel Area Wastewater District
Budgeted Income Stmt.-Waste to Energy
*Year-to-Date Variance, April 2019 - current month, Consolidated by
account, Department 9*

	<i>10 Months Ended April 30, 2019</i>	<i>10 Months Ended April 30, 2019 Budget</i>	<i>Variance Fav/<Unf></i>	<i>% Var</i>
Income				
Revenue	2,296.04	0.00	2,296.04	
TOTAL Income	<u>2,296.04</u>	<u>0.00</u>	<u>2,296.04</u>	
*****	<u>2,296.04</u>	<u>0.00</u>	<u>2,296.04</u>	
***** OPERATING INCOME	<u>2,296.04</u>	<u>0.00</u>	<u>2,296.04</u>	
Operating Expenses				
Salaries and Payroll Taxes				
Salaries and Payroll Taxes	134.88	0.00	(134.88)	
TOTAL Salaries and Payroll Taxes	<u>134.88</u>	<u>0.00</u>	<u>(134.88)</u>	
TOTAL Operating Expenses	<u>134.88</u>	<u>0.00</u>	<u>(134.88)</u>	
***** OPERATING INCOME (LOSS)	<u>2,161.16</u>	<u>0.00</u>	<u>2,161.16</u>	
***** NET INCOME (LOSS)	<u>2,161.16</u>	<u>0.00</u>	<u>2,161.16</u>	
***** NET INCOME (LOSS)	<u>2,161.16</u>	<u>0.00</u>	<u>2,161.16</u>	

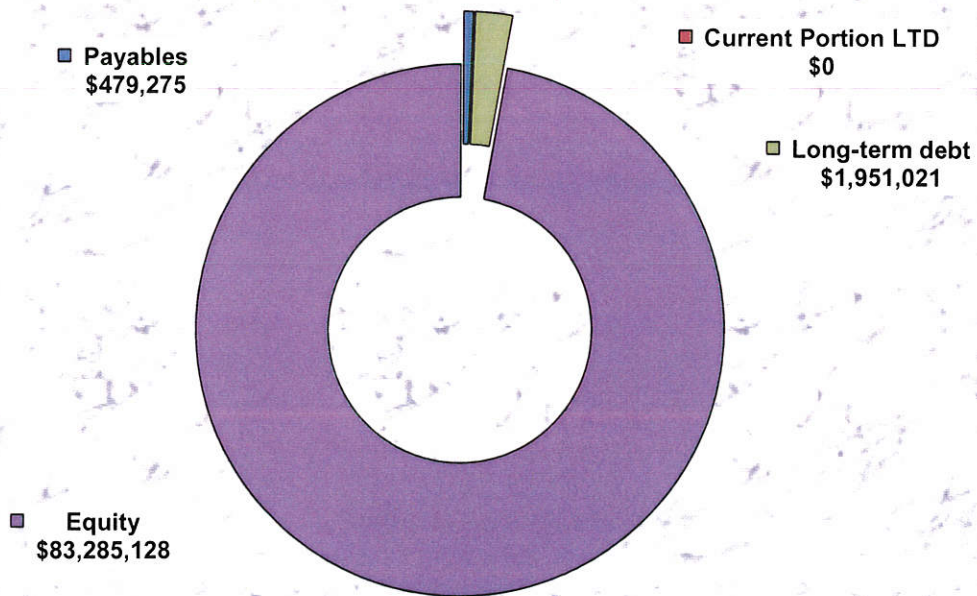
Carmel Area Wastewater District
Budgeted Income Stmt.-Brine Disposal
Year-to-Date Variance, April 2019 - current month, Consolidated by
account, Department 10

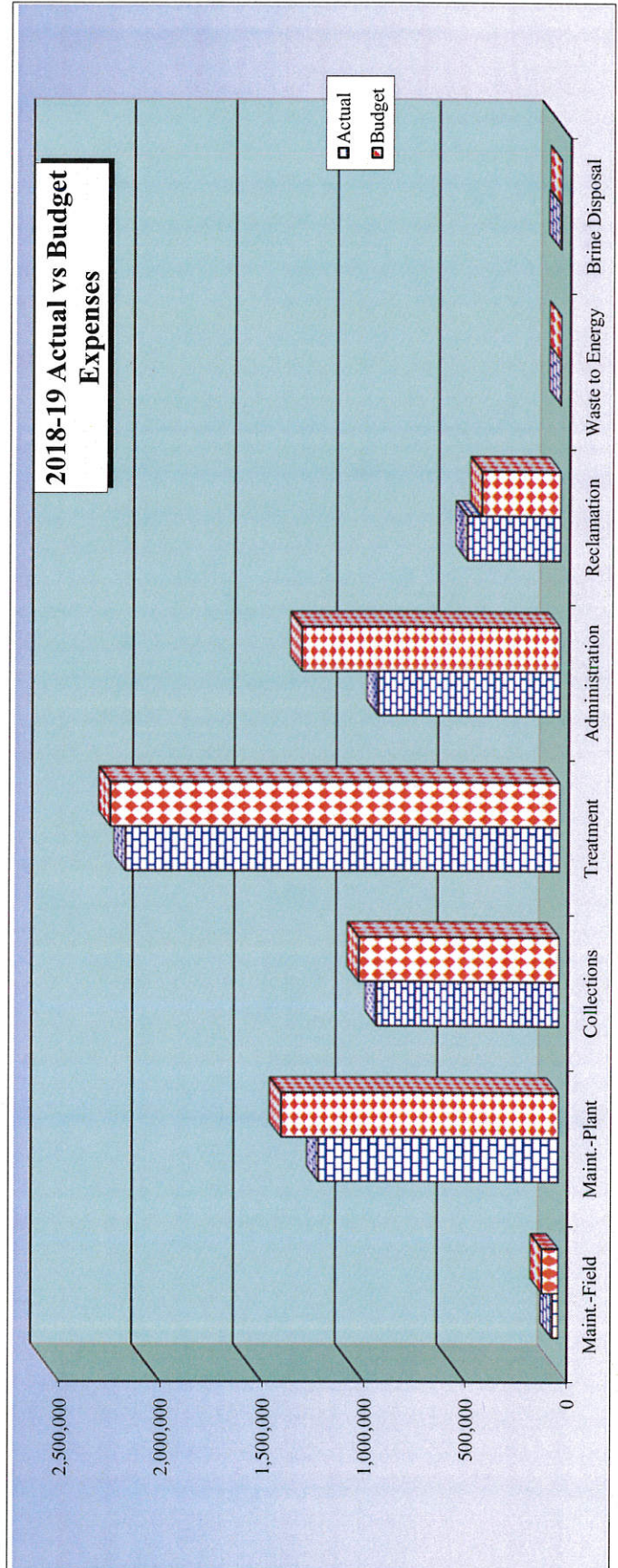
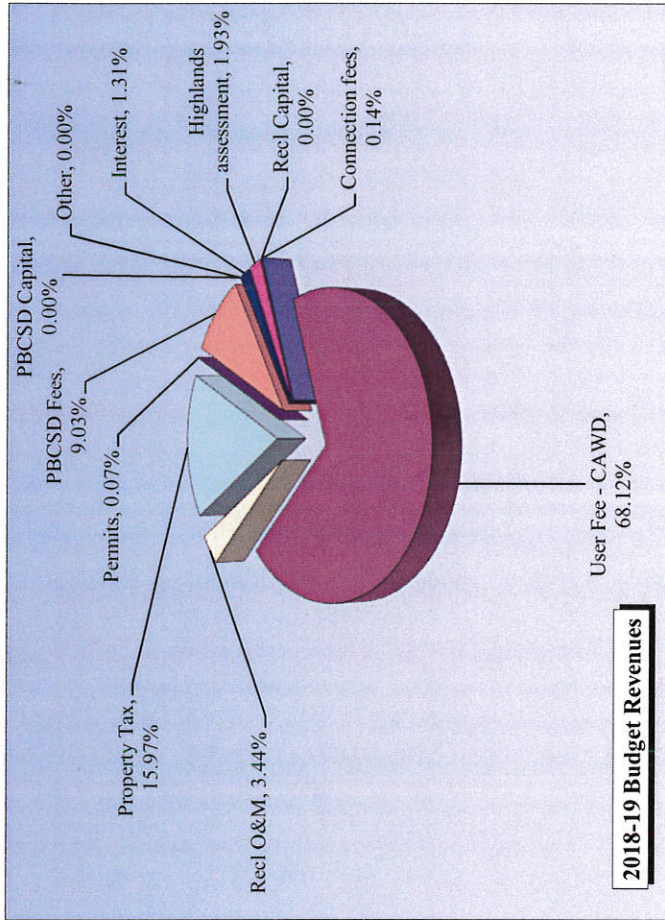
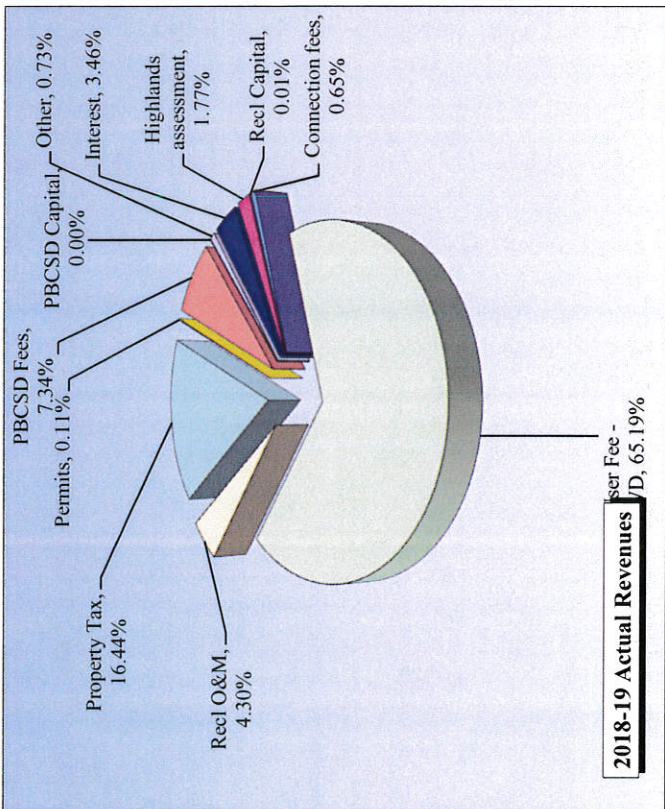
	<i>10 Months Ended April 30, 2019</i>	<i>10 Months Ended April 30, 2019 Budget</i>	<i>Variance Fav/<Unf></i>	<i>% Var</i>
Income				
Revenue	64,407.56	0.00	64,407.56	
TOTAL Income	<u>64,407.56</u>	<u>0.00</u>	<u>64,407.56</u>	
*****	<u>64,407.56</u>	<u>0.00</u>	<u>64,407.56</u>	
***** OPERATING INCOME	<u>64,407.56</u>	<u>0.00</u>	<u>64,407.56</u>	
Operating Expenses				
Salaries and Payroll Taxes				
Salaries and Payroll Taxes	2,271.51	0.00	(2,271.51)	
Payroll taxes	175.34	0.00	(175.34)	
TOTAL Salaries and Payroll Taxes	<u>2,446.85</u>	<u>0.00</u>	<u>(2,446.85)</u>	
Operating Supplies				
Operating Supplies	772.65	0.00	(772.65)	
TOTAL Operating Supplies	<u>772.65</u>	<u>0.00</u>	<u>(772.65)</u>	
Repairs and Maintenance				
Repairs and Maintenance	1,113.45	0.00	(1,113.45)	
TOTAL Repairs and Maintenance	<u>1,113.45</u>	<u>0.00</u>	<u>(1,113.45)</u>	
TOTAL Operating Expenses	<u>4,332.95</u>	<u>0.00</u>	<u>(4,332.95)</u>	
***** OPERATING INCOME (LOSS)	<u>60,074.61</u>	<u>0.00</u>	<u>60,074.61</u>	
***** NET INCOME (LOSS)	<u>60,074.61</u>	<u>0.00</u>	<u>60,074.61</u>	
***** NET INCOME (LOSS)	<u>60,074.61</u>	<u>0.00</u>	<u>60,074.61</u>	

Assets - April 30, 2019

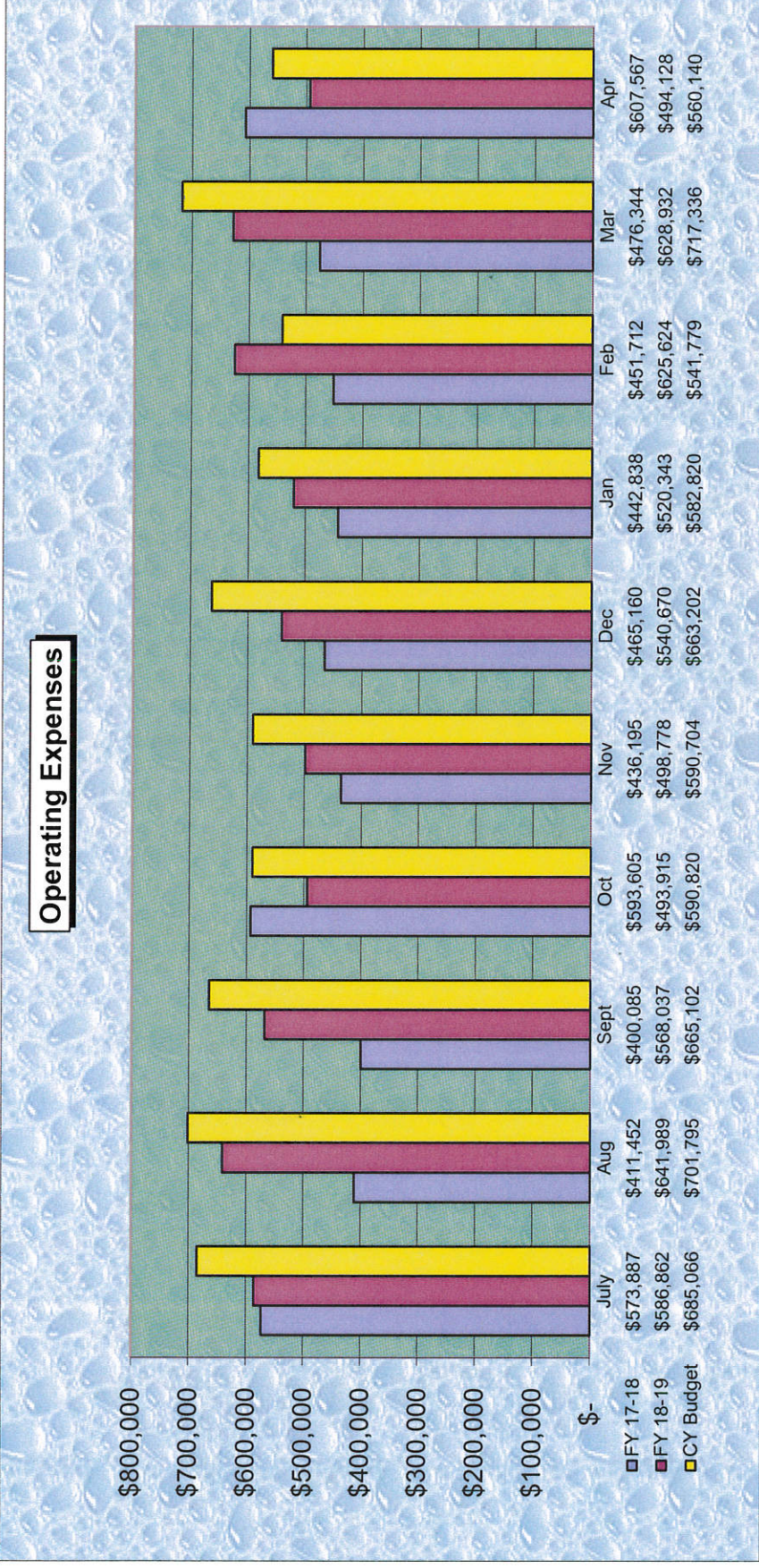


Liabilities - April 30, 2019





Operating Expenses



**Carmel Area Wastewater District
Capital Expenditures
2018-19**

	BEG BAL	APR	CURRENT YTD	CUMULATIVE TOTAL	ANNUAL BUDGET	BUDGET SPENT
<u>CAPITAL PURCHASES</u>						
<u>Admin</u>						
Mobile trailer HR office-unbudgeted		0	16,735	16,735	0	NA
		0	0	0	0	NA
<u>Collections</u>						
Highlands muffin monster-unbudgeted		12,554	12,554	12,554	0	NA
		0	0	0	0	NA
<u>Treatment</u>						
Mainsaver Purchasing Model and Connect-(RECL 33.33%)		0	57,662	57,662	40,000	144.15%
Secondary Clarifier wiper/blade rehab		0	10,770	10,770	0	NA
SCADA Historian-(RECL 50%)		1,460	6,508	6,508	20,000	32.54%
		0	0	0	0	NA
RECL share		(730)	(22,473)	(22,473)	(13,332)	168.56%
PBCSD share (1/3 of cost)		(243)	(17,489)	(17,489)	0	NA
		13,040	64,266	64,266	46,668	NA

Total Capital Purchases 18-19

**Carmel Area Wastewater District
Capital Expenditures
2018-19**

	BEG BAL	APR	CURRENT YTD	CUMULATIVE TOTAL	ANNUAL BUDGET	BUDGET SPENT
<u>CIP PROJECTS</u>						
<u>Collections</u>						
Design and construction plans for Calle La Cruz force main	182,581	330	14,977	197,558	0	NA
Construction of new Gravity Sewer Line-Carmel Meadows	117,152	0	0	117,152	0	NA
Hatton Canyon Trail	169,355	53	52,799	222,155	0	NA
Pump Stations-SCADA	0	208	59,648	59,648	300,000	19.88%
<u>Treatment</u>						
Study SCADA, PLC, and Communication Systems (RECL 50%)	370,965	0	773	371,738	0	NA
Waste Gas Burner	563,717	0	1,363	565,080	7,736	17.62%
SBS Tank Rehab (Brine Disposal)	3,443	0	7,890	11,333	0	NA
Aeration Basin #5 Baffle	0	0	6,081	6,081	30,000	20.27%
Aeration Basin #6 Baffle	0	0	2,425	2,425	30,000	8.08%
RECL share		0	(386)	(185,869)	0	NA
PBCSD share (1/3 of cost)		0	(3,418)	(256,929)	(22,579)	15.14%
	1,407,213	591	142,152	1,110,371	345,157	NA
	Total CIP Projects 18-19					

**Carmel Area Wastewater District
Capital Expenditures
2018-19**

	BEG BAL	APR	CURRENT YTD	CUMULATIVE TOTAL	ANNUAL BUDGET	BUDGET SPENT
<u>LONG TERM CIP PROJECTS</u>						
Treatment						
Electrical Upgrade	157,042	0	0	157,042	0	NA
Standby blower replacement	932,876	0	2,325	935,201	13,195	17.62%
Storm water improvements	562,669	0	1,324	563,993	7,517	17.62%
Thickener (RECL 50%)	942,381	0	2,272	944,652	12,894	17.62%
Hypo/SBS (RECL 40%)	2,930,043	0	8,053	2,938,095	45,704	17.62%
Portable RAS pumping	1,118,978	0	3,180	1,122,158	18,051	17.62%
Digester firm capacity Improvements	5,340,025	0	15,907	5,355,932	90,283	17.62%
#1 Water improvements	377,108	0	831	377,939	4,718	17.62%
#3 Water system improvements	323,065	0	435	323,500	2,469	17.62%
Dewatering	1,278,111	0	3,026	1,281,137	17,173	17.62%
Standby & main power improvements	3,435,491	0	9,619	3,445,109	54,592	17.62%
Perimeter Fencing	0	0	3,000	3,000	50,000	6.00%
Outfall Crossing rehabilitation	229,365	1,320	61,136	290,501	0	NA
Microturbine/Gas Conditioning System	400	0	1,010	1,410	0	NA
Secondary Clarifier #1 Rehab	0	75,168	76,231	76,231	250,000	30.49%
Microturbine	161,807	0	13,300	175,106	0	NA
Mainsaver Inventory Module (RECL 33%)	13,400	0	6,179	19,579	0	NA
SCADA Network Phase II PLC equipment	0	114,279	254,071	254,071	150,000	169.38%
WWTP Phase II Design	0	47,661	458,417	458,417	874,985	52.39%
Dewatering Elevator/Fall Safe Hatch	0	3,648	17,473	17,473	25,000	69.89%
RECL share		0	(6,417)	(1,654,091)	(24,729)	25.95%
PBCSD share (1/3 of cost)		(80,692)	(310,457)	(5,695,486)	(530,617)	58.51%
	17,802,761	161,384	620,913	11,390,971	1,061,235	NA
<i>Total Long Term CIP Projects 18-19</i>						
Total Capital (net of RECL and PBCSD)	19,209,974	175,015	827,331	12,565,609	1,453,060	NA

**Carmel Area Wastewater District
Variance Analysis
2018-19**

YTD Actual/
YTD Budget
Variance

Maintenance - Field

Safety -62.80% Training underbudgeted.

Maintenance - Plant

Office Expense -31.20% Computers and equipment underbudgeted.

Operating Supplies -46.90% Electrical supplies underbudgeted.

Utilities -283.00% Small dollar amounts, new phones and fiber line unbudgeted.

Memberships and Subscriptions -152.00% Small dollar amounts, memberships underbudgeted.

Collections

Salaries and Payroll Taxes -6.40% Overtime underbudgeted.

Truck and Auto Expenses -54.00% Diesel fuel underbudgeted.

Travel and Meetings -30.50% Timing, employee training.

Treatment

Operating Supplies -9.90% Chemicals and general supplies underbudgeted.

Contract Services -33.60% Sea level rise study budgeted in capital. Consulting-Coastal Commission unbudgeted.

Safety -31.10% Emergency response supplies underbudgeted.

Administration

Director's Expenses -12.30% Training underbudgeted.

Truck and Auto Expenses -11.30% Insurance underbudgeted: actual \$1,378, budget \$605.

Office Expense -16.50% Furnishings, paper and temp service underbudgeted.

Repairs and Maintenance -249.50% Building repairs underbudgeted-small dollar amounts; actual \$2,580, budget \$833.

Other Expense -15.10% Recruiting and newsletter underbudgeted.

Waste to Energy

Unbudgeted

Brine Disposal

Unbudgeted

District Obligations:

1) 2004 Highlands Project Bond Proceeds \$3,057,165 -- Balance \$1,090,000

STAFF REPORT



TO: Board of Directors
 FROM: Daryl Lauer, Collection Superintendent
 DATE: May 30, 2019
 SUBJECT: Monthly Report – April

RECOMMENDATION

Receive Report- Informational only; no action required.

Permits Issued

Sewer Lateral Permits issued in April	20
Total Fees.....	\$ 3005.00

Maintenance

Attached is a map of the locations cleaned in past three months. There were no Closed Circuit Television (CCTV) sewer line inspections during the month of April.

Cleaning period	Footage Cleaned	Percentage Cleaned	Size of Pipe Cleaned
February	44,081 ft.	10.72%	6 – 12 inches
March	32,789 ft.	7.97%	6 – 12 inches
April	45,753 ft.	11.13%	6 – 10 inches

Construction Activities

A sub-contractor doing the paving work for PG&E Gas line replacement project installed 23 new composite frame and lids during April.

General Comments

Staff attended the Annual CWEA Training Conference

Service Calls Responded to By Crew

Date	Time	Callout	Resolution
4/1/19	3:37 PM	Lateral Overflow	Called by homeowner for a lateral spill, owner advised to call their plumber.
4/2/19	9:49 AM	Noise coming from internal plumbing of home	Homeowner heard noise in plumbing that was cause by District cleaning the main sewer line. Informed homeowner that the noise was a by-product of sewer line maintenance.
4/15/19	11:40 AM	Lateral Overflow	Called by homeowner for a lateral spill, owner advised to call their plumber.

USA Location Requests – 157

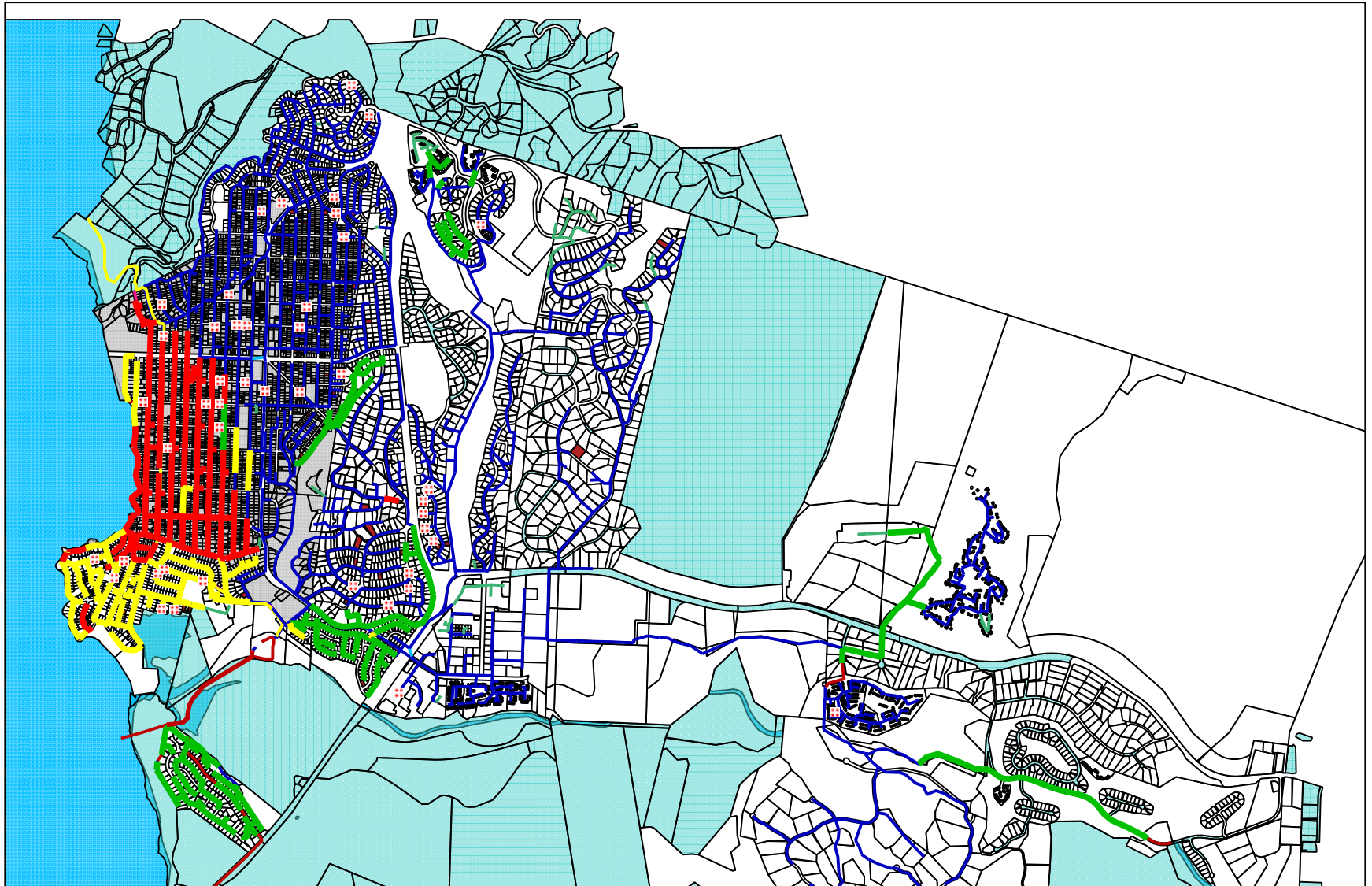
Plumbing permit inspections – 18

FUNDING

N/A

February (Green) - 44,081 feet
March (Yellow) - 32,789 feet
April (Red) - 45,753 feet

Monthly Cleaning Map



RedZone
ROBOTICS

5/20/2019



STAFF REPORT

To: Board of Directors

From: Mark Dias, Safety and
Regulatory Compliance Administrator

Date: May 30, 2019

Subject: Monthly Report for April 2019



RECOMMENDATION

Receive Report- Informational only; no action required.

DISCUSSION

Safety & Training

April 4- Tailgate training. Greg Ange, Mechanic II/Operator I, gave a presentation on Heat Illness Prevention. Using California Sanitary Risk Management Association (CSRMA) approved training materials, Greg covered the types of heat illness, how the body handles heat, how humidity impacts body cooling, general prevention strategies and specific prevention practices.

April 11- Tailgate training. Robert Bowman, Collections Worker III, presented on "working safely." The presentation began with a description of how safety is improved when everyone makes safety part of a work "lifestyle." This is aligned with the safety culture that is being promoted by management. He also emphasized that when one employee sets a good example, fellow employees will also adopt safe habits.

April 18- Tailgate training. Mark Dias, Safety/Compliance Administrator (S/C Admin Dias), presented on the need to identify and report ergonomic hazards during routine work. Christian Schmidt, a senior operator, had requested that S/C Admin Dias observe a common, recurring task at headworks. The task was awkward and strenuous and could lead to potential back injuries. While there had been no injuries, S/C Admin Dias agreed it was an ergonomic hazard and is looking at improvements. Dias requested that all staff point out any ergonomic hazards instead of ignoring them or tolerating them as "standard" or "routine."

Ongoing Safety Improvements

During April Maintenance Superintendent Foley and S/C Admin Dias continued to implement safety improvements and seek input from the operations crew and the Safety Committee. Many of the physical safety improvements are projects extending over weeks or months. Activities in April included:

- Respiratory Safety – gas levels at the Calle La Cruz lift station (Ribera Road).
Background; As described in previous reports, this lift station receives wastewater from the Carmel Highlands. The longer travel-time allows the anaerobic generation of dangerous hydrogen sulfide gas. Gas levels were high enough to warrant locking the hatch and preventing access until the gas could be mitigated. Four options were identified and are being tried in order of increasing cost. The first two options proved ineffective. The third option, dosing liquid calcium nitrate, was started in December and showed significant improvement. The dosage rate was increased in January/February. The results showed some additional improvement but did not fall in proportion to the dosage increase. **Update;** Collections staff considered whether the remaining gas levels were from Pt. Lobos State Parks. This is a second effluent stream pumped separately to Ribera Road. Before constructing and installing a second dosing system at Pt. Lobos, Collections staff again increased the dosage at the Highlands lift station. This approach should determine whether Highlands truly is the source of the gas, or if not, that a second dosing system at Pt. Lobos is justified. The dosage was increased in early May with ongoing gas level data collection. Results to be reported in June. Monthly tracking continuing.
- Bulk aqueous ammonia system repairs. **Background;** As described in previous reports, CAWD receives bulk deliveries of 19% aqueous ammonia approximately once per month. The bulk tank is located outdoors on the south side of the tertiary building with permanent secondary containment. Newly implemented gas monitoring equipment showed that ammonia vapors are escaping out of the tank lid during the filling process. Operations staff have consistently been required to wear respirators during deliveries. Until the system is improved, an Interim Operating Procedure (IOP) has been promulgated and deliveries are overseen by the Safety Officer. Per the IOP staff are now required to remotely monitor the tank level at a safe distance using the wireless Supervisory Control and Data Acquisition (SCADA) system rather than stand near the tank during filling. CAWD staff intends to retrofit the piping and venting components rather than purchasing a replacement system. A pressure gauge was installed to determine the pressures generated during filling. The pressures were monitored during a delivery and showed that the tank lid essentially held zero pressure and ammonia levels were very high around the lid. **Update:** A new, non-vented lid was ordered and placed onto the tank. The pressure was monitored during a recent delivery and the system still does not hold pressure. While the lid sealant material is suspected, staff needs to rule out other leak

locations. Sulphur sticks were ordered which will give an immediate visual indicator (white vapor) so staff can try to pinpoint the leak. Once the system can be sealed, internal pressures during filling will be documented. The plant engineer will use this data to calculate specifications to retrofit the piping, connections and relief valves. Monthly tracking continuing.

Tours and Outreach

April was a busy month for tours and outreach:

- On April 3, tours were given to fifty-three Sophomore/Junior chemistry students from Notre Dame all-girls school in Salinas. This was the first, of hopefully many, tours for Norte Dame students.
- On April 9, S/C Admin Dias gave presentations to four Carmel High School Advanced Placement (AP) science classes (approximately 100 students). The AP classes are for juniors/seniors who are preparing for their AP exams. Wastewater treatment is now a topic on these exams, and students are expected to know how the activated sludge process works and what contaminants are removed at the primary, secondary and tertiary stages of treatment. The classes included a “mini-lab” where activated sludge from the plant is observed under microscopes and the students are asked to identify different micro-organisms and estimate the age of the sludge.
- On the following day tours were given to all four Carmel High classes.

Injuries; first aid responses; worker compensation claims

There were no worker’s comp injuries/claims in April. There was one first aid incident where an employee sustained a superficial cut to a knuckle. The cut was cleaned, bandaged and the employee returned to work without further complications. The updated matrix is below.

	Work Related Injuries and Illnesses for 2018 Reporting Year				
TYPE	New Incidents (Month)	Total Incidents (Year)	Total Days Away from Work (Year)	Total Days of Job Restriction (Year)	Cumulative days lost (Year)
OSHA Injuries	0	0	0	0	0
OSHA Illnesses	0	0	0	0	0
Other WC Claims	0	0	0	0	0
First Aid (non-OSHA)	1	3	0	0	0

FUNDING

N/A- Informational item only

Wastewater Treatment Facility Operations Report

	HYDRAULIC LOADINGS					2019 YEAR-TO-DATE	
Report for: February 2019	Total Monthly, MG	Avg. Daily, MGD	Min Daily, MGD	Max Daily, MGD	% of Total	MG	acre-feet
CAWD Flow	40.133	1.433	1.006	1.915	61.482	67.34	206.56
PBCSD Flow	25.143	0.898	0.428	1.433	38.518	37.72	115.70
Total Plant Flow	65.276	2.331	1.434	3.348	100.00	105.05	322.25
Tertiary Flow	12.115	1.010	0.753	1.620	18.560	46.58	142.88
Ocean Discharge (3)	57.342	2.048	0.193	3.935	87.845	63.60	195.10
Potable Water	0.000	0.000	0.000	0.000	0.000	0.000	0.000

TERTIARY PROCESS HISTORY	
Total Annual Reclamation Production (2019)	46.58MG (142.95acre-ft.)
Total Lifetime Reclamation Production (94-19)	7.96 BG (24.43 B acre-ft.)
12 Month Rolling Total Reclamation Production	314.93 MG (966.51 acre-ft.)

ELECTRICAL COSTS						
Monthly Totals	Feb '19 kWh	Price per kWh	Feb'19	Jan'19	Dec'18	Nov '18
Secondary	163,944.00	\$ 0.132	\$ 21,715.86	\$ 19,162.99	\$ 20,442.26	\$ 19,382.41
Blowers	43,240.00	\$ 0.139	\$ 6,014.36	\$ 6,251.31	\$ 7,033.64	\$ 6,671.63
CAWD Total	207,184.00		\$ 27,730.22	\$ 25,414.30	\$ 27,475.90	\$ 26,054.04
Tertiary	63,098.24	\$ 0.134	\$ 9,880.24	\$ 12,687.06	\$ 10,296.25	\$ 13,319.23
MF/RO	34,093.00	\$ 0.157	\$ 7,268.91	\$ 20,346.02	\$ 21,161.35	\$ 15,952.35
Reclaim Total	97,191.24		\$ 17,149.15	\$ 33,033.08	\$ 31,457.60	\$ 29,271.58
Adjusted Monthly Totals (1)	CAWD Total		\$ 19,566.85	Reclamation Total		\$ 25,312.52

kW-h Per Acre Foot								
	2017				2018			
	1 QTR	2 QTR	3 QTR	4 QTR	1 QTR	2 QTR	3 QTR	4 QTR
CAWD	1407.39	1374.11	1601.12	2000.04	1770.27	1692.20	1678.08	1883.03
Reclamation	2579.46	1871.10	1813.37	1923.82	1780.18	2260.45	2164.89	2254.65

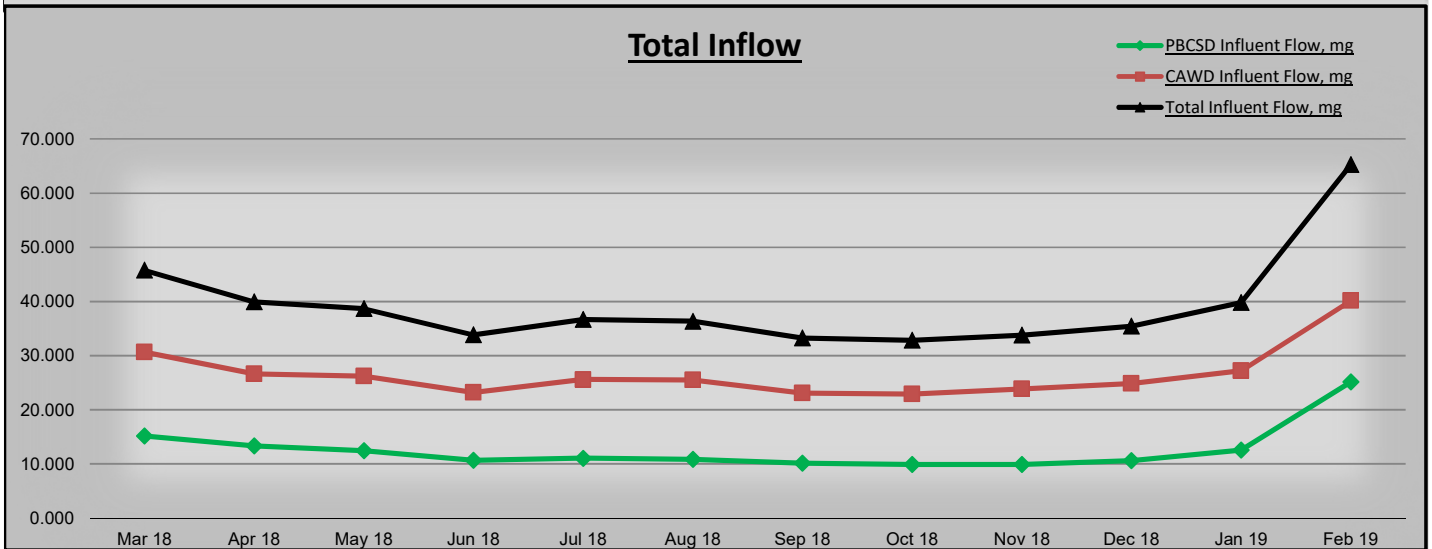
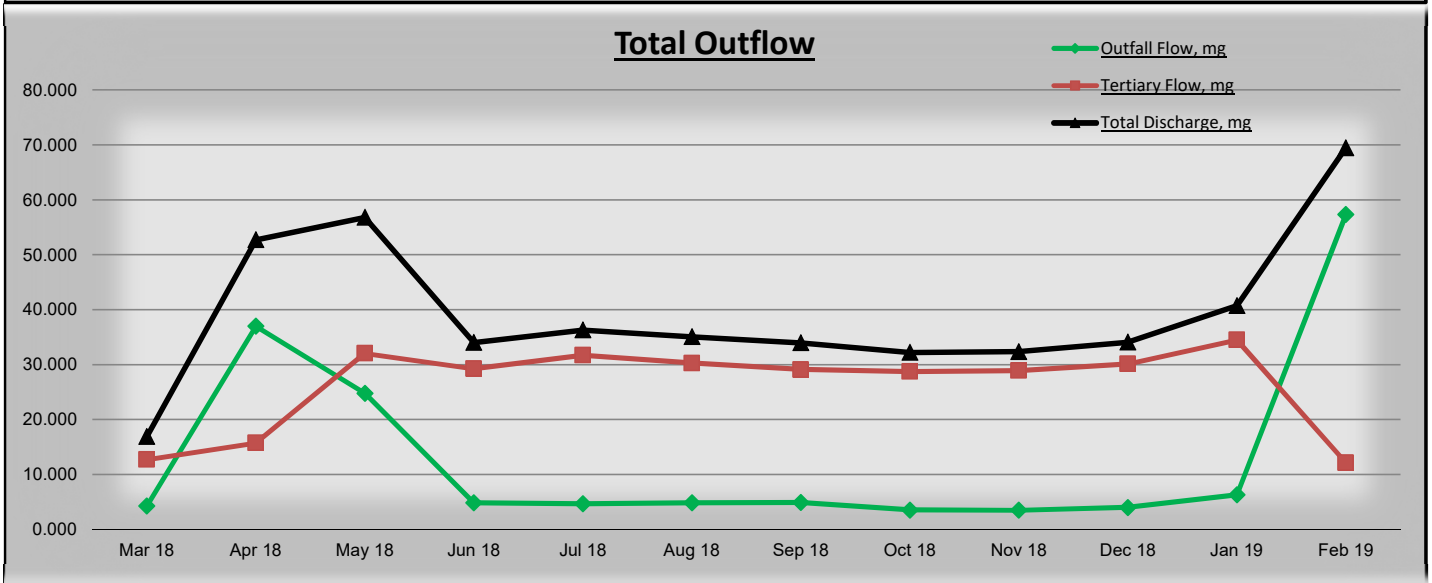
MICROTURBINE SUMMARY					
Month	Feb '19 kWh	Jan'19	Dec'18	Nov'18	Accumulated Totals
Production,kWh	0 (2)	0	0	5,495	703,885.00

COMMENTS

(1) Cost adjustment for Reclamation percentage for Secondary power costs and CAWD's percentage for Tertiary's power costs due to the Lab's power usage

(2) Micro Turbine system off-line the month of February due to equipment malfunction

(3) Discrepancy between the Influent and Outfall flow is due to the Outfall flow meter malfunctioning



Wastewater Treatment Facility Operations Report

Report for: March 2019	HYDRAULIC LOADINGS					2019 YEAR-TO-DATE	
	Total Monthly, MG	Avg. Daily, MGD	Min Daily, MGD	Max Daily, MGD	% of Total	MG	acre-feet
CAWD Flow	34.308	1.107	0.956	1.350	59.183	101.65	311.79
PBCSD Flow	23.661	0.763	0.549	1.093	40.817	61.38	188.28
Total Plant Flow	57.969	1.870	1.505	2.443	100.00	163.02	500.07
Tertiary Flow	0.000	0.000	0.000	0.000	0.000	46.58	142.88
Ocean Discharge	63.949	2.063	1.289	3.067	110.316	127.55	391.26
Potable Water	0.000	0.000	0.000	0.000	0.000	0.000	0.000

TERTIARY PROCESS HISTORY	
Total Annual Reclamation Production (2019)	46.58MG (142.95acre-ft.)
Total Lifetime Reclamation Production (94-19)	7.96 BG (24.43 B acre-ft.)
12 Month Rolling Total Reclamation Production	302.25 MG (927.62 acre-ft.)

ELECTRICAL COSTS						
Monthly Totals	Mar '19 kWh	Price per kWh	Mar'19	Feb'19	Jan'19	Dec '18
Secondary	150,233.00	\$ 0.137	\$ 20,620.81	\$ 21,715.86	\$ 19,162.99	\$ 20,442.26
Blowers	44,753.60	\$ 0.143	\$ 6,406.28	\$ 6,014.36	\$ 6,251.31	\$ 7,033.64
CAWD Total	194,986.60		\$ 27,027.09	\$ 27,730.22	\$ 25,414.30	\$ 27,475.90
Tertiary	12,003.52	\$ 0.139	\$ 2,064.83	\$ 9,880.24	\$ 12,687.06	\$ 10,296.25
MF/RO	4,953.00	\$ 0.172	\$ 1,689.48	\$ 7,268.91	\$ 20,346.02	\$ 21,161.35
Reclaim Total	16,956.52		\$ 3,754.31	\$ 17,149.15	\$ 33,033.08	\$ 31,457.60
Adjusted Monthly Totals (1)	CAWD Total		\$ 19,348.50	Reclamation Total		\$ 11,432.90

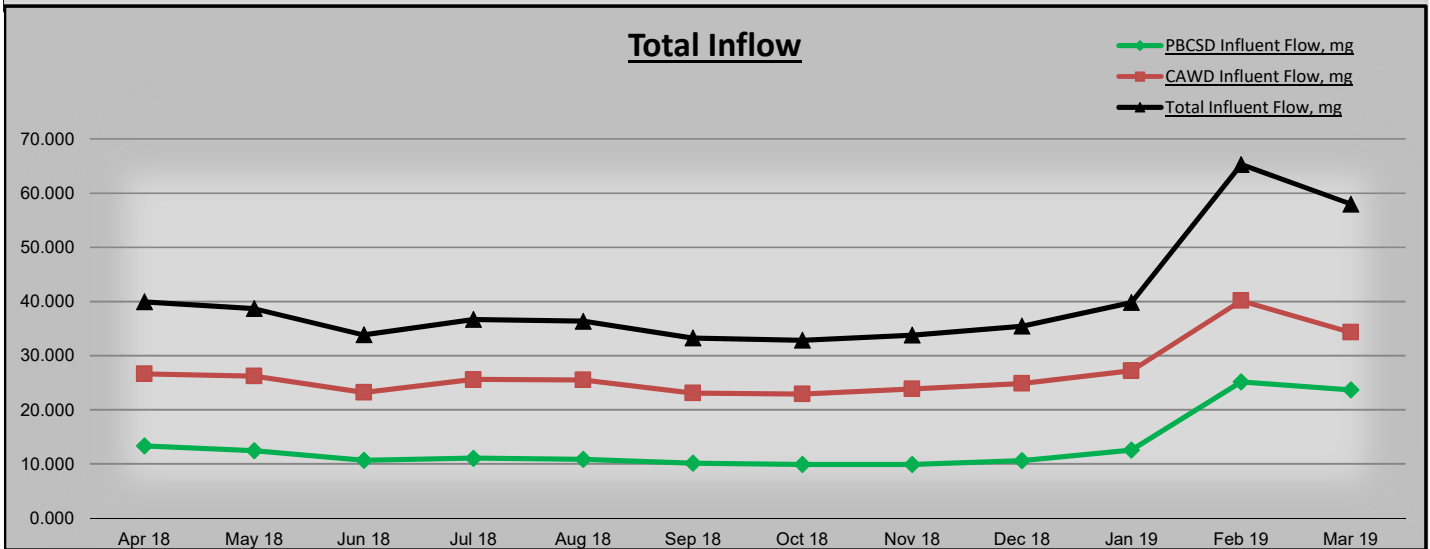
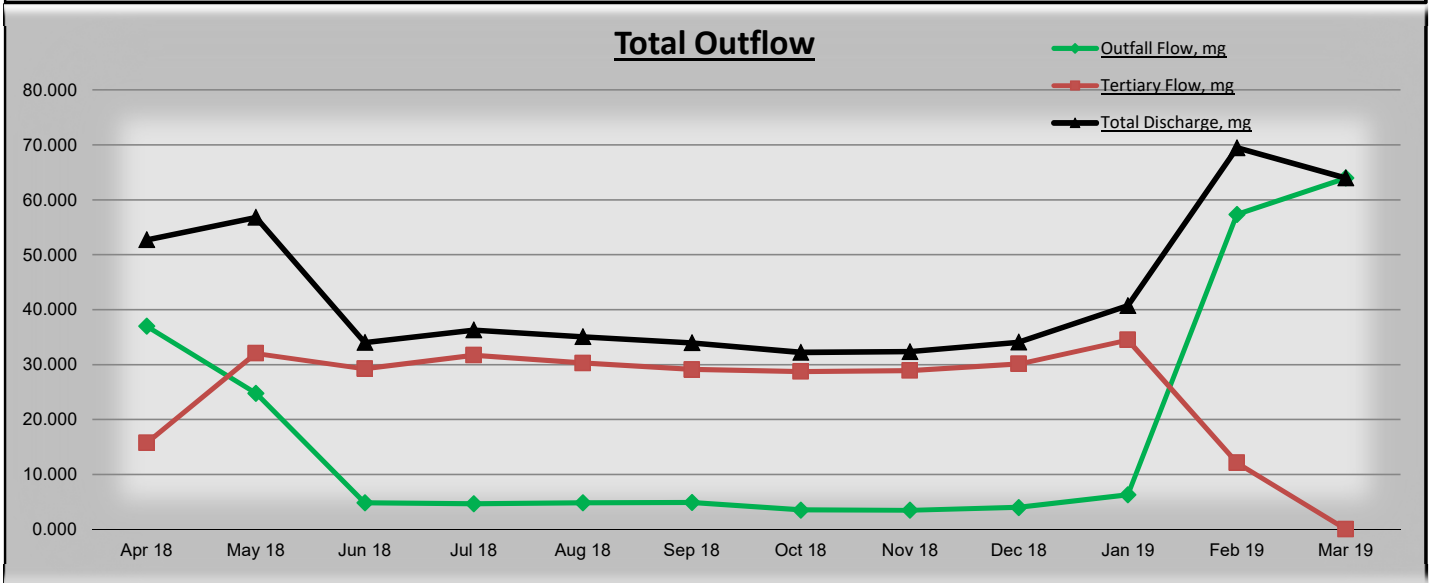
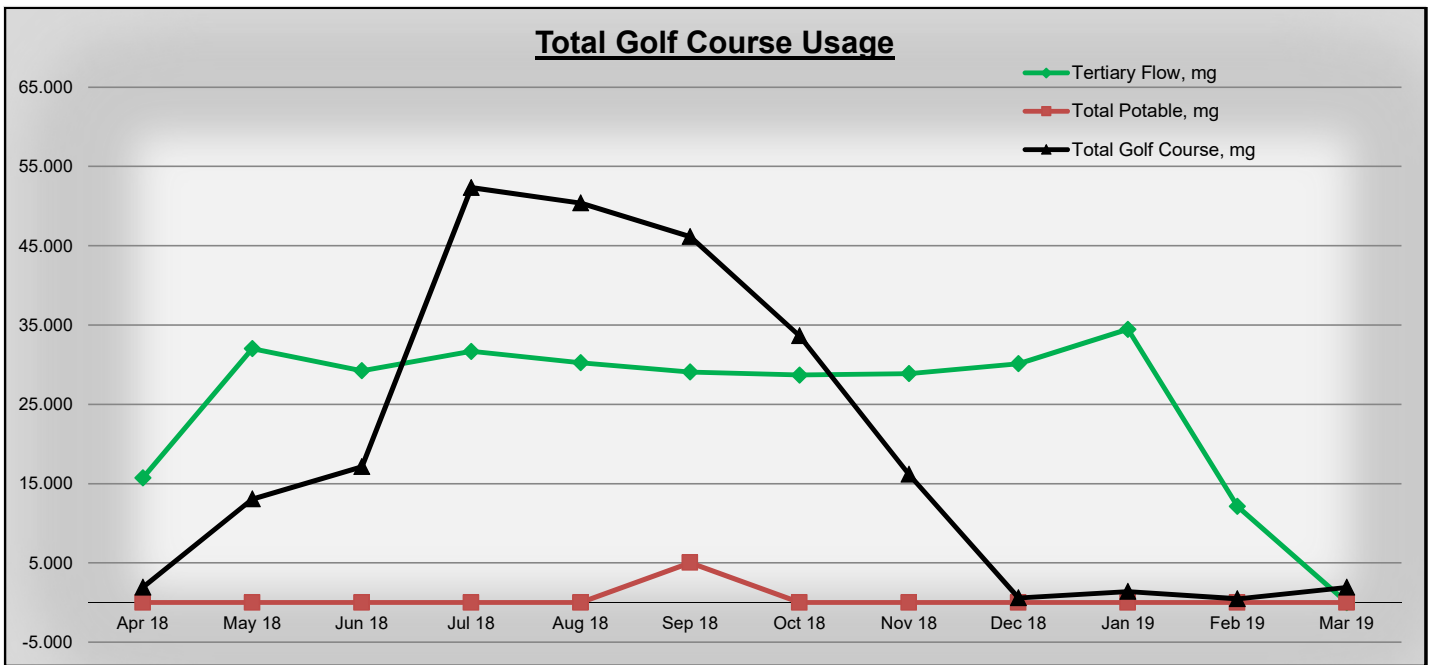
kW-h Per Acre Foot								
	2018				2019			
	1 QTR	2 QTR	3 QTR	4 QTR	1 QTR	2 QTR	3 QTR	4 QTR
CAWD	1770.27	1692.20	1678.08	1883.03	1174.96	N/A	N/A	N/A
Reclamation	1780.18	2260.45	2164.89	2254.65	2344.93	N/A	N/A	N/A

MICROTURBINE SUMMARY					
Month	Mar '19 kWh	Feb'19	Jan'19	Dec'18	Accumulated Totals
Production,kWh	0 (2)	0	0	0	703,885.00

COMMENTS

(1) Cost adjustment for Reclamation percentage for Secondary power costs and CAWD's percentage for Tertiary's power costs due to the Lab's power usage

(2) Micro Turbine system off-line the month of March due to equipment malfunction



Wastewater Treatment Facility Operations Report

Report for: April 2019	HYDRAULIC LOADINGS					2019 YEAR-TO-DATE	
	Total Monthly, MG	Avg. Daily, MGD	Min Daily, MGD	Max Daily, MGD	% of Total	MG	acre-feet
CAWD Flow	24.143	1.308	1.166	1.457	61.531	126.79	388.92
PBCSD Flow	14.092	0.470	0.408	0.568	35.915	75.47	231.50
Total Plant Flow	39.237	1.308	1.166	1.457	97.45	202.26	620.42
Tertiary Flow	22.654	0.755	0.000	1.174	57.736	69.23	212.37
Ocean Discharge	17.158	0.572	0.122	1.667	43.729	144.71	443.89
Potable Water	0.000	0.000	0.000	0.000	0.000	0.000	0.000

TERTIARY PROCESS HISTORY

Total Annual Reclamation Production (2019)	69.23MG (212.47acre-ft.)
Total Lifetime Reclamation Production (94-19)	7.98 BG (24.50 B acre-ft.)
12 Month Rolling Total Reclamation Production	309.19 MG (948.90 acre-ft.)

ELECTRICAL COSTS

Monthly Totals	Apr '19 kWh	Price per kWh	Apr'19	Mar'19	Feb'19	Jan'19
Secondary	144,516.00	\$ 0.141	\$ 20,378.22	\$ 20,620.81	\$ 21,715.86	\$ 19,162.99
Blowers	50,011.92	\$ 0.153	\$ 7,660.09	\$ 6,406.28	\$ 6,014.36	\$ 6,251.31
CAWD Total	194,527.92		\$ 28,038.31	\$ 27,027.09	\$ 27,730.22	\$ 25,414.30
Tertiary	54,990.20	\$ 0.144	\$ 9,247.47	\$ 2,064.83	\$ 9,880.24	\$ 12,687.06
MF/RO	110,877.00	\$ 0.168	\$ 18,985.21	\$ 1,689.48	\$ 7,268.91	\$ 20,346.02
Reclaim Total	165,867.20		\$ 28,232.68	\$ 3,754.31	\$ 17,149.15	\$ 33,033.08
Adjusted Monthly Totals (1)	CAWD Total		\$ 20,485.65	Reclamation Total		\$ 35,785.34

kW-h Per Acre Foot

	2018				2019			
	1 QTR	2 QTR	3 QTR	4 QTR	1 QTR	2 QTR	3 QTR	4 QTR
CAWD	1770.27	1692.20	1678.08	1883.03	1174.96	N/A	N/A	N/A
Reclamation	1780.18	2260.45	2164.89	2254.65	2344.93	N/A	N/A	N/A

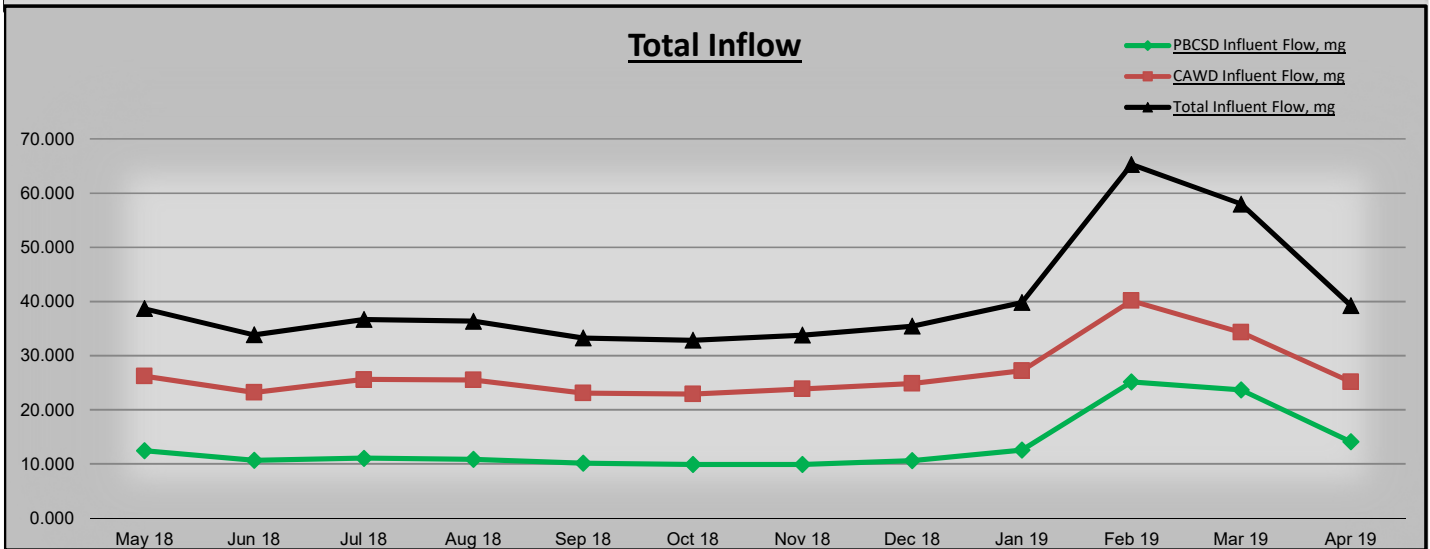
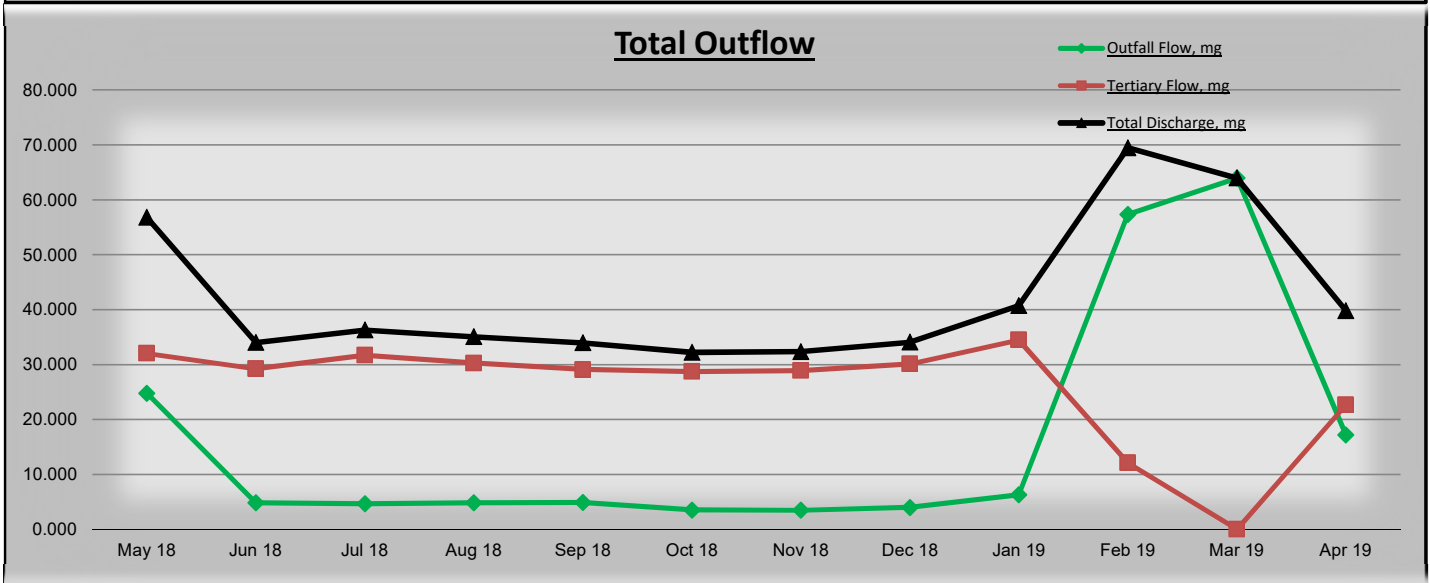
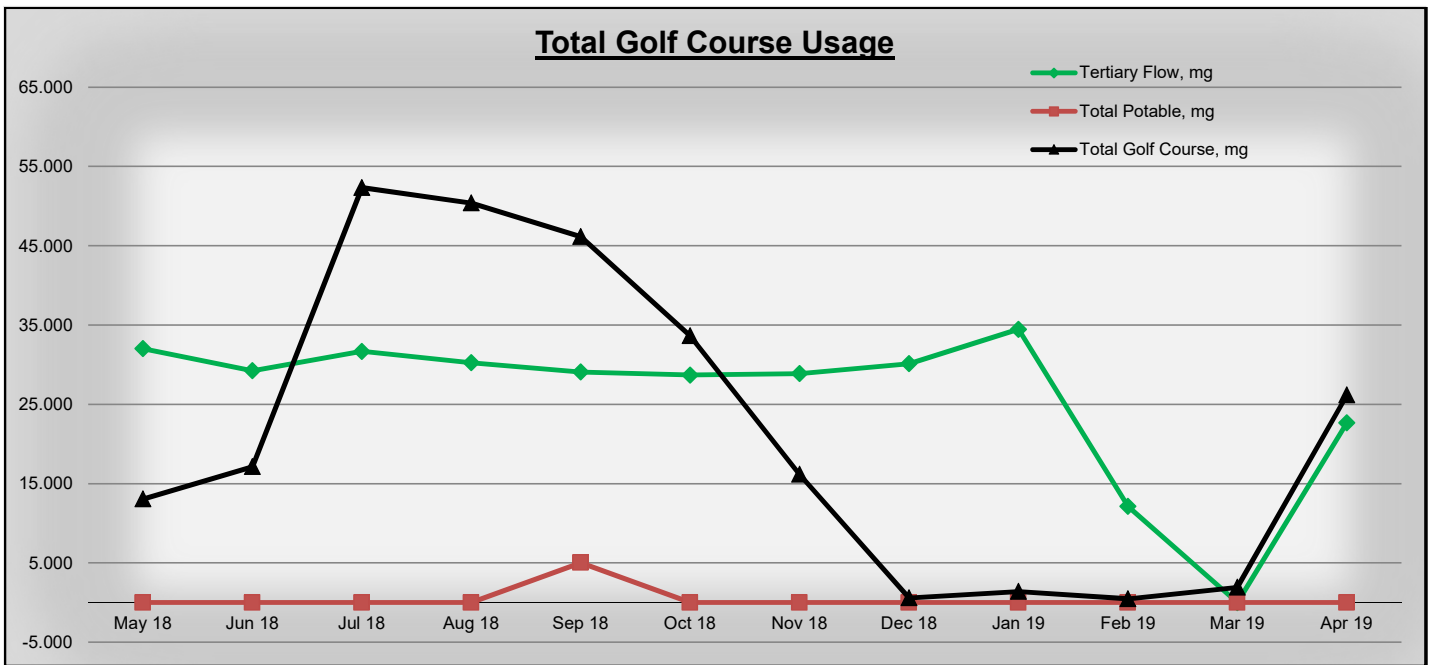
MICROTURBINE SUMMARY

Month	Apr '19 kWh	Mar'19	Feb'19	Jan'19	Accumulated Totals
Production,kWh	0 (2)	0	0	0	703,885.00

COMMENTS

(1) Cost adjustment for Reclamation percentage for Secondary power costs and CAWD's percentage for Tertiary's power costs due to the Lab's power usage

(2) Micro Turbine system off-line the month of April due to equipment malfunction



STAFF REPORT



To: Board of Directors

From: Ray De Ocampo
Laboratory/Environmental Compliance
Supervisor

Date: May 30, 2019

Subject: Monthly Report – April 2019

RECOMMENDATION

Receive Report-Informational only; No action required

DISCUSSION

LABORATORY REPORT

- Laboratory staff is continuing the Headworks analysis project for plant operations.
- Ms. Mui attended the California Water Environment Association (CWEA) Annual Conference April 8-12, 2019.
- Mr. De Ocampo and Ms. Mui attended a 40- hour Hazardous Waste Operations and Emergency Response Training class to get certified in assisting plant operations. The training was on April 15-19, 2019 at CALINC in Vacaville.

ENVIRONMENTAL COMPLIANCE REPORT

- CAWD Environmental Compliance staff had completed 22 stormwater and source control inspections this month.

Restaurant Inspection Table

Restaurant	Compliant	Reason for Non-Compliance	Comments
Carmel Bistro Giovanni	Yes		Stormwater Inspection*, SC Inspection
Carmel Bouchee	Yes		Stormwater Inspection*, SC Inspection

La Balena	Yes		Stormwater Inspection*, SC Inspection
IL Grillo	Yes		Stormwater Inspection*, SC Inspection
Pasta Palate	Yes		Stormwater Inspection*
Affina Food and Wine	No	Excessive Grease, Warning Issued and follow up required	Stormwater Inspection*, SC Inspection, Follow up inspection was compliant.
Katy's Place	Yes		Stormwater Inspection*, SC Inspection
IL Foranio	Yes		Stormwater Inspection*, SC Inspection
Café Carmel Coffee	Yes		Stormwater Inspection*, SC Inspection
Patissiere Boisseriere	Yes		Stormwater Inspection*, SC Inspection
Little Swiss Café	Yes		Stormwater Inspection*, SC Inspection
La Bicycelette	Yes		Stormwater Inspection*, SC Inspection
Village Corner	Yes		Stormwater Inspection*, SC Inspection
Flaherty's Seafood and Grill	No	Excessive Grease, Warning Issued and follow up required	Stormwater Inspection*, SC Inspection. Follow up inspection was compliant.
Cantinetta de Luca	Yes		Stormwater Inspection*, SC Inspection
Enzo's Ristorante	Yes		Stormwater Inspection*, SC Inspection
The TreeHouse Café	Yes		Stormwater Inspection*, SC Inspection
La Auberge Carmel	Yes		Stormwater Inspection*, SC Inspection
Friar Tuck's	Yes		Stormwater Inspection*, SC Inspection
Carmel Belle	Yes		Stormwater Inspection*, SC Inspection

* denotes that City of Carmel Environmental Compliance Manager is reviewing inspection notes to see if follow up is needed.

Grocery Store/Delicatessen Inspection Table

Grocery Store/Delicatessen	Compliant	Reason for Non-Compliance	Comments
Nielsen Brothers Market	NA	NA	Stormwater Inspection only*
5 th Avenue Deli	NA	NA	Stormwater Inspection only*

Restaurant Compliance Table

Date	Maintenance	Mechanical
Feb 2019	100%	100%
March 2019	100%	100%
April 2019	100%	100%

FUNDING

N/A-Informational item only

ID	Project Number	Task Name	Manager	Start	Finish	Cost	2018		2019		2020		2021	
							H1	H2	H1	H2	H1	H2	H1	H2
0		Projects Implementation Plan Schedule												
1		Treatment Plant Projects												
2	18-01	Mech/Elec Rehab and Sludge Holding Tank Replacement Project	Treanor	Mon 4/30/18	Thu 11/4/21	\$8,875,000.00								
8	18-02	Ops Building Historian and Reporting	Foley	Mon 4/2/18	Sun 6/30/19	\$140,000.00								
12	18-03	CMMS Improvements	Foley	Wed 7/11/18	Fri 6/28/19	\$100,000.00								
15	18-10	Aeration Basin Improvements 18/19 (PARTIAL RECLAMATION)	Waggoner	Wed 6/27/18	Tue 6/25/19	\$100,000.00								
21	18-04	PLC Replacement Project (PARTIAL RECLAMATION)	Treanor/Foley	Fri 5/4/18	Tue 6/25/19	\$400,000.00								
26	18-09	Secondary Clarifier No. 1 Rehab	Waggoner	Thu 7/5/18	Tue 6/11/19	\$250,000.00								
30	18-05	PLC/SCADA Programming (PARTIAL RECLAMATION)	Foley	Mon 10/8/18	Tue 7/13/21	\$300,000.00								
41	18-08	Standby Power Reliability Project	Treanor	Mon 10/8/18	Fri 10/23/20	\$730,000.00								
47	18-06	Disinfection Analyzer Project (PARTIAL RECLAMATION)	Waggoner/Young	Mon 1/7/19	Mon 11/18/19	\$150,000.00								
51	18-07	Digester No. 1 & Old No. 2 Purging and Cleaning	Treanor/Young	Fri 3/15/19	Fri 3/6/20	\$150,000.00								
58	18-11	Microturbine Integration Project	Treanor/Foley	Tue 6/4/19	Tue 6/30/20	\$510,000.00								
63		Critical Process Onsite Flood Mitigations (PARTIAL RECLAMATION)	Treanor	Mon 7/1/19	Mon 6/29/20	\$100,000.00								
64		Aeration Basin Improvements 19/20	Waggoner	Mon 7/1/19	Thu 4/30/20	\$140,000.00								
67	19-10	1 Water Corrosion Control	Waggoner	Mon 7/1/19	Fri 6/12/20	\$30,000.00								
68		Cathodic Protection Testing	Treanor	Wed 7/3/19	Tue 6/30/20	\$30,000.00								
69	18-28	Perimeter Tree Plan and Implementation	Treanor	Mon 7/1/19	Tue 6/30/26	\$120,000.00								
70		Plant Fence Replacement	Treanor	Mon 12/2/19	Tue 7/20/21	\$150,000.00								
74		Effluent Building Wet Well Mixing	Waggoner	Mon 2/3/20	Tue 6/30/20	\$60,000.00								
75		Cart Charging and Parking	Foley	Mon 2/3/20	Fri 8/13/21	\$50,000.00								
76		Operations Bldg Basement Renovation	Waggoner	Mon 2/3/20	Tue 6/30/20	\$50,000.00								
77		Plant Paving, Vault Lids, Drainage	Treanor	Wed 7/1/20	Tue 3/29/22	\$0.00								
78		Chlorine Contact Pipe Gallery Repairs	Treanor	Fri 1/1/21	Mon 3/29/21	\$44,000.00								
81		Lagoon Crossing Rehabilitation	Treanor	Tue 2/1/22	Wed 6/1/22	\$300,000.00								Lagoon C
82		RAS Pump/Piping Rehab	Treanor	Tue 2/1/22	Wed 6/1/22	\$0.00								RAS P
83		Lunch Room MCC Replace with Panelboard	Foley	Wed 6/1/22	Thu 11/3/22	\$140,000.00								Lunc
86		Treatment Plant Studies & O&M Manuals	Treanor	Tue 4/3/18	Wed 7/24/24	\$1,205,000.00								Treatment Plant Studies & O&M Man
87	18-14	Sea Level Rise Study	Treanor	Tue 4/3/18	Tue 12/4/18	\$220,000.00								
88		Coastal Hazards Monitoring Plan	Treanor	Fri 11/1/19	Tue 9/1/20	\$35,000.00								
89		Life Expectancy Analysis	Treanor	Wed 9/2/20	Fri 7/2/21	\$35,000.00								
90		Online O&M Manual	Treanor	Wed 9/1/21	Wed 7/24/24	\$150,000.00								
91		Reclamation Projects												

ID	Project Number	Task Name	Manager	Start	Finish	Cost	2018		2019		2020		2021			
							H1	H2	H1	H2	H1	H2	H1	H2		
92	18-24	Reclamation Sand Filter Integration Project	Waggoner	Wed 5/9/18	Sun 6/30/19	\$100,000.00	Reclamation Sand Filter Integration Project									
98	18-26	RO Pretreatment Acid Tanks and Containment	Treanor	Fri 6/8/18	Wed 5/13/20	\$415,000.00	RO Pretreatment Acid Tanks and Containment									
103	18-25	EQ Basin Pump Electrical	Foley	Mon 10/8/18	Sun 6/30/19	\$80,000.00	EQ Basin Pump Electrical									
104		MF/RO Sound Barriers	Treanor	Tue 10/1/19	Mon 3/2/20	\$35,000.00	MF/RO Sound Barriers									
105		Reclamation Line Cathodic Protection Testing	Treanor	Wed 7/1/20	Tue 12/1/20	\$25,000.00	Reclamation Line Cathodic Protection Testing									
106		Painting Project	Treanor	Wed 7/1/20	Tue 12/1/20	\$75,000.00	Painting Project									
107		Reclamation Studies	Treanor	Mon 7/1/19	Fri 5/29/20	\$35,000.00	Reclamation Studies									
109		Collections Projects					Collections Projects									
110	19-02	Ordinances (Pretreatment and Admin Penalty)	Lather	Fri 3/15/19	Sat 11/30/19	\$0.00	Ordinances (Pretreatment and Admin Penalty)									
111	18-16	Highlands H2S Control	Lauer	Mon 4/16/18	Fri 6/28/19	\$0.00	Highlands H2S Control									
113	18-17	Hatton Canyon Pipe Bursting	Lather	Wed 5/23/18	Wed 10/20/21	\$1,450,000.00	Hatton Canyon Pipe Bursting									
114	18-18	Pump Station PLC/SCADA Replacement	Foley/Lather	Wed 7/18/18	Thu 2/13/20	\$600,000.00	Pump Station PLC/SCADA Replacement									
115	19-03	Carmel Meadows Gravity Sewer Improvements	Lather	Fri 3/15/19	Wed 2/10/21	\$1,294,000.00	Carmel Meadows Gravity Sewer Improvements									
116		Monte Verde at 2nd Ave Sewer Replacement	Lather	Thu 5/30/19	Thu 11/7/19	\$150,000.00	Monte Verde at 2nd Ave Sewer Replacement									
117	19-07	Rio Road CIPP Lining Project	Lather	Mon 7/1/19	Fri 8/28/20	\$1,340,000.00	Rio Road CIPP Lining Project									
118	18-27	Highlands FM ARVs	Lauer	Thu 8/1/19	Thu 11/14/19	\$60,000.00	Highlands FM ARVs									
119		Highlands FM Flushing	Lauer	Tue 10/1/19	Mon 1/13/20	\$75,000.00	Highlands FM Flushing									
123		Upper Rancho Canada Upsize Line	Lather	Wed 11/6/19	Tue 6/11/24	\$1,500,000.00	Upper Rancho Canada Upsize Line									
124		Rancho Canada New Development Line	Lather	Wed 11/6/19	Tue 6/11/24	\$1,500,000.00	Rancho Canada New Development Line									
125		Assessment Districts/Annexations	Lather	Tue 7/3/18	Wed 9/30/20	\$0.00	Assessment Districts/Annexations									
126	18-21	Corona Road Assessment District	Lather	Thu 8/2/18	Mon 1/6/20	\$0.00	Corona Road Assessment District									
127	19-05	Riley Ranch Annexation/Connection	Lather	Thu 8/2/18	Mon 1/6/20	\$0.00	Riley Ranch Annexation/Connection									
128	18-29	September Ranch Water and Sewer Service	Lather	Tue 9/25/18	Thu 9/26/19	\$0.00	September Ranch Water and Sewer Service									
129	19-08	Carmel Valley Manor Sewer	Lather	Tue 7/3/18	Wed 9/30/20	\$0.00	Carmel Valley Manor Sewer									
130	19-09	2019 Mass Annexation	Lather	Fri 3/15/19	Mon 1/6/20	\$0.00	2019 Mass Annexation									
131		Collections Studies / Reports	Lauer/Lather	Thu 5/24/18	Thu 1/9/20	\$260,000.00	Collections Studies / Reports									
132	18-22	Capacity Study/Asset Management Plan	Lauer/Lather	Thu 5/24/18	Mon 11/26/18	\$100,000.00	Capacity Study/Asset Management Plan									
133	18-23	New Connections Master Plan	Lauer/Lather	Thu 8/30/18	Sun 6/30/19	\$0.00	New Connections Master Plan									
134		Monte Verde and Bay/Scenic FM Assessment	Lauer/Lather	Fri 2/1/19	Wed 7/17/19	\$75,000.00	Monte Verde and Bay/Scenic FM Assessment									
135	19-04	Yankee Point and Otter Cove Highlands Extension	Lather	Mon 5/6/19	Thu 1/9/20	\$55,000.00	Yankee Point and Otter Cove Highlands Extension									
136	19-06	Collection System SSMP	Lauer/Lather	Mon 7/1/19	Fri 11/1/19	\$30,000.00	Collection System SSMP									



Staff Report

TO: Board of Directors
FROM: Ed Waggoner
Operations Superintendent
SUBJECT: Monthly Report – April 2019
DATE: May 30, 2019

RECOMMENDATION

Receive Report-Informational only; no action required

DISCUSSION

Plant Operation

Treatment Plant:

- The treatment plant in general is working well with Operational staff adjusting the secondary process parameters for the irrigation season that started in April.
- Operations staff removed from service and drained the following basins during the month of April; Primary Clarifier #2, Secondary Clarifier #1, and Aeration Basins #5 & #6.
- Project # 18-09 Operations and Maintenance staff preparing Secondary Clarifier #1 for gear drive mechanism and bridge replacement in late May and early June. Followed by media blasting and coating of the launders, weirs, and sludge collection system.
- Project #18-10 Operations and maintenance staff preparing Aeration Basins #5 and # 6 to replace influent slide gates and install the Environetics Director II Tank baffle System in each Aeration Basin. The installation is schedule for the week of June 17th, 2019.

- April 2, Notre Dame High School from Salinas toured the treatment plant with 53 students attending.
- April 30th CAWD Management Staff toured the Food Slurry Debagging Project located at Johnson Canyon in Gonzales and operated by the Salinas Valley Solid Waste Authority (SVSWA). The purpose of the tour was to determine if CAWD could accept the food waste into the anerobic digester at the treatment facility. SVSWA is in the process of ordering and installing additional equipment so the food slurry can be transported by tanker truck to CAWD's food waste receiving station. A pilot program can be ready to start in late June or early July of 2019.

Reclamation:

- CAWD Staff continues working with H2O Innovations. The Reverse Osmosis programming is completed with the Microfiltration programming scheduled to be completed in late April. A signed contract with H2O innovations is schedule to be completed in mid-May for final connections to take place.
- Microfiltration and Reverse Osmosis started irrigation season on April 9th. Started Clean-in-Place (CIPs) of all Microfiltration and Reverse Osmosis membranes during the first 5 weeks of operation.

Training:

- Plant in-house training continues with weekly Safety meetings.
- Operations Superintendent moved the Friday training to Tuesday afternoon to accommodate personnel to the new operations work schedule. Training each week has Operations training (1 hour) on Operational Processes which is mandatory for Operations Staff and is available to Laboratory, Maintenance, Collection and any other CAWD employees.

Capital Improvement Phase 2

- Staff continues to communicate with Patrick Treanor (CAWD) on Phase 2 assessments of plant equipment and planning for the following areas; Influent Pump Station, Headworks, Blower Building, Chlor/Dechlor Building, Effluent Building, Digester No. 1, Digester No. 1 Control Building and Dewatering Building.

Meetings Attended

- Monterey County Water Awareness Committee meeting April 11th, 2019 at Monterey Peninsula Water Management District offices in Monterey.
- Monterey Water Works Association Board meeting April 11th in Moss Landing.
- Ed Waggoner and Greg Ange attended the Advisory Committee meeting for Gavilan College Water Program on April 17th for future water/wastewater classes.

Discharge Permit Violations

- No Reclamation Permit 93-72 discharge violations for the month of April 2019.
- No Violations on the NPDES (National Pollutant Discharge Elimination System) NPDES Number CA0047996, Order No. R3-2014-0012 for the month of April 2019.

FUNDING

N/A-Informational item only

Respectfully Submitted,
Edward Waggoner

STAFF REPORT



To: Board of Directors

From: Chris Foley, Maintenance Superintendent

Date: May 30, 2019

Subject: Monthly Maintenance Report – April 2019

RECOMMENDATION

Receive Report- Informational only; no action required.

DISCUSSION

Maintenance Projects in Progress

- Installation of the new Operations Building Programmable Logic Controller (PLC) is in progress. The new “OPS PLC” will replace the existing PLC-1 which is the main plant PLC. The conduit and control cabinet installations are being completed by Bryan Mailey Electric.
- The repair parts have arrived for the microturbine gas compression system. Staff is completing the repair and once completed the 30-kilowatt microturbine can be placed back online.
- Maintenance staff is working with Collections staff on upgrading the pump station ultrasonic level controllers. The new level controllers are replacing the existing obsolete model and will all be standardized on the same model.

Upcoming Maintenance Projects

- Maintenance staff is preparing for the replacement of the aeration basin 5 and 6 gates. This work requires installation of temporary scaffolding in the basins and a crane to remove the old gates and locate the new gates.
- Staff is working on preparations for the secondary clarifier coating and mechanical drive installation. The work will be completed by contractors with

staff oversight and support. Bryan Mailey Electric has completed a material list and is working with the vendor on electrical requirements.

Staff Development

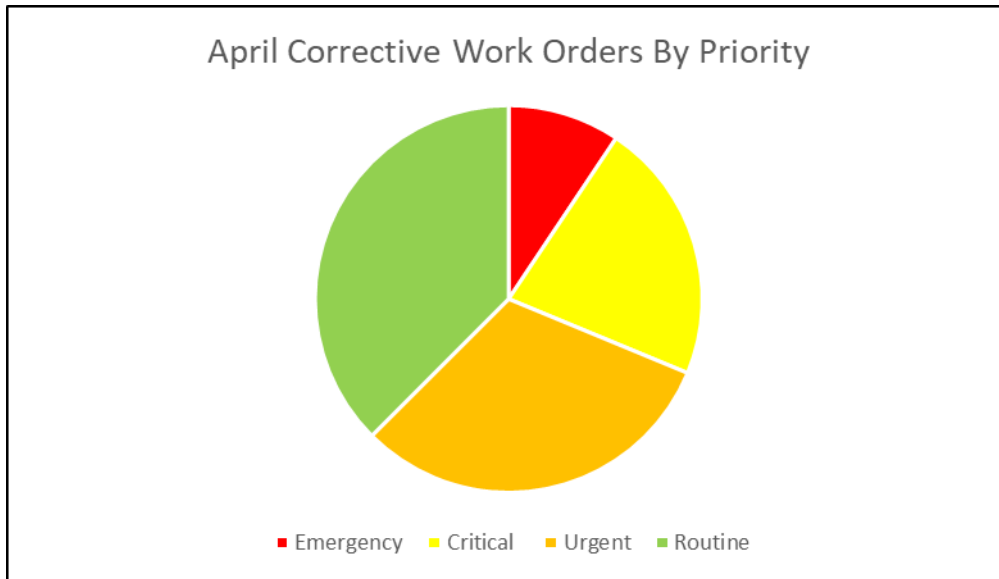
- Staff received onsite training on Variable Frequency Drive configuration. The training was provided Edges Electrical Distributors and Schneider Electric.

Work Order Metrics

Preventive Maintenance

Total Work Orders Generated	266
Total Work Orders Closed/Done	247
Total Work Orders Still Open	19
Percentage of Work Orders Completed	92.86%

Corrective Maintenance



Emergency	3
Critical	7
Urgent	10
Routine	12

FUNDING

N/A- Informational item only

STAFF REPORT



To: Board of Directors
From: Rachél Lather, Principal Engineer
Date: May 30, 2019
Subject: General Engineering

RECOMMENDATION

Receive Report- Informational only; no action required.

DISCUSSION

This report is provided to update the Board on current engineering activities.

General Engineering

The General Manager and Principal Engineer met with Carmel Valley Manor representatives in order to discuss funding of their sewer extension project and the status of the 2019 Annexation with Local Agency Formation Commission (LAFCO). MNS Engineers have the contract for the design work for Carmel Valley Manor and a project kick-off meeting is scheduled for May 28.

The contract with Denise Duffy and Associates for the 2019 Annexation project work has been signed and they are planning to schedule a kick-off meeting at the end of May.

Clear Peak Development has provided the funding for the due diligence engineering study of September Ranch water system by SRT Consultants (SRT). A project kick-off meeting occurred on April 17, 2019 and SRT is collecting and reviewing information as it is provided by Clear Peak. The District received two proposals for completing a rate study (Raftelis and Bartle Wells Associates) and Raftelis has been selected to do the work. Clear Peak has signed the agreement with the District to fund this work and a check has been received.

Dan Keig has not signed the agreement or provided funding for the Yankee Point Project design contract with MNS. The Principal Engineer continues to work with the General Manager to resolve this issue with Mr. Keig.

The Principal Engineer is continuing to work with the Corona Road representatives in order to facilitate their work to form an assessment district to connect to the District sewer system.

Collections

The Principal Engineer and General Manager participated in a conference call with California Office of Emergency Services (Cal OES) and Federal Emergency Management Agency (FEMA) on May 16, 2019 regarding the grant for replacement of the Hatton Canyon pipeline. They had questions regarding project details, requested copies of US Army Corps of Engineer's permit applications and submittals, and a copy of the current project plans. FEMA said that once they receive this information, we will be notified whether we are going to be awarded a grant for the project.

FUNDING

N/A- Informational item only

STAFF REPORT



To: Board of Directors

From: Rachél Lather, Principal Engineer

Subject: Contract Award Recommendation – Sewage Lift Station Control Panel Upgrades-Programmable Logic Control Equipment

Date: May 30, 2019

RECOMMENDATION

After review of the bid proposals, staff recommends that the Board of Directors:

- Adopt a resolution awarding a contract for the Sewage Lift Station Control Panel Upgrades-Programmable Logic Control (PLC) Equipment procurement in the amount of \$184,000.00 to the lowest qualified responsible bidder - Technical Systems Incorporated (TSI).
- Authorize the General Manager to sign and execute a contract with TSI for the equipment procurement.

DISCUSSION

The board approved Resolution No. 2019-13 on March 28, 2019 authorizing solicitation of bids for procurement of Sewage Lift Station Control Panel Upgrades-PLC Equipment. Four sealed bids were opened on May 8, 2019 at the District office. The following is a tally of the bids received:

BIDDER	BID AMOUNT
Engineer's Estimate	\$350,000
CALCON	\$201,910
Technical Systems Inc.	\$184,000

TESCO	\$274,000
The Automation Group (TAG)	\$186,657.61

The lowest qualified responsible bidder was determined to be Technical Systems Inc. Technical Systems Incorporated did PLC work at the CAWD Treatment Plant for both Phase 1 and 2 of the control panel upgrades. There were no issues with the previous work by TSI, and TSI has a good reputation as a PLC shop and system integrator. See bid tabulation from Technical Systems Inc. in Figure 1.

The Engineer's Estimate for the project was \$350,000 and was formulated from the PLC line item costs received for previous work. All bids were significantly below the Engineer's Estimate but were competitive between bidders. The lower bids are most likely due to the control panel designs being the same for all seven pump stations which can be set up and completed easily.

Figure 1: Technical Systems Inc. Bid Tabulation

Bid Item	Unit	Quantity	Unit Cost, Dollars	Cost, Dollars
1. Shop Drawing Submittals	1	LS	N/A	\$ 7,000.00
2. PLC Control Panels, complete, delivered to Carmel WWTP	7	LS	N/A	\$177,000.00
Total Bid Amount (Sum of all Work Items 1-2)				
Amount in Numbers	\$184,000.00			
Amount in Words	One Hundred and Eighty-Four Thousand Dollars			

FUNDING

The FY19/20 CAWD Collections Capital Budget includes \$600,000 for SCADA Replacement-All Pump Stations. The remaining funds will be used for installation and engineering support.

RESOLUTION NO. 2019-16

A RESOLUTION AWARDING A CONTRACT FOR THE SEWAGE LIFT STATION CONTROL PANEL UPGRADES – PROGRAMMABLE LOGIC CONTROL (PLC) EQUIPMENT PROCUREMENT IN THE AMOUNT OF \$184,000 TO THE LOWEST QUALIFIED RESPONSIBLE BIDDER – TECHNICAL SYSTEMS INCORPORATED (TSI) AND AUTHORIZING THE GENERAL MANAGER TO EXECUTE SAID CONTRACT

-oOo-

WHEREAS, the Board of Directors authorized solicitation for bids for procurement of Sewage Lift Station Panel Upgrades – PLC Equipment at the March 28, 2019 meeting with Resolution 2019-13; and

WHEREAS, there were four bids received at the bid opening on May 8, 2019 and the lowest responsible bid was determined to be Technical Systems Inc. (TSI); and

WHEREAS, the Engineers estimate for the project was \$350,000 and all bids were significantly less but were competitive between bidders.

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Carmel Area Wastewater District, that accepts and awards the lowest bid to TSI in the amount of \$184,000 and authorizes the General Manager to execute a contract with TSI for the equipment procurement.

PASSED AND ADOPTED at a regular meeting of the Board of Directors of the Carmel Area Wastewater District duly held on May 30, 2019 by the following vote:

AYES: BOARD MEMBERS:

NOES: BOARD MEMBERS:

ABSENT: BOARD MEMBERS:

President of the Board

ATTEST:

Secretary to the Board

STAFF REPORT



To: Board of Directors
From: Barbara Buikema, General Manager
Date: May 30, 2019
Subject: Reclamation Budget 2019-20

RECOMMENDATION

It is recommended that the Board of Directors adopt a resolution approving the CAWD/PBCSD Fiscal Year 2019-20 Reclamation Project Budget.

DISCUSSION

The CAWD/PBCSD Reclamation Project Fiscal Year 2019-20 Budget was approved at the Finance Officer's Working Group and Technical Advisory Committee group levels. Final approval was given by the Reclamation Management Committee (RMC) at its May 8, 2019 meeting. A copy of the Project 2019-20 Budget is attached.

Items approved by the RMC are brought to CAWD or PBCSD Board, as appropriate, for approval and any applicable resolution.

FUNDING

All Reclamation Project funding is covered by the Project or by the Pebble Beach Company and Independent Reclaimed Water Users Group, as project guarantors.

CAWD/PBCSD RECLAMATION
PROJECT

2019-20 BUDGET

Reviewed by Finance Officer's Work Group (FOWG) on April 26, 2019

Reviewed by Technical Advisory Committee (TAC) on May 1, 2019

Presented to Reclamation Management Committee (RMC) on May 8, 2019

CAWD/PBCSD Reclamation Project
2019-20

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**CAWD/PBCSD RECLAMATION PROJECT
2019-20 BUDGET SUMMARY**

	Actual 2017-18	Projected Actual 2018-19	2018-19 Budget	Proposed 2019-20 Budget	Inc/(Dec) Proj. Actual 18-19	Proposed to Budget 18-19
User Revenue						
Water Sales	3,075,040	2,784,704	2,784,704	2,826,801	1.51%	1.51%
Non Operating Share	3,253,262	3,811,820	3,811,820	4,048,615	6.21%	6.21%
Operating Expenses						
Plant Operating Expenses	1,357,335	1,836,671	2,010,584	2,008,963	9.38%	-0.08%
PBCSD Expenses	498,487	431,925	500,000	525,000	21.55%	5.00%
CAWD Admin. Expenses	78,339	91,073	76,523	88,384	-2.95%	15.50%
MPWMD Admin. Expenses	50,400	35,297	49,598	57,166	61.96%	15.26%
PBCo / IRWUG Expenses	47,715	48,595	48,000	50,539	4.00%	5.29%
Potable Water Costs	6,594	87,508	6,750	6,750	-92.29%	0.00%
MPWMD fee	83,816	103,398	100,000	90,000	-12.96%	-10.00%
	<u>2,122,686</u>	<u>2,634,467</u>	<u>2,791,455</u>	<u>2,826,801</u>	<u>7.30%</u>	<u>1.27%</u>
Operating Income/(Loss) before Amortization						
	4,205,616	3,962,057	3,805,069	4,048,615	2.18%	6.40%
Non Operating Revenues/(Expenses)						
Interest Income	(5,236)	22,350	32,425	27,850	24.61%	-14.11%
Bond Carrying Costs	(27,600)	(26,409)	(28,735)	(28,735)	8.81%	0.00%
Bank charges	(111)	(185)	(125)	(125)	-32.43%	0.00%
Interest to MPWMD	0	0	0	(29,500)	n/a	n/a
LC Carrying Costs	(121,690)	(105,926)	(112,020)	(93,228)	-11.99%	-16.78%
COP Interest Expense	(129,309)	(99,932)	(174,440)	(150,000)	50.10%	-14.01%
COP Principal Payment	(2,000,000)	(2,100,000)	(2,100,000)	(2,300,000)	9.52%	9.52%
Interest on Principal Advanced	(56,567)	(56,487)	(39,000)	(71,360)	26.33%	82.97%
Past LC fees/Bond Carry Cost	(552,000)	(552,000)	(552,000)	(552,000)	0.00%	0.00%
Other Revenue/(Expense)	86,574	(2,375)	0	0	-100.00%	n/a
	<u>(2,805,940)</u>	<u>(2,920,963)</u>	<u>(2,973,895)</u>	<u>(3,197,098)</u>	<u>9.45%</u>	<u>7.51%</u>
Income/(Loss) before Capital						
	<u>1,399,677</u>	<u>1,041,094</u>	<u>831,174</u>	<u>851,517</u>	<u>-18.21%</u>	<u>2.45%</u>
Capital Budget						
Purchases	129,507	31,031	176,054	38,879	25.29%	-77.92%
Improvement Projects	525,065	1,663,915	1,222,500	2,162,000	29.93%	76.85%
	<u>654,572</u>	<u>1,694,946</u>	<u>1,398,554</u>	<u>2,200,879</u>	<u>29.85%</u>	<u>57.37%</u>
Net Income/(Loss)						
	745,105	(653,852)	(567,380)	(1,349,362)	106.37%	137.82%
Contribution from MPWMD loan Rollover from Prior Year Capital*						
	0	0	0	1,000,000		
	0	567,380	567,380	349,362		
Balanced Net Income						
	<u>745,105</u>	<u>(86,472)</u>	<u>0</u>	<u>0</u>	<u>-100.00%</u>	<u>-100.00%</u>
Amortization Exp						
	1,617,720	1,617,720	1,592,200	1,600,000	-1.10%	0.49%

**CAWD/PBCSD RECLAMATION PROJECT
REVENUE PROJECTIONS
FY 2019-20**

Description	Acct. No.	Actual 2017-18	Estimated Actual 2018-19	2018-19 Budget	Proposed 2019-20 Budget	Comments
Revenue						
Interest Income - County	99906	20	28	200	100	O&M operating funds are on deposit with the County of Monte
Interest Income - Bank of America	99904	155	159	125	150	Water sales revenue funds are invested in money market acc
Interest Income- (O&M Reserve & Cap Repl)	99908	25,065	24,670	32,000	27,500	Renewal & replacement funds invested in highly rated comm'l
Gain (loss) on Securities	99936	(30,519)	(2,564)	0	0	
Interest Income - Union Bank (O&M)	99910	36	44	100	100	Payables account
Interest Income - Wells Fargo Escrow Acct	99912	8	14	0	0	
Other Revenue	99945	1,810	0	0	0	Product return - Allied Fluids
Water Sales (inc. late pmts)	52000	3,075,040	2,784,704	2,784,704	2,826,801	See schedule p. 17
Fixed Cost Charge		3,253,262	3,811,820	3,811,820	4,048,615	
MPWMD fees (8.325%)	53000	(83,816)	(103,398)	(100,000)	(90,000)	Increase due to resumption of Districts User Fee on Cal-Am b
TOTAL REVENUE		6,241,061	6,515,476	6,528,949	6,813,267	3.90% increase from 18-19 budget 4.11% increase from 18-19 Projected actual

Note 1: The origin of the 8.325% charge is based on the premise that all users of water provided by the Reclamation Project will pay the exact same cost as they would

**CAWD/PBCSD Reclamation Project
Operations and Maintenance Budget
Fiscal Year 2019-20**

ITEM	Acct No.	Actual 2017-18	Estimated Actual 2018-19	2018-19 Budget	Proposed 2019-20 Budget	Comments/Notes
PLANT OPERATING EXPENSES:						
Plant Salaries, Benefits & Overhead						
Plant Superintendent	61100	22,045	25,240	22,460	26,000	Based on 275 hours
Laboratory Supervisor	61200	36,372	31,002	40,310	31,935	Based on 575 hours
Laboratory Technicians	61300	53,519	62,399	55,865	64,275	Based on 1,500 hours
Plant Operators	61400	146,156	150,201	140,430	154,710	Based on 3,000 hours
Maintenance Supervisor	61450	3,350	11,871	11,415	12,230	Based on 450 hours
Maintenance Mechanics	61500	15,013	26,062	12,445	26,845	Based on 500 hours
Safety Officer		0	4,712	0	3,500	
Plant Engineer		0	0	30,000	15,000	Moved from CAWD Admin dept - Sulfuric acid project
Differential PR	62000	0	12,108	12,255	12,475	
Payroll Taxes, Benefits & Indirect Overhead	62100	11,419	161,797	162,590	173,484	
TOTAL PLANT SALARIES		287,874	485,392	487,770	520,453	COLA 3.0%
Energy Cost						
Tertiary Operations	63300	157,723	157,850	190,000	169,847	7.6% PG&E Projected Increase, start Coag/Floc & sand filters for irrigation season
MF/RO Pad	63400	199,049	221,641	225,000	238,486	7.6% PG&E Projected Increase
Secondary Costs - EQ Basin PD Blower	63500	150,569	148,362	170,000	159,638	7.6% PG&E Projected Increase
SUBTOTAL		507,341	527,853	585,000	567,970	
Chemical Costs:						
Polyaluminum chloride	64100	3,242	0	0	0	Clear logics Offline
Clearlogx PAX-XL19		8,595	0	0	0	Clear logics Offline
Aluminum chlorohydrate		3,648	0	0	0	Clear logics Offline
Clean-in-place chemicals						
Antiscalant	64200	12,528	16,059	24,000	20,000	on cleaning
Phenylarsine oxide	64400	20,055	24,963	23,865	25,700	3% increase, H2O recommendation as part of the RO recovery project
Acetate buffer solution	64420	1,087	827	850	900	Used for Chlorine Residual Titrations.
Iodine solution	64430	43	0	250	250	Used for Chlorine Residual Titrations.
Chlorine	65100	196	0	250	250	Used for Chlorine Residual Titrations.
Citric Acid	65160	1,147	0	0	0	Gas Chlorine no longer used at the facility
Sulfuric Acid	65170	7,340	7,316	7,000	8,000	Increase as staff is no longer using Phosphoric Acid on Maintenance washes on MF
Acetic Acid	65180	19,112	23,514	28,400	35,000	First full year of actual usage of the dosing system
Sodium Bisulfite	65200	781	484	1,030	600	Used for Chlorine Residual analyzers for discharge permit compliance
Sodium Hypochlorite	65250	33,121	65,283	55,000	57,200	4% cost increase from supplier, Purchasing timing
Polymer	65400	19,010	44,981	20,000	52,000	15.4% cost increase from supplier, Purchasing timing
		7,897	3,709	19,000	12,000	Used to coagulate MF waste flow to DAFT, and coagulant to MF
Gypsum						
Miscellaneous chemicals	65500	0	0	4,700	7,500	Rehabilitated Gypsum Silo, adding alkalinity to RO product water and pH adjustment
Potassium Hydroxide	65600	1,185	1,462	4,000	3,000	Misc solutions for analyzer chemicals and calibration chemicals
Potassium iodate solution	65700	93,109	46,033	110,000	80,000	Ph adjustment and adding alkalinity to RO product water
Potassium iodide		462	461	700	600	Chlorine testing
Ammonia Hydroxide	65800	1,840	1,839	3,000	2,250	Chlorine Analyzers
Phosphoric Acid	65900	46,873	59,847	70,000	70,000	Used in the chlorine channel to make chloroamines
		18,854	12,624	20,000	0	
Low Mag Ferric		0	17,725	30,000	30,000	Change name to Cerium Chloride as this is replacing the Low Mag Ferric. Used for
Enzymes		0	0	5,000	5,000	Phosphorus removal
SUBTOTAL		300,125	327,127	427,045	410,250	MF cleaning
Operating Supplies - Plant						

**CAWD/PBCSD Reclamation Project
Operations and Maintenance Budget
Fiscal Year 2019-20**

ITEM	Acct No.	Actual 2017-18	Estimated Actual 2018-19	2018-19 Budget	Proposed		Comments/Notes
					2019-20 Budget	2019-20 Budget	
Repairs & Maintenance	66100	86,873	91,686	90,000	90,000	90,000	General repairs of equipment including MF/RO support equipment and other repairs a
Plant Pumps	66190	4,682	17,254	20,000	20,000	20,000	Pump repair for MF/RO and support equipment, including Mix liquor Return Pumps
Laundry	66200	1,517	1,427	1,550	1,550	1,550	New contract with Cintas
Lubricants/Packing	66300	265	0	1,000	1,000	1,000	Various lubricants for motors, pumps and valves
Electrical Supplies	66400	7,575	15,605	5,000	5,000	5,000	Electrical PM supplies and parts
Laboratory Supplies	66500	34,804	30,239	38,084	39,600	39,600	4% increase, all chemicals and reagents for laboratory analysis for MF/RO
Paint	66600	0	0	2,000	2,000	2,000	Painting supplies for the MF/RO and Tertiary areas
Postage (Office Supplies)	67000	19	0	200	200	200	Shipping samples to outside laboratories
First Aid Supplies	67100	393	0	205	200	200	restocking First Aid Kits at MF/RO and Tertiary Areas
Janitorial Supplies	67100	0	355	300	300	300	Cleaning supplies for MF/RO and Tertiary Area
Tertiary Pump Alarm	67300	0	0	0	0	0	removal of gasoues chlorine system and chlorine leak alarms
Personnel Supplies	67400	0	132	1,030	1,030	1,030	Protective Nittle gloves, hand cleaner
Hand Tools	67600	70	151	1,030	1,030	1,030	Misc tool replacement, speciality tools for MF
Operating Supplies	67700	2,470	23,948	7,200	7,200	7,200	0
Safety	67800	2,462	3,214	0	0	4,000	Safety supplies requested by the Safety Officer
Training	67900	0	0	5,000	5,000	5,000	Specific MF/RO classes on operation improvement/Safety Training
		141,130	184,011	172,599	170,810	170,810	
Membrane Costs							
Microfilter Membrane Modules	67510	0	189,352	165,000	165,000	0	Membranes where replaced last year in all 3 cells
Annual Cartridge Filter Replacement	66700	8,902	8,159	10,600	10,000	10,000	
RO Membrane Elements	67500	1,972	0	0	0	180,000	For ESPA2-LD Ro Element or \$217,000.00 for the ESPA2-LD MAX RO elements, 40
Spare Parts & Outfitting	66750	0	13,719	19,000	15,000	15,000	Misc. parts for membrane installs and listed spare parts recommended by Mfr.
		10,874	211,230	194,600	205,000	205,000	
Contractual Services:							
Chemical Waste Disposal	68100	0	992	1,000	1,000	1,000	Removal of used or older chemicals from the Laboratory and MF/RO
Plant Instrumentation	68200	7,720	29,645	21,570	21,570	22,000	On-line equipment calibrations. Higher cost this year due to Capital items being exper
Fire Extinguisher Service	68300	0	0	720	720	720	13 fire extinguisher(9 on the pad and 4 in Tertiary Building)
Calibration	68400	733	3,802	14,000	14,000	9,050	DR 2800 (\$1,500.00 annual service, Myron L. (\$500.00) annual service, Laboratory B.
Contract Laboratory Analysis	68500	5,865	6,115	5,630	6,360	6,360	4% increase from Contract Laboratories
Contract Lab Staffing		0	0	0	0	0	
Gypsum Injection System Maintenance/Leas	68600	0	0	0	0	0	No longer leased, owned by Treatment Plant, costs reflected in 66100 Repairs and M
Contract Painting	68700	0	0	0	0	0	Moved to Capital Project list Tertiary Building Painting
System software/IT consulting	68710	7,894	11,129	49,950	49,950	27,100	MF/RO Proprietary software-PLCsetc. H2O Innovations remote monitoring of increase
SAR Equipment Maintenance	68720	3,034	4,253	3,500	3,500	4,000	Maintenance and repair for the Ion Chromotograph, No longer support by service con
Hoist Certification	68730	0	0	1,000	1,000	1,000	Traveling Hoist (2) On MF, 1 at Tertiary Building (2 ton Hoist)
Alarm-Tertiary Equipment	68900	234	238	200	200	250	First alarm monitoring of Tertiary system
Alarm - Chlorine Equipment	68910	0	0	3,500	3,500	0	No longer need as Gas Chlorine is no longer used at the facility
Ion Chromatograph- Annual Maintenance	69400	0	0	0	0	0	
Demolition		0	0	0	0	0	
Clearlogx rent		56,000	0	0	0	0	Not online this year
SUBTOTAL		81,480	56,174	101,070	71,480	71,480	
Fees & Permits							
Engineering Fees:	69100	2,222	2,222	12,500	12,500	8,000	Laboratory ELAP Fees (50/50 split with CAWD), annual Permit fees for Order No. 93
Consulting	69200	26,289	42,661	30,000	30,000	40,000	Trussell Technologies

**CAWD/PBCSD Reclamation Project
Operations and Maintenance Budget
Fiscal Year 2019-20**

ITEM	Acct No.	Actual 2017-18	Estimated Actual 2018-19	2018-19 Budget	Proposed 2019-20 Budget	Comments/Notes
Membrane Cleaning Pilot	69250	0	0	0	15,000	Full RO Autopsies of old RO membranes
Disposal expense	69350	0	0	0	0	
Demolition expense	69360	0	0	0	0	
SUBTOTAL		26,289	42,661	30,000	55,000	
TOTAL PLANT OPERATING EXPENSES		1,357,335	1,836,671	2,010,584	2,008,963	0.08% decrease from 18-19 budget 9.38% increase from 18-19 Projected actual
PEBBLE BEACH COM SVC DISTRICT DISTRIBUTION SYSTEM ADMIN & MAINT:						
Salaries, Benefits & Overhead						
General Manager	71000	0	0	0	0	
Principal Engineer	71100	8,413	9,713	7,500	11,000	
Deputy General Manager/CFO	71200	1,218	1,359	2,000	1,500	
Senior Accountant	71300	3,336	4,225	5,000	5,000	
Administrative Assistant	71400	358	385	500	500	
Finance & Info Sys Coordinator	71500	488	1,092	500	1,000	
Associate Engineers	71600	6,037	6,350	6,000	8,500	Calculated based on the estimated PBCSD Admin staff time for CAWD/PBCSD Recla
Intern (Temp Employee)		174	430	500	500	
Payroll Taxes , Benefits & Overhead	71800	9,840	11,777	11,000	14,000	
SUBTOTAL		29,864	35,331	33,000	42,000	
Other Administrative & General Expenses:						
Insurance - Property & Liability	72100	4,384	4,597	6,000	5,500	Property (\$3,000); Liability (\$2,500)
Insurance - Earthquake	72100	15,490	16,420	15,500	17,000	FL Reservoir (\$12,000) & Poppy Hills Storage Tank (\$5,000)
Insurance - Forest Lake Dam Failure Liabilit	72100	5,061	5,085	6,000	5,500	\$10M Coverage
Directors Fees	72200	200	400	500	500	2 Directors x 5 meetings/year x \$50 per meeting
SUBTOTAL		25,135	26,502	28,000	28,500	
Total Administrative & General Expenses		54,999	61,833	61,000	70,500	
Distribution System O&M. Expenses:						
Salaries, Benefits & Overhead:						
Field Maintenance Supervisor	73000	13,385	10,685	8,000	12,000	
Maintenance Technicians	73100	39,310	40,605	50,000	55,000	Calculated based on the estimated time to operate and maintain the Forest Lake Res
Payroll taxes, Benefits & Overhead	73200	26,432	25,645	29,000	33,500	The payroll taxes, benefits and indirect overhead is calculated at 50% as agreed upon
SUBTOTAL		79,127	76,935	87,000	100,500	
Energy & Utilities:						
Potable Water Pump Station - PG&E	74000	517	1,747	1,000	1,000	PBCSD pumps will be turned on during emergencies. PBCSD pays a minimum of 1%
SCADA System: DSL ATM / Telemetry Anal	74200	11,135	11,772	12,000	12,500	Monthly AT&T fee for lines between Potable Water Pump Station, Forest Lake, CAWI
Wireless Alarm Sys Chg (Mission)	74300	550	695	500	1,500	Annual maint agmt for Cell Phone Alarm System at Poppy Hills Storage Tank and PB
Forest Lake Treatment Facility (PG&E)	74400	33,773	38,748	40,000	45,000	Budgeted based on previous experience and anticipated operations (2019-20: include
Forest Lake Eyewash Station (CalAm)	74500	846	896	1,000	1,000	Budgeted based on previous experience. (2019-20: Updated description, as not only 1
Poppy Hill Booster Pump Station - PG&E	74600	1,298	1,414	1,500	1,500	Budgeted based on previous experience & anticipated operations
Catholic Protection	74700	1,157	1,498	1,500	1,500	2 locations: Forest Lake & Whitman Ln. Budgeted based on previous experience & e
		49,276	56,770	57,500	64,000	

Source Water / Dry Weather Diversion

**CAWD/PBCSD Reclamation Project
Operations and Maintenance Budget**

Fiscal Year 2019-20

ITEM	Acct No.	Actual 2017-18	Estimated Actual 2018-19	2018-19 Budget	Proposed 2019-20 Budget	Comments/Notes
Reclamation Source Water		81,618	400	1,000	5,000	Materials/Supplies for Recl Wells (MPCC#8/MPCC#9) 2019-20: Planned Pump repla
4th Fairway Dry Weather Diversion Facility		0	500	1,000	3,000	Materials/Supplies for PB Golf Links 4th Fairway Dry-weather Diversion Facility. 2019
Water Treatment Cost		66,687	70,000	85,000	70,000	(2) Locations @ MPCC / (1) 4th Fairway
SUBTOTAL		148,305	70,900	87,000	78,000	
Distribution System - Other O & M Expenses:						
Other professional services	75200	600	2,100	1,000	1,000	Mgmt Committee Mtg attendance & minutes
Permits	75300	18,986	22,757	16,000	25,500	1. SWRCB General Permit \$6,300 2. DSOD-Forest Lake Op Permit \$18,500 3. MBL
Fuel	75500	1,976	2,758	2,500	2,500	Estimated fuel use for vehicles and Viscaino Rd. pump station. 2019-20 storms nece
Training & Tuitions	75600	2,972	3,491	2,500	6,000	Maint & safety programs (regist/materials/travel/misc exp Membership & Cert) include
SCADA System software/IT consulting	75800	455	2,580	3,500	5,000	Maintenance, diagnostic & consulting svcs related to SCADA, GIS development (2019
Reclamation Line Distribution Sys	76300	1,529	10,000	15,000	10,000	Meter calibration & other general repairs and maintenance, materials, and supplies
Viscaino Rd/Poppy Hills Pump Station	76400	2,688	2,078	3,000	3,000	Previous Maint/Annual load bank test/Underground tank leak detect & general R&M
Call Out Mileage Expense	76500	1,271	1,613	2,000	2,000	Maintenance work performed after hours, weekends & holidays
Forest Lake Reservoir - R & M	76600	15,929	18,110	30,000	25,000	General/Emergency repairs to Forest Lake
Poppy Hills Storage Tank (2.5 million gallon	76700	360	0	10,000	5,000	Includes Cathodic Protection Inspection (every 3 yrs)/ Tank (15-pt) Inspection (every 3
Rescue & Safety Supplies & Equipment	76800	0	0	1,000	1,000	Protective gear & equip/life vests/rescue discs/safety signs/misc supplies
Forest Lake Chemicals	76900	34,744	40,000	50,000	45,000	Sulfuric Acid/Hypochlorite tablets. Actual costs based on water usage. Chemicals ne
RF Communication Sys for SCADA	77000	746	0	1,000	1,000	Supplies & equip purchases, Repairs and Maintenance
Forest Lake Reservoir - Materials & Supplie	77100	26,185	20,000	25,000	30,000	Supplies & equip: deployable probe, water sampling, piezometer, misc other (\$8K); C
SUBTOTAL		108,439	125,487	162,500	162,000	
Professional Fees - PBCSD:						
General Engineering - Consulting	76000	58,341	40,000	45,000	50,000	Gen Consult: Annual DSOD Report; for Lake Semi-Annual Monument Settlement Sur
Other Professional Services	75200	0	0	0	0	
SUBTOTAL		58,341	40,000	45,000	50,000	
Total Distribution System O & M Expenses		443,488	370,092	439,000	454,500	
TOTAL PBCSD EXPENSES.....		498,487	431,925	500,000	525,000	5.0% increase from 18-19 budget 21.55% increase from 18-19 Projected actual

**CAWD/PBCSD Reclamation Project
Operations and Maintenance Budget
Fiscal Year 2019-20**

ITEM		Actual 2017-18	Estimated Actual 2018-19	2018-19 Budget	Proposed 2019-20 Budget	Comments/Notes
CAWD ADMIN & GENERAL EXPENSES						
ADMINISTRATIVE SALARIES						
No.						
81000	General Manager	1,444	1,679	1,160	1,730	based on 25 hours
81200	Project Accountant	7,649	13,779	11,530	14,195	based on 265 hours
81100	Engineering Associate	9,607	6,144	3,495	0	
81400	Admin. Services Coordinator/Scanner	3,415	6,860	2,100	7,066	based on 30 hours
82100	Payroll Taxes, Benefits & Overhead	11,058	14,231	10,606	11,496	
	SUBTOTAL	33,174	42,692	28,891	34,487	COLA 3.0%
Administrative & General Expenses:						
84000	Office Supplies & Postage	0	0	0	0	
84100	Audit & Consulting Fees	17,500	17,900	18,000	20,000	
84200	Employee training	0	0	0	0	
85000	Directors Fees	900	1,050	1,200	1,200	4 meetings @ \$300
89400	Legal Notices	0	0	0	0	
	Legal Fees	918	792	0	0	Coastal Commission - Sea Level Rise draft review/revisions
89500	Insurance Expense	25,847	28,639	28,432	32,697	Estimate 15% over 18-19 projected actual per CSRMA
	SUBTOTAL	45,165	48,381	47,632	53,897	
	TOTAL CAWD EXPENSES	78,339	91,073	76,523	88,384	15.50% increase from 18-19 budget 2.95% decrease from 18-19 Projected actual
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT						
ADMINISTRATIVE EXPENSES:						
Administrative Salaries, Benefits & Overhead						
91000	General Manager	4,300	1,200	1,005	1,200	based on 10 hours
91200	Administrative Services Manager	6,123	3,800	2,710	4,500	based on 35 hours
91300	Accountant	3,200	3,500	2,520	4,140	based on 65 hours
91500	IT Manager	5,080	3,500	2,300	4,600	based on 40 hours
92100	Payroll Taxes, Benefits & Overhead	9,352	6,000	4,268	4,268	
	SUBTOTAL	28,055	18,000	12,803	18,708	COLA 3.0%
Administrative & General Expenses						
94300	CAL-Am Water Meter Service Charge	18,966	17,297	30,745	32,208	8" meter - assumes \$2,200*12*22%
99400	Legal Fees	0	0	2,500	2,500	
99410	Annual software maintenance	3,380	3,380	3,550	3,750	Software annual maintenance fee - assumes 5.6%
		22,345	20,677	36,795	38,458	
	TOTAL MPWMD EXPENSES	50,400	35,297	49,598	57,166	15.26% increase from 18-19 budget 61.96% increase from 18-19 Projected actual
PBCo / IRWUG Representative						
77520	Payroll Taxes, Benefits & Overhead	32,283	33,468	33,000	34,806	4% increase
77590	R&D Water Sources	14,592	15,127	15,000	15,732	
99965		841	0	0	0	
	SUB TOTAL	2,032,276	2,443,561	2,684,705	2,730,051	
POTABLE WATER COSTS						
99601		6,594	87,508	6,750	6,750	Project 100% reclaimed water use - no potable - includes service chgs/surcharges - 1
	TOTAL OPERATING EXPENSES	2,038,030	2,531,069	2,691,455	2,736,801	1.68% increase from 18-19 budget 8.13% increase from 18-19 Projected actual

CAWD/PBCSD Reclamation Project
Monthly Budget Projections
2019-20

ACCT No.	Jul-19 15.42%	Aug-19 14.79%	Sep-19 13.21%	Oct-19 10.28%	Nov-19 2.28%	Dec-19 1.36%	Jan-20 0.36%	Feb-20 1.09%	Mar-20 3.57%	Apr-20 9.03%	May-20 13.51%	Jun-20 15.09%	ANNUAL BUDGET 19-20
52000	1,060,524	1,016,641	908,394	706,529	156,519	93,619	24,867	74,602	245,749	621,102	929,166	1,037,705	6,875,417
2225	(15,425)	(14,787)	(13,212)	(10,276)	(2,276)	(1,362)	(362)	(1,085)	(3,574)	(9,034)	(13,514)	(15,093)	(100,000)
Less MPWMD Fees	1,045,100	1,001,854	895,182	696,253	154,242	92,257	24,506	73,517	242,175	612,068	915,651	1,022,612	6,775,417
61100	4,010	3,845	3,435	2,672	592	354	94	282	929	2,349	3,514	3,924	26,000
Laboratory Supervisor	4,926	4,722	4,219	3,282	727	435	116	347	1,141	2,885	4,316	4,820	31,935
Laboratory Technicians	9,914	9,504	8,492	6,605	1,463	875	232	697	2,297	5,806	8,686	9,701	64,275
Plant Operators	23,864	22,876	20,441	15,898	3,522	2,107	560	1,679	5,530	13,976	20,908	23,350	154,710
Maint Supervisor	1,886	1,808	1,616	1,257	278	167	44	133	437	1,105	1,653	1,846	12,230
Plant Mechanics	4,141	3,969	3,547	2,759	611	366	97	291	960	2,425	3,628	4,052	26,845
Safety Officer	540	518	462	360	80	48	13	38	125	316	473	528	3,500
Plant Engineer	2,314	2,218	1,982	1,541	341	204	54	163	536	1,355	2,027	2,264	15,000
Differential	1,924	1,845	1,648	1,282	284	170	45	135	446	1,127	1,686	1,883	12,475
Payroll Taxes & Benefits & OH	26,760	25,652	22,921	17,828	3,949	2,362	627	1,882	6,201	15,672	23,445	26,184	173,484
	80,279	76,957	68,763	53,483	11,848	7,087	1,882	5,647	18,603	47,016	70,336	78,552	520,453
63300	26,199	25,115	22,440	17,454	3,867	2,313	614	1,843	6,071	15,343	22,954	25,635	169,847
Tertiary Treatment	36,786	35,264	31,509	24,507	5,429	3,247	863	2,588	8,524	21,544	32,230	35,995	238,486
MFIRO Electrical	24,624	23,605	21,092	16,405	3,634	2,174	577	1,732	5,706	14,421	21,574	24,094	159,638
Secondary Costs - EQ Basin PD Blo	87,609	83,983	75,041	58,365	12,930	7,734	2,054	6,163	20,301	51,308	76,757	85,724	567,970
64100	0	0	0	0	0	0	0	0	0	0	0	0	0
Polyaluminum chloride	0	0	0	0	0	0	0	0	0	0	0	0	0
Clearlogx PAX-XL19	0	0	0	0	0	0	0	0	0	0	0	0	0
Aluminum chlorhydrate	0	0	0	0	0	0	0	0	0	0	0	0	0
Clean-in-place chemicals	3,085	2,957	2,642	2,055	455	272	72	217	715	1,807	2,703	3,019	20,000
Sodium hydroxide	0	0	0	0	0	0	0	0	0	0	0	0	0
Antiscalant	3,964	3,800	3,396	2,641	585	350	93	279	919	2,322	3,473	3,879	25,700
Phenylarsine oxide	139	133	119	92	20	12	3	10	32	81	122	136	900
Acetate buffer solution	39	37	33	26	6	3	1	3	9	23	34	38	250
Iodine solution	39	37	33	26	6	3	1	3	9	23	34	38	250
Chlorine	0	0	0	0	0	0	0	0	0	0	0	0	0
Citric Acid	1,234	1,183	1,057	822	182	109	29	87	286	723	1,081	1,207	8,000

CAWD/PBCSD Reclamation Project
Monthly Budget Projections
2019-20

ACCT No.	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	ANNUAL BUDGET 19-20
Sulfuric Acid	5,399	5,175	4,624	3,597	797	477	127	380	1,251	3,162	4,730	5,283	35,000
Acetic Acid	93	89	79	62	14	8	2	7	21	54	81	91	600
Sodium Bisulfite	8,823	8,458	7,557	5,878	1,302	779	207	621	2,045	5,167	7,730	8,633	57,200
Sodium Hypochlorite	8,021	7,689	6,870	5,344	1,184	708	188	564	1,859	4,698	7,027	7,848	52,000
Polymer	1,851	1,774	1,585	1,233	273	163	43	130	429	1,084	1,622	1,811	12,000
Gypsum	1,157	1,109	991	771	171	102	27	81	268	678	1,014	1,132	7,500
Miscellaneous chemicals	463	444	396	308	68	41	11	33	107	271	405	453	3,000
Potassium Hydroxide	12,340	11,829	10,570	8,221	1,821	1,089	289	868	2,859	7,227	10,811	12,074	80,000
Potassium iodate solution	93	89	79	62	14	8	2	7	21	54	81	91	600
Potassium iodide	347	333	297	231	51	31	8	24	80	203	304	340	2,250
Ammonia Hydroxide	10,797	10,351	9,249	7,193	1,594	953	253	760	2,502	6,324	9,460	10,565	70,000
Phosphoric Acid	0	0	0	0	0	0	0	0	0	0	0	0	0
Low Mag Ferric	4,627	4,436	3,964	3,083	683	408	109	326	1,072	2,710	4,054	4,528	30,000
Enzymes	771	739	661	514	114	68	18	54	179	452	676	755	5,000
	63,281	60,662	54,203	42,158	9,339	5,586	1,484	4,451	14,664	37,061	55,442	61,919	410,250
Repairs & Maintenance	13,882	13,308	11,891	9,249	2,049	1,225	326	977	3,217	8,130	12,163	13,584	90,000
Plant Pumps	3,085	2,957	2,642	2,055	455	272	72	217	715	1,807	2,703	3,019	20,000
Laundry	239	229	205	159	35	21	6	17	55	140	209	234	1,550
Lubricants/Packing	154	148	132	103	23	14	4	11	36	90	135	151	1,000
Electrical Supplies	771	739	661	514	114	68	18	54	179	452	676	755	5,000
Laboratory Supplies	6,108	5,855	5,232	4,069	901	539	143	430	1,415	3,577	5,352	5,977	39,600
Paint	308	296	264	206	46	27	7	22	71	181	270	302	2,000
Postage	31	30	26	21	5	3	1	2	7	18	27	30	200
First Aid Supplies	31	30	26	21	5	3	1	2	7	18	27	30	200
Janitorial Supplies	31	30	26	21	5	3	1	2	7	18	27	30	200
Tertiary Pump Alarm	0	0	0	0	0	0	0	0	0	0	0	0	0
Personnel Supplies	159	152	136	106	23	14	4	11	37	93	139	155	1,030
Hand Tools	159	152	136	106	23	14	4	11	37	93	139	155	1,030
Operating Supplies	0	0	0	0	0	0	0	0	0	0	0	0	0
Safety	617	591	528	411	91	54	14	43	143	361	541	604	4,000
Training	771	739	661	514	114	68	18	54	179	452	676	755	5,000
	26,347	25,257	22,568	17,553	3,888	2,326	618	1,853	6,105	15,430	23,084	25,780	170,810
Microfilter Membrane Modules	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual Cartridge Filter Replacement	1,542	1,479	1,321	1,028	228	136	36	109	357	903	1,351	1,509	10,000
RO Membrane Elements	27,765	26,616	23,782	18,497	4,098	2,451	651	1,953	6,434	16,261	24,326	27,167	180,000
Spare Parts & Outfitting	2,314	2,218	1,982	1,541	341	204	54	163	536	1,355	2,027	2,264	15,000

CAWD/PBCSD Reclamation Project
 Monthly Budget Projections
 2019-20

ACCT No.	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	ANNUAL BUDGET 19-20
	31,621	30,313	27,085	21,066	4,667	2,791	741	2,224	7,327	18,519	27,704	30,941	205,000
Chemical Waste Disposal	154	148	132	103	23	14	4	11	36	90	135	151	1,000
Plant Instrumentation	3,393	3,253	2,907	2,261	501	300	80	239	786	1,987	2,973	3,320	22,000
Fire Extinguisher Service	111	106	95	74	16	10	3	8	26	65	97	109	720
Calibration	1,396	1,338	1,196	930	206	123	33	98	323	818	1,223	1,366	9,050
Contract Laboratory Analysis	981	940	840	654	145	87	23	69	227	575	859	960	6,360
Gypsum Injection System Maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract Painting	0	0	0	0	0	0	0	0	0	0	0	0	0
System software/IT consulting	0	0	0	0	0	0	0	0	0	0	0	0	0
SAR Equipment Maintenance	4,180	4,007	3,581	2,785	617	369	98	294	969	2,448	3,662	4,090	27,100
Hoist Certification	617	591	528	411	91	54	14	43	143	361	541	604	4,000
Alarm - Tertiary	154	148	132	103	23	14	4	11	36	90	135	151	1,000
Alarm - Chlorine	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipment Rent - Ion Chromatograph	39	37	33	26	6	3	1	3	9	23	34	38	250
Demolition	0	0	0	0	0	0	0	0	0	0	0	0	0
85 Clerlogx rental	0	0	0	0	0	0	0	0	0	0	0	0	0
	10,871	10,422	9,312	7,243	1,604	960	255	765	2,519	6,367	9,525	10,637	71,480
Fees & Permits (MBUAPCD)													
Engineering Fees	1,234	1,183	1,057	822	182	109	29	87	286	723	1,081	1,207	8,000
Consulting	6,170	5,915	5,285	4,110	911	545	145	434	1,430	3,613	5,406	6,037	40,000
Membrane Cleaning Pilot	2,314	2,218	1,982	1,541	341	204	54	163	536	1,355	2,027	2,264	15,000
Disposal expense	8,484	8,133	7,267	5,652	1,252	749	199	597	1,966	4,969	7,433	8,301	55,000
	309,726	296,910	265,296	206,341	45,711	27,341	7,263	21,788	71,771	181,392	271,362	303,061	2,008,963
District Engineer	1,697	1,627	1,453	1,130	250	150	40	119	393	994	1,487	1,660	11,000
Deputy General Manager/CFO	231	222	198	154	34	20	5	16	54	136	203	226	1,500
Senior Accountant	771	739	661	514	114	68	18	54	179	452	676	755	5,000
Administrative Assistant	77	74	66	51	11	7	2	5	18	45	68	75	500
Finance & Info Sys Coordinator	154	148	132	103	23	14	4	11	36	90	135	151	1,000
Associate & Assistant Engineers	1,311	1,257	1,123	873	194	116	31	92	304	768	1,149	1,283	8,500
Intern (Temp Emp)	77	74	66	51	11	7	2	5	18	45	68	75	500

CAWD/PBCSD Reclamation Project
Monthly Budget Projections
2019-20

ACCT No.	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	ANNUAL BUDGET 19-20
71600	2,159	2,070	1,850	1,439	319	191	51	152	500	1,265	1,892	2,113	14,000
71800	6,478	6,210	5,549	4,316	956	572	152	456	1,501	3,794	5,676	6,339	42,000
72200	848	813	727	565	125	75	20	60	197	497	743	830	5,500
72100	2,622	2,514	2,246	1,747	387	231	61	184	608	1,536	2,297	2,566	17,000
72100	848	813	727	565	125	75	20	60	197	497	743	830	5,500
72100	77	74	66	51	11	7	2	5	18	45	68	75	500
	4,396	4,214	3,765	2,929	649	388	103	309	1,019	2,575	3,852	4,301	28,500
73000	1,851	1,774	1,585	1,233	273	163	43	130	429	1,084	1,622	1,811	12,000
73100	8,484	8,133	7,267	5,652	1,252	749	199	597	1,966	4,969	7,433	8,301	55,000
73200	5,167	4,954	4,426	3,443	763	456	121	363	1,197	3,026	4,527	5,056	33,500
	15,502	14,861	13,278	10,328	2,288	1,368	363	1,090	3,592	9,079	13,582	15,168	100,500
74000	154	148	132	103	23	14	4	11	36	90	135	151	1,000
74200	1,928	1,848	1,652	1,285	285	170	45	136	447	1,129	1,689	1,887	12,500
74300	231	222	198	154	34	20	5	16	54	136	203	226	1,500
74400	6,941	6,654	5,945	4,624	1,024	613	163	488	1,608	4,065	6,081	6,792	45,000
74500	154	148	132	103	23	14	4	11	36	90	135	151	1,000
74600	231	222	198	154	34	20	5	16	54	136	203	226	1,500
74700	231	222	198	154	34	20	5	16	54	136	203	226	1,500
	9,872	9,463	8,456	6,577	1,457	871	231	694	2,288	5,782	8,649	9,660	64,000
75200	154	148	132	103	23	14	4	11	36	90	135	151	1,000
75300	3,933	3,771	3,369	2,620	581	347	92	277	911	2,304	3,446	3,849	25,500
75500	386	370	330	257	57	34	9	27	89	226	338	377	2,500
75600	925	887	793	617	137	82	22	65	214	542	811	906	6,000
75800	771	739	661	514	114	68	18	54	179	452	676	755	5,000
76300	1,542	1,479	1,321	1,028	228	136	36	109	357	903	1,351	1,509	10,000
76400	463	444	396	308	68	41	11	33	107	271	405	453	3,000
	12,031	11,534	10,306	8,015	1,776	1,062	282	846	2,788	7,046	10,541	11,773	78,000
	771	739	661	514	114	68	18	54	179	452	676	755	5,000
	463	444	396	308	68	41	11	33	107	271	405	453	3,000
	10,797	10,351	9,249	7,193	1,594	953	253	760	2,502	6,324	9,460	10,565	70,000
	12,031	11,534	10,306	8,015	1,776	1,062	282	846	2,788	7,046	10,541	11,773	78,000
	154	148	132	103	23	14	4	11	36	90	135	151	1,000
	3,933	3,771	3,369	2,620	581	347	92	277	911	2,304	3,446	3,849	25,500
	386	370	330	257	57	34	9	27	89	226	338	377	2,500
	925	887	793	617	137	82	22	65	214	542	811	906	6,000
	771	739	661	514	114	68	18	54	179	452	676	755	5,000
	1,542	1,479	1,321	1,028	228	136	36	109	357	903	1,351	1,509	10,000
	463	444	396	308	68	41	11	33	107	271	405	453	3,000

CAWD/PBCSD Reclamation Project
Monthly Budget Projections
2019-20

ACCT No.	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	ANNUAL BUDGET 19-20
76500	308	296	264	206	46	27	7	22	71	181	270	302	2,000
76600	3,856	3,697	3,303	2,569	569	340	90	271	894	2,258	3,379	3,773	25,000
76700	771	739	661	514	114	68	18	54	179	452	676	755	5,000
76800	154	148	132	103	23	14	4	11	36	90	135	151	1,000
76900	6,941	6,654	5,945	4,624	1,024	613	163	488	1,608	4,065	6,081	6,792	45,000
77000	154	148	132	103	23	14	4	11	36	90	135	151	1,000
77100	4,627	4,436	3,964	3,083	683	408	109	326	1,072	2,710	4,054	4,528	30,000
	24,988	23,954	21,404	16,647	3,688	2,206	586	1,758	5,790	14,635	21,893	24,451	162,000
76000	7,712	7,393	6,606	5,138	1,138	681	181	543	1,787	4,517	6,757	7,546	50,000
	0	0	0	0	0	0	0	0	0	0	0	0	0
	7,712	7,393	6,606	5,138	1,138	681	181	543	1,787	4,517	6,757	7,546	50,000
	68,949	66,096	59,059	45,934	10,176	6,087	1,617	4,850	15,977	40,380	60,409	67,466	525,000
81000	267	256	229	178	39	24	6	19	62	156	234	261	1,730
81200	2,190	2,099	1,875	1,459	323	193	51	154	507	1,282	1,918	2,142	14,195
81100	0	0	0	0	0	0	0	0	0	0	0	0	0
81400	1,090	1,045	934	726	161	96	26	77	253	638	955	1,067	7,066
82100	1,773	1,700	1,519	1,181	262	157	42	125	411	1,038	1,554	1,735	11,496
82100	5,320	5,099	4,557	3,544	785	470	125	374	1,233	3,115	4,661	5,205	34,487
84000	0	0	0	0	0	0	0	0	0	0	0	0	0
84100	3,085	2,957	2,642	2,055	455	272	72	217	715	1,807	2,703	3,019	20,000
	0	0	0	0	0	0	0	0	0	0	0	0	0
85000	185	177	159	123	27	16	4	13	43	108	162	181	1,200
89400	0	0	0	0	0	0	0	0	0	0	0	0	0
89400	0	0	0	0	0	0	0	0	0	0	0	0	0
89500	5,043	4,835	4,320	3,360	744	445	118	355	1,169	2,954	4,419	4,935	32,697
	8,314	7,970	7,121	5,539	1,227	734	195	585	1,926	4,869	7,284	8,135	53,897
	13,633	13,069	11,677	9,082	2,012	1,203	320	959	3,159	7,984	11,944	13,340	88,384

CAWD/PBCSD Reclamation Project
Monthly Budget Projections
2019-20

ACCT No.	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	ANNUAL BUDGET 19-20
General Manager	185	177	159	123	27	16	4	13	43	108	162	181	1,200
Admin Services Manager	694	665	595	462	102	61	16	49	161	407	608	679	4,500
Accountant	639	612	547	425	94	56	15	45	148	374	559	625	4,140
Chief Tech Officer	710	680	608	473	105	63	17	50	164	416	622	694	4,600
Payroll Taxes & Benefits & O.H.	658	631	564	439	97	58	15	46	153	386	577	644	4,268
	2,886	2,766	2,472	1,922	426	255	68	203	669	1,690	2,528	2,824	18,708
CAL-Am Water Meter Svc. Chg.	4,968	4,762	4,255	3,310	733	439	116	349	1,151	2,910	4,353	4,861	32,208
Legal Fees	386	370	330	257	57	34	9	27	89	226	338	377	2,500
Software Maint Fees	578	554	495	385	85	51	14	41	134	339	507	566	3,750
	8,239	7,898	7,057	5,489	1,216	727	193	580	1,909	4,825	7,219	8,062	57,166
PBCo / IRWUG Representative	7,796	7,473	6,677	5,193	1,151	688	183	548	1,806	4,565	6,830	7,628	50,539
	408,343	391,446	349,767	272,041	60,266	36,047	9,575	28,725	94,623	239,148	357,765	399,556	2,730,051
	636,757	610,408	545,415	424,212	93,977	56,210	14,931	44,793	147,552	372,920	557,887	623,056	4,045,366
POTABLE WATER COSTS	1,041	998	892	694	154	92	24	73	241	610	912	1,019	6,750
	635,716	609,410	544,523	423,518	93,823	56,118	14,906	44,719	147,311	372,310	556,975	622,037	4,038,616
Interest Income - Reserve Funds	4,242	4,066	3,633	2,826	626	374	99	298	983	2,484	3,716	4,151	27,500
Interest Income- Union Bank	15	15	13	10	2	1	0	1	4	9	14	15	100
Interest Income - Well Fargo/Phase I	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Entitlements	0	0	0	0	0	0	0	0	0	0	0	0	0
Gain/(loss) on Mkt Value of Securities	0	0	0	0	0	0	0	0	0	0	0	0	0
Interest Income-County	15	15	13	10	2	1	0	1	4	9	14	15	100
Interest Income - Bank of Amer.	23	22	20	15	3	2	1	2	5	14	20	23	150
Other Income	0	0	0	0	0	0	0	0	0	0	0	0	0
Bank Charges - BoA	(19)	(18)	(17)	(13)	(3)	(2)	(0)	(1)	(4)	(11)	(17)	(19)	(125)
Bond Carrying Costs	(4,432)	(4,249)	(3,797)	(2,953)	(654)	(391)	(104)	(312)	(1,027)	(2,596)	(3,883)	(4,337)	(28,735)
O&M Reserve Funds	0	0	0	0	0	0	0	0	0	0	0	0	0

CAWD/PBCSD Reclamation Project
Monthly Budget Projections
2019-20

ACCT No.	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	ANNUAL BUDGET 19-20
Contribution to Capital Repl. Fund	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	(156)	(149)	(133)	(104)	(23)	(14)	(4)	(11)	(36)	(91)	(136)	(152)	(1,010)
Interest Income - Construction Fd.	0	0	0	0	0	0	0	0	0	0	0	0	0
Interest Income - Bond Fund	0	0	0	0	0	0	0	0	0	0	0	0	0
Interest Income - W.F.-Construct.	0	0	0	0	0	0	0	0	0	0	0	0	0
Loss on Disposal	0	0	0	0	0	0	0	0	0	0	0	0	0
Interest Expense - COP's	23,137	22,180	19,818	15,414	3,415	2,042	543	1,628	5,361	13,550	20,271	22,639	150,000
Principal Payment - COP's	(354,772)	(340,092)	(303,881)	(236,352)	(52,359)	(31,318)	(8,319)	(24,956)	(82,209)	(207,774)	(310,829)	(347,138)	(2,300,000)
L/C Carrying Costs	(14,380)	(13,785)	(12,317)	(9,580)	(2,122)	(1,269)	(337)	(1,012)	(3,332)	(8,422)	(12,599)	(14,071)	(93,228)
Amortization Expense	(246,798)	(236,586)	(211,395)	(164,419)	(36,424)	(21,786)	(5,787)	(17,361)	(57,189)	(144,539)	(216,229)	(241,488)	(1,600,000)
Arbitrage Rebate to IRS	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Income/(Expense)	0	0	0	0	0	0	0	0	0	0	0	0	0
Interest on Principal Advanced	(11,007)	(10,552)	(9,428)	(7,333)	(1,625)	(972)	(258)	(774)	(2,551)	(6,446)	(9,644)	(10,770)	(71,360)
Past LC fees/Bond Carry Cost payable	(85,145)	(81,622)	(72,931)	(56,724)	(12,566)	(7,516)	(1,997)	(5,990)	(19,730)	(49,866)	(74,599)	(83,313)	(552,000)
Subtotal	(688,966)	(660,457)	(590,135)	(458,994)	(101,682)	(60,819)	(16,155)	(48,465)	(159,650)	(403,496)	(603,629)	(674,141)	(4,466,588)
	(689,121)	(660,606)	(590,268)	(459,097)	(101,705)	(60,833)	(16,159)	(48,476)	(159,686)	(403,588)	(603,765)	(674,293)	(4,467,598)
	193,392	185,390	165,650	128,839	28,542	17,072	4,535	13,604	44,814	113,261	169,438	189,231	1,171,018

CAWD/PBCSD Reclamation Project
 Non-Operating Expenses
 Fiscal Year 2019-20

Acct No.	Actual 2017-18	Estimated Actual 2018-19	2018-19 Budget	Proposed 2019-20 Budget	Comments
99956	27,600	26,409	28,735	28,735	Bond Carrying Costs
					U.S. Bank (Admin fee) \$3,850
					U.S. Bank (Incidental fee) \$ 385
					Arbitrage Calculation - Yield Restriction (3-13 next due 3-23) \$0
					Moody's - annual fee \$5,000
					Standard & Poors - review credit rating \$3,500
					Stifel, Nicolaus & Co - quarterly \$16,000
					Total..... \$28,735
99952	111	185	125	125	Stop payments (0 @ \$20) & wire transfer fees (5 @ \$25)
99959	121,690	105,926	112,020	93,228	Estimated at \$7,769/mo
99958	129,309	99,932	174,440	150,000	Assumes 2.00% on \$7,500,000
22041	2,000,000	2,100,000	2,100,000	2,300,000	Per COP Schedule
99957	56,567	56,487	39,000	71,360	
22041	552,000	552,000	552,000	552,000	\$5,520,000 monthly through 2022 (10 years)
				29,500	Assume \$1M @ 2.95%, payable semi-annually
	84,764	2,375	0	0	
11.1	0	0	0	0	Goal \$2M in 2022 ; current balance \$1.1M
99962	1,617,720	1,617,720	1,592,200	1,600,000	
	4,589,761	4,561,034	4,598,520	4,824,948	4.92% increase from 18-19 budget
					5.78% increase from projected YTD 18-19 actual

Payment 07/01	Year
2,300,000	2020
2,400,000	2021
2,500,000	2022
2,600,000	2023
9,800,000	

CAWD/PBCSD Reclamation Project
 Capital Budget
 Fiscal Year 2019-20

CAWD/PBCSD Reclamation Project										FY 2019/20 thru 2024/25				
Project #	PROJECT	19/20	20/21	21/22	22/23	23/24	24/25	Unscheduled						
CAPITAL PROJECTS														
1	CAWD Sulfuric/Citric Chemical Storage and Feed Project	\$ 290,000												
2	CAWD Secondary Eff Diversion Flood Mitigations	\$ 25,000	\$ 25,000											
3	CAWD PLC Programming Update	\$ 50,000												
4	CAWD Sound Barriers for MF/RO Pad	\$ 35,000												
5	CAWD WWTP Phase 2 - Reclamation Share	\$ 32,000	\$ 160,000	\$ 160,000						\$ 300,000				
6	CAWD Filter Rehabilitation (Coag Floc Rehab)	\$ 30,000												
7	CAWD Asset Analysis		\$ 30,000											
8	CAWD Cathodic Protection Testing of Reclamation line		\$ 25,000											
9	CAWD Painting of Tertiary Building and Pad		\$ 25,000	\$ 25,000	\$ 25,000									
10	CAWD Floor Drain Improvements		\$ 15,000											
11	CAWD Ammonia Tank Replacement			\$ 75,000										
12	CAWD Cerium Chloride Bulk Tank				\$ 75,000									
13	CAWD Filter Feed Piping to MF permanet									\$ 400,000				
14	PBCSD Storage Tank Rehabilitation	\$ 1,600,000												
15	PBCSD Flow Meter Remote Measuring system (13)		\$ 100,000											
16	PBCSD MPCC Coastline Well													
CAPITAL PURCHASES														
a	CAWD Flygt Pump backup to filter feed to MF	\$ 30,000												
b	CAWD Ammonia Distillation Unit (50% CAWD)	\$ 17,758												
c	CAWD Laboratory Ion Chromatograph (10% CAWD)		\$ 150,000											
d	CAWD Laboratory Autoclave (50% CAWD)			\$ 16,000										
e	CAWD Laboratory Muffle Furnace (50% CAWD)			\$ 13,500										
f	CAWD Laboratory BOD Incubator (50% CAWD)			\$ 13,000										
g	PBCSD SCADA System Remote Hardware		\$ 80,000											
TREATMENT & DISPOSAL TOTAL		\$ 2,209,758	\$ 610,000	\$ 302,500	\$ 100,000	\$ -	\$ -	\$ 700,000						
RECLAMATION SHARE		\$ 2,200,879	\$ 595,000	\$ 281,250	\$ 100,000	\$ -	\$ -	\$ 700,000						
CAWD SHARE		\$ 8,879	\$ 15,000	\$ 21,250	\$ -	\$ -	\$ -	\$ -						
Total		\$ 2,209,758	\$ 610,000	\$ 302,500	\$ 100,000	\$ -	\$ -	\$ 700,000						

CAWD/PBCSD Reclamation Project

RECLAIMED & POTABLE WATER SALES

Total Water sales - excluding meter charges.

Year	Potable AF	Reclaimed AF	Total AF	Total Water Sales	Cost per AF	Annual Change
1994-95 (partial year)	n/a	n/a	675.863	780,669.00	\$1,155	
1995-96	277.00	726.56	1,003.56	1,142,810.00	\$1,139	46.39%
1996-97	372.00	689.00	1,061.00	1,291,410.00	\$1,217	13.00%
1997-98	166.31	626.00	792.31	960,924.43	\$1,213	-25.59%
1998-99	189.53	646.37	835.90	1,004,078.00	\$1,201	4.49%
1999-00	282.92	780.41	1,063.33	1,278,885.77	\$1,203	27.37%
2000-01	317.00	636.00	953.00	1,379,969.00	\$1,448	7.90%
2001-02	344.37	642.49	986.86	1,413,050.00	\$1,432	2.40%
2002-03	272.16	706.55	978.71	1,406,089.00	\$1,437	-0.49%
2003-04	486.60	810.31	1,296.91	2,158,690.00	\$1,664	53.52%
2004-05	240.79	684.36	925.15	1,544,984.00	\$1,670	-28.43%
2005-06	156.16	718.51	874.67	1,490,644.00	\$1,704	-3.52%
2006-07	161.21	883.00	1,044.21	1,891,132.53	\$1,811	26.87%
2007-08	128.92	1,061.01	1,189.93	2,235,363.00	\$1,879	18.20%
2008-09	56.00	980.00	1,036.00	1,915,828.00	\$1,849	-14.29%
2009-10	61.84	866.66	928.50	1,807,929.00	\$1,947	-5.63%
2010-11	0.00	867.00	867.00	1,840,264.00	\$2,123	1.79%
2011-12	0.00	977.00	977.00	2,344,687.00	\$2,400	27.41%
2012-13	0.00	964.00	964.00	4,315,770.67	\$4,477	84.07%
2013-14	0.00	1,039.00	1,039.00	5,420,192.00	\$5,217	25.59%
2014-15	0.00	1,001.30	1,001.30	5,379,027.00	\$5,372	-0.76%
2015-16	24.00	1,006.00	1,030.00	5,513,758.00	\$5,353	2.50%
2016-17	0.00	839.00	839.00	5,661,358.00	\$6,748	2.68%
2017-18	0.00	1,032.00	1,032.00	6,328,302.00	\$6,132	11.78%
2018-19 (est)	15.37	915.80	931.17	6,596,523.00	\$7,084	4.24%
2019-20	0.00	1,000.00	1,000.00	6,875,416.76	\$6,875	4.23%

Actual 2018-19	Potable AF	Reclaimed AF	Total AF	Total Water Sales	Cost per AF	Cost per AF Budget Variance
Jul-18	0.00	155.00	155.00	748,286.47	4,828.00	-0.3185
Aug-18	0.00	142.00	142.00	711,975.75	5,014.00	-0.2922
Sep-18	0.00	116.00	116.00	640,115.81	5,518.00	-0.2211
Oct-18	0.00	103.00	103.00	605,106.78	5,875.00	-0.1707
Nov-18	0.00	50.00	50.00	455,846.26	9,117.00	0.287
Dec-18	15.37	2.00	17.37	322,565.99	18,570.00	1.6214
Jan-19	0.00	4.00	4.00	329,558.74	82,390.00	10.6304
Feb-19	0.00	1.00	1.00	321,533.50	321,534.00	44.3888
Mar-19 est.	0.00	33.60	33.60	0.00	0.00	-1
Apr-19 est.	0.00	78.20	78.20	0.00	0.00	-1
May-19 est.	0.00	111.40	111.40	0.00	0.00	-1
Jun-19 est.	0.00	119.60	119.60	0.00	0.00	-1
YTD	15.37	915.80	931.17	4,134,989.30	4,441.00	-0.3731

Actual 2017-18	Potable AF	Reclaimed AF	Total AF	Total Water Sales	Cost per AF	Cost per AF Budget Variance
Jul-17	0.00	150.00	150.00	717,069.31	4,780.00	-0.3252
Aug-17	0.00	126.00	126.00	647,879.51	5,142.00	-0.2741
Sep-17	0.00	143.00	143.00	698,385.46	4,884.00	-0.3106
Oct-17	0.00	116.00	116.00	617,767.03	5,326.00	-0.2482
Nov-17	0.00	24.00	24.00	342,413.36	14,267.00	1.014
Dec-17	0.00	52.00	52.00	426,555.58	8,203.00	0.158
Jan-18	0.00	6.00	6.00	288,535.53	48,089.00	5.7884
Feb-18	0.00	40.00	40.00	390,457.71	9,761.00	0.3779
Mar-18	0.00	10.00	10.00	300,832.37	30,083.00	3.2466
Apr-18	0.00	53.00	53.00	427,819.40	8,072.00	0.1395
May-18	0.00	151.00	151.00	720,678.50	4,773.00	-0.3262
Jun-18	0.00	161.00	161.00	749,908.68	4,658.00	-0.3425
YTD	0.00	1,032.00	1,032.00	6,328,302.44	6,132.00	-0.1344

1 AF = 43,560 cu ft

Operating Costs - billed per AF usage	
Operating Expenses	2,736,801.28
MPWMD fee	90,000.00
	<u>2,826,801.28</u>
Estimated AF	1,000.00
Price per AF	2,826.80

Non Operating Costs - billed per Agreement %	
Non Operating Expenses	3,197,098.00
Capital Budget	2,200,879.00
Prior Yr Capital	(349,361.52)
Loan from MPWMD	<u>(1,000,000.00)</u>
	4,048,615.48

		Monthly
MPCC-Dunes	12.13%	40,907.89
MPCC-Shore	12.13%	40,907.89
Cypress Point	12.13%	40,907.89
Poppy Hills	12.13%	40,907.89
Pebble Beach	12.13%	40,907.89
Spyglass Hill	12.13%	40,907.89
Spanish Bay	12.13%	40,907.89
PB Range	3.63%	12,230.19
Peter Hay	3.50%	11,808.46
PB Resorts	3.50%	11,808.46
Equestrian Center	3.00%	10,121.54
Stevenson School	1.50%	5,060.77
	100.00%	337,384.62

CAWD/PBCSD Reclamation Project

Cash Flow Analysis

As of March 31, 2019

Projected to June 30, 2019

Unrestricted cash per Balance Sheet at 6-30-13		1,289,200.47
Net Income per Income Statement at 6-30-14		1,541,422.40
Net Income per Income Statement at 6-30-15		1,458,758.12
Net Income per Income Statement at 6-30-16		1,224,125.25
Net Income per Income Statement at 6-30-17		1,640,115.74
Net Income per Income Statement at 6-30-18		2,161,733.90
Net Income per Income Statement at 3-31-19		2,019,567.90
Amortization at 6-30-14	1,585,572.00	
Amortization at 6-30-15	1,589,847.00	
Amortization at 6-30-16	1,592,269.00	
Amortization at 6-30-17	1,607,679.00	
Amortization at 6-30-18	1,617,720.00	
Amortization at 3-31-18	0.00	
A/R at 3-31-19	(572,950.64)	
A/R at 6-30-13	1,518,947.77	
Other a/r at 3-31-19	(3,996.09)	
Other a/r at 6-30-13	15,337.58	
Capital at 3-31-19	(2,031,392.87)	
Capital at 6-30-13	8,104.11	
Water resale rights 3-31-19	(64,708,702.32)	
Water resale rights 6-30-13	63,232,989.26	
Restricted cash at 3-31-19	(1,156.36)	
Restricted cash at 6-30-13	1,136.12	
A/P at 3-31-19	280,376.98	
A/P at 6-30-13	(318,874.33)	
Due to MPWMD 3-31-19	56,917.00	
Due to MPWMD 6-30-13	0.00	
Accrual to Cash adjustments		5,469,823.21
PBCo COP payments FYE 6-30-14	(1,700,000.00)	
PBCo prior bond cost payments FYE 6-30-14	(552,000.00)	
PBCo working capital payments FYE 6-30-14	(1,641,213.00)	
PBCo COP payments FYE 6-30-15	(552,000.00)	
PBCo prior bond cost payments FYE 6-30-15	(1,700,000.00)	
PBCo COP payments FYE 6-30-16	(1,800,000.00)	

PBCo prior bond cost payments FYE 6-30-16	(552,000.00)	
PBCo COP payments FYE 6-30-17	(1,900,000.00)	
PBCo prior bond cost payments FYE 6-30-17	(552,000.00)	
PBCo COP payments FYE 6-30-18	(2,000,000.00)	
PBCo prior bond cost payments FYE 6-30-18	(552,000.00)	
PBCo COP payments at 3-31-19	(1,575,000.00)	
PBCo prior bond cost payments at 3-31-19	(414,000.00)	
Debt payments		(15,490,213.00)
Unrestricted Cash per Balance Sheet at 3-31-19		1,314,533.99
Unrestricted cash per Balance Sheet at 6-30-13		(1,289,200.47)
Increase (Decrease) in Unrestricted cash		25,333.52
Cash receipts-April estimated	380,000.00	
Cash receipts-May estimated	539,447.00	
Cash receipts-June estimated	679,581.00	
Cash disbursements-April estimated	(425,000.00)	
Cash disbursements-May estimated	(400,000.00)	
Cash disbursements-June estimated	(450,000.00)	
Estimated Increase (Decrease) in Unrestricted cash		<u>349,361.52</u>

**CAWD-PBCSD Reclamation Project
Budget 2019-20**

1 FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Project Name: Sulfuric/Citric Chemical Storage and Feed Project
Agency: CAWD
Total Cost: \$ 290,000
CY Budget \$ 290,000

Contact: Treanor
Area: MF/RO
Asset Type: Various
Avg Useful Lif: 15 Years
Est Residual Li: 15 Years
% Consumed: NA
Category: Capital Improvement
Urgency: High
Carry Forward: NA

Asset Description

The existing acid containment and storage at the Pad does not meet code requirements for separation of dissimilar chemicals that could create an exothermic reaction if inadvertently mixed. Furthermore, the volume of storage creates logistical issues and safety concerns with manually moving large totes of highly acidic chemicals. Trussell Engineers was contracted to design an adequate chemical storage and feed system for Sulfuric Acid and Citric Acid system. The design of the system includes concrete secondary containment walls, adequately sized tanks that can receive bulk chemical deliveries, and feed pumps for MF CIP and for RO feed pH adjustment. Upon completion of design this project would be put out for public bid.

Year Built: NA
Rehabilitation Date (Extending life of Asset): NA
Rehab Life Extension: NA

Justification

The existing citric and sulfuric acid systems are not built to code and are a safety concern. Having a fully designed and implemented system will address code issues and will also allow operators more ability to fine tune the pH adjustment upstream of the RO system in order to reduce scaling and increase recovery.

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor		\$ 100,000					\$ 100,000
Engineering		\$ 40,000					\$ 40,000
Parts & Supplies		\$ 150,000					\$ 150,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ 290,000	\$ -	\$ -	\$ -	\$ -	\$ 290,000

**CAWD-PBCSD Reclamation Budget
2019-20**

2 FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Contact: Treanor
Area: Secondary Effluent Diversion
Asset Type: Hatch
Avg Useful Lif 30 years
Est Residual Li NA
% Consumed I NA
Category: Capital Improvement
Urgency: Medium
Carry Forward: NA

Project Name: Secondary Eff Diversion Flood Mitigations
Agency: CAWD
Total Cost: \$ 50,000
CY Budget \$ 25,000

Asset Description

CAWD has recently completed a sea level rise study which noted a few low lying assets that need to be flood proofed in the near term. One of these assets is the Secondary Effluent Diversion Box which was built by the Reclamation project to divert flow to the Tertiary treatment system. The structure conveys water coming in and out of the Chlorine Contact Channels and includes hatches on the top of the structure at ground level. This project would entail installing a flood proof cover over the existing hatches to keep flood waters from leaking into the treated water.

Year Built: NA
Rehabilitation Date (Extending life of Asset): NA
Rehab Life Extension: NA

Justification

The Secondary Effluent Diversion Box was installed into the main conveyance system at the Chlorine Contact Channels. Adding flood tight covers is prudent to avoid flood waters leaking into the main conveyance system and potentially causing backups.

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor	\$	7,500	\$ 7,500				\$ 15,000
Engineering							\$ -
Parts & Supplies	\$	17,500	\$ 17,500				\$ 35,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total	\$	25,000	\$ 25,000	\$ -	\$ -	\$ -	\$ 50,000

**CAWD-PBCSD Reclamation Budget
2019-20**

3 FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Contact: Foley
Area: Tertiary/MF/RO
Asset Type: SCADA/PLC
Avg Useful Lif 15 years
Est Residual Li 0 years
% Consumed L 100%
Category: Maintenance
Urgency: High
Carry Forward: Yes

Project Name: PLC Programming Update
Agency: CAWD
Total Cost: \$ 50,000
CY Budget \$ 50,000

Asset Description

The PLC Programming is a critical aspect of the operation of the Reclamation facilities. Ongoing improvements and SCADA migration to the new SCADA system and PLC platform is required to maintain the system in good working condition. Programming to integrate various process improvements at Reclamation would be included in this budget item. These may include: Sand Filter integration work, and Sulfuric Acid/Citric Acid system programming which will be implemented in this fiscal year.

Year Built: 2000, 2010
Rehabilitation Date (Extending life of Asset): NA
Rehab Life Extension: 15 years

Justification

PLC programming updates are required to keep pace with operational changes and to maintain and optimize process control.

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering	\$ 50,000	\$ 50,000					\$ 50,000
Parts & Supplies							\$ -
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total	\$	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000

CAWD-PBCSD Reclamation Budget
2019-20

4 **FY 2019-20 Budget**
CAWD/PBCSD Reclamation Project

Contact: Treanor
Area: MF/RO
Asset Type: Miscellaneous
Avg Useful Lif: 10 years
Est Residual Li: NA
% Consumed: NA
Category: O&M
Urgency: High
Carry Forward: No

Project Name: Sound Barriers for MF/RO Pad
Agency: CAWD
Total Cost: \$ 35,000
CY Budget: \$ 35,000

Asset Description

The MF/RO Pad has a multitude of mechanical equipment that is relatively noisy. The MF/RO Pad does not have any walls which means that sound can carry out of the structure. This project would involve installing sound curtains around the North and West sides of the structure to mitigate noise escaping from this process area.

Year Built:
Rehabilitation Date (Extending life of Asset):
Rehab Life Extension:

Justification

Reduction of low dB sound occurring offsite.

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor	\$	10,000					\$ 10,000
Engineering							\$ -
Parts & Supplies	\$	25,000					\$ 25,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total	\$	35,000	\$ -	\$ -	\$ -	\$ -	\$ 35,000

**CAWD-PBCSD Reclamation Budget
2019-20**

5 FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Contact:
Area
Asset Type:
Avg Useful Life:
Est Residual Life:
% Consumed Life:
Category:
Urgency:
Carry Forward:

Project Name: WWTP Phase 2 - Reclamation Share
Agency: CAWD
Total Cost: \$ 352,000
CY Budget \$ 32,000

Asset Description

CAWD is currently working on design of electrical rehabilitation in the effluent building and the lab building. These projects included costs which are attributable to reclamation. Currently it is estimated that about 4% of the total project is attributable to Reclamation.

Year Built:
Rehabilitation Date (Extending life of Asset):
Rehab Life Extension:

Justification

The electrical improvements are required to address aging electrical in the Effluent Building which includes the RO Concentrate Effluent Pump. The project also includes providing a new power feed to the lab so that the lab equipment has automatic standby power from the main switchgear.

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering		\$ 32,000	\$ 160,000	\$ 160,000			\$ 352,000
Parts & Supplies							\$ -
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ 32,000	\$ 160,000	\$ 160,000	\$ -	\$ -	\$ 352,000

**CAWD-PBCSD Reclamation Budget
2019-20**

6 FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Contact: Waggoner
Area: Tertiary
Asset Type: Process Equip (Liquid)
Avg Useful Lif: 35
Est Residual Li: 10
% Consumed L: 57
Category: Capital equipment
Urgency: very important
Carry Forward: yes

Project Name: Filter Rehabilitation
Agency: CAWD
Total Cost: \$ 30,000
CY Budget \$ 30,000

Asset Description

The tertiary Coagulation/Flocculation, sand filter system. Which includes the sandfilters wash water equipment (Delta Stack Clarifier and sludge pumps).

Year Built: 1993
Rehabilitation Date (Extendng life of Asset): 2017-2019
Rehab Life Extension: 15 yars

Justification

To finish off the Rehabilitation of the sand filter reject wash water system to optimize the sandfilters for pretreatment to the Micro Filtration Process

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering							\$ -
Parts & Supplies	\$50,000.00	\$ 30,000					\$ 30,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ 30,000

CAWD-PBCSD Reclamation Budget
2019-20

7 **FY 2019-20 Budget**
CAWD/PBCSD Reclamation Project

Contact: Treanor
Area: Tertiary/MF/RO
Asset Type: NA
Avg Useful Lif: NA
Est Residual Li: NA
% Consumed I: NA
Category: Study
Urgency: Med
Carry Forward: No

Project Name: Asset Analysis
Agency: CAWD
Total Cost: \$ 30,000
CY Budget

Asset Description

The assets at the Tertiary Building and MF/RO Pad have not evaluated for condition and estimated remaining useful life in order to develop long term capital budget planning. This study would create an asset registry with remaining useful life and replacement cost estimates for long term planning.

Year Built: NA
Rehabilitation Date (Extendng life of Asset): NA
Rehab Life Extension: NA

Justification

Long Term Budget Planning

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering			\$ 30,000				\$ 30,000
Parts & Supplies							\$ -
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ -	\$ 30,000	\$ -	\$ -	\$ -	\$ 30,000

CAWD-PBCSD Reclamation Budget 2019-20

8 FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Contact: Treanor
Area Reclaimed Water Pipeline
Asset Type: Piping (Buried)
Avg Useful Lif 100 years
Est Residual Li 80 years
% Consumed L 20%
Category: Maintenance
Urgency: Med
Carry Forward: No

Project Name: Cathodic Protection Testing of Reclamation line
Agency CAWD
Total Cost: \$ 25,000
CY Budget \$ -

Asset Description

Cathodic protection is used to protect the Reclamation Pipeline. CAWD is responsible for maintenance of the Reclamation Pipeline on the CAWD WWTP property to the gate on the North Side of the River. The District will test the Cathodic protection system to maintain knowledge of the condition of the critical underground process piping and assess whether the existing cathodic protection system is functioning properly.

Year Built: 1992
Rehabilitation Date (Extending life of Asset): NA
Rehab Life Extension: NA

Justification

Underground process piping is difficult to assess due to the fact that it is buried and not visible. Maintaining the cathodic protection system helps to mitigate the chances of failure due to corrosion. Testing the cathodic protection system allows staff to understand how corrosion may be effecting buried infrastructure. Testing the cathodic protection system provides some information that is useful, but it doesn't provide all information needed to determine the condition of buried piping.

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering			\$ 25,000				\$ 25,000
Parts & Supplies							\$ -
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ 25,000

CAWD-PBCSD Reclamation Budget
2019-20

9 **FY 2019-20 Budget**
CAWD/PBCSD Reclamation Project

Contact: Waggoner
Area: Tertiary MF/RO
Asset Type: Building Machinery
Avg Useful Lif 20 years
Est Residual Li 3 years
% Consumed L 85
Category: Maintenance
Urgency: Important
Carry Forward: Yes

Project Name: Painting of Tertiary Building and Pad
Agency: CAWD
Total Cost: \$ 75,000
CY Budget \$ -

Asset Description

The Structures that house and equipment within thoses structures that require paint to protect the equipment from failure.

Year Built: 1993
Rehabilitation Date (Extendng life of Asset): N/A
Rehab Life Extension: N/A

Justification

To protect equipment from exposure to th weather and wash down activities by the operation staff. Removing rust and repainting both the structures, piping and machinery will prolong the life of all these assets.

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering							\$ -
Parts & Supplies			\$ 25,000	\$ 25,000	\$ 25,000		\$ 75,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ -	\$ 25,000	\$ 25,000	\$ 25,000	\$ -	\$ 75,000

CAWD-PBCSD Reclamation Budget
2019-20

10 FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Contact: Waggoner
Area MF/RO
Asset Type: Pipe (Process Buried)
Avg Useful Lif 30
Est Residual Li 20
% Consumed I 30
Category: Capital Improvement
Urgency: 3=Important
Carry Forward: Yes

Project Name: Floor Drain Improvements
Agency CAWD
Total Cost: \$ 15,000
CY Budget \$ -

Asset Description

The floor drains are located throughout the MF/RO structure to drain certain equipment and for house keeping in those areas where work is being performed.

Year Built: 2008
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: N/A

Justification

There are areas on floor of the MF/RO structure that accumulate water which is causing safety hazards from these wet/slippery areas. Improvements include saw cutting cement and placing in corrosion resistant prefabricated drainage channels and new catch basins.

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor			\$ 5,000				\$ 5,000
Engineering							\$ -
Parts & Supplies			\$ 10,000				\$ 10,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ -	\$ 15,000	\$ -	\$ -	\$ -	\$ 15,000

**CAWD-PBCSD Reclamation Budget
2019-20**

11 FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Contact: Waggoner
Area: Tertiary
Asset Type: Process Equip (Liquid)
Avg Useful Lif: 15
Est Residual Li: 2
% Consumed L: 87
Category: Capital Equipment
Urgency: Important
Carry Forward: yes

Project Name: Ammonia Tank Replacement
Agency: CAWD
Total Cost: \$ 75,000
CY Budget \$ -

Asset Description

Ammonia Storage tank with air scrubber unit that holds 1,500 gallons of Ammonia Hydroxide for chlormation of plant effluents.

Year Built: 2008
Rehabilitation Date (Extendng life of Asset): N/A
Rehab Life Extension: 2

Justification

The current Ammonia storage tank is reachng it's end of service life. Replacement with an updated tank and scrubber that meets current codes of CalOSHA requirments of the storage of Ammonia Hydroxide. Staff would like to upsize to a 2,000 double contained storage tank to reduce the number of deliveries through out the year.

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor				\$ 20,000			\$ 20,000
Engineering				\$ 10,000			\$ 10,000
Parts & Supplies				\$ 35,000			\$ 35,000
Chemicals							\$ -
Utility							\$ -
Other				\$ 10,000			\$ 10,000
Total		\$ -	\$ -	\$ 75,000	\$ -	\$ -	\$ 75,000

**CAWD-PBCSD Reclamation Budget
2019-20**

12 FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Contact: Waggoner
Area: Tertiary
Asset Type: Process Equip(Liquid)
Avg Useful Lif: 15
Est Residual Li: 3
% Consumed L: 80
Category: Capital equipment
Urgency: important
Carry Forward: yes

Project Name: Cerium Chloride Bulk Tank
Agency: CAWD
Total Cost: \$ 75,000
CY Budget \$ -

Asset Description

Currently, the bulk (500 gallon) plastic tank that was used for Ferric Chloride located on the Southwest side of the tertiary building.

Year Built:
Rehabilitation Date (Extending life of Asset):
Rehab Life Extension:

Justification

The old Ferric Chloride Tank is only 500 gallons and is not have double containment. To upgrade to double containment and install a larger tank 2,000 gallons. This 2,000 gallon tank would allow staff to purchase the Cerium Chloride in bulk at a reduced pricing. This tank would also eliminate the use of 250 gallon totes that the operation staff manually transports on the tertiary building floor.

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor					\$15,000		\$ 15,000
Engineering					\$ 10,000		\$ 10,000
Parts & Supplies					\$ 40,000		\$ 40,000
Chemicals							\$ -
Utility							\$ -
Other					\$ 10,000		\$ 10,000
Total		\$ -	\$ -	\$ -	\$ 75,000	\$ -	\$ 75,000

CAWD-PBCSD Reclamation Budget 2019-20

13 FY 2019-20 Budget

CAWD/PBCSD Reclamation Project

Project Name: Permanent Sand Filter Feed Effluent Piping to MF
 Agency: CAWD
 Total Cost: \$ 400,000
 CY Budget \$ -

Contact: Treanor
 Area: Tertiary
 Asset Type: Piping (buried)
 Avg Useful Lif: NA
 Est Residual Li: NA
 % Consumed I: NA
 Category: Capital Improvement
 Urgency: Unscheduled
 Carry Forward: No

Asset Description

CAWD has recently constructed a temporary piping system for conveying water from the Sand Filter Effluent to the MF System in order to test run these systems in series to reduce the load on the MF by removing suspended solids in the sand filters and to increase recovery in the RO by removing phosphorous via coagulation and flocculation upstream of the Sand Filters. The temporary conveyance piping installed will not have a long lifecycle and if the test operation works well it may be desirable to install more permanent conveyance infrastructure.

Year Built:

Rehabilitation Date (Extending life of Asset):

Rehab Life Extension:

Justification

This work is uncheduled pending results of pilot testing Coag/Flocc and Sand Filters. The justification would be for long term operation of the Coag/Flocc/Sand Filters upstream of the MF/RO facility if test runs show positive results in reducing loading of the MF membrane and increasing recovery of the RO system.

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering							\$ -
Parts & Supplies							\$ -
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

**CAWD-PBCSD Reclamation Budget
2019-20**

14 FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Contact: Becker
Area: Viscaino
Asset Type: Tank
Avg Useful Lif NA
Est Residual Li NA
% Consumed L NA
Category: Capital Improvement
Urgency:
Carry Forward: No

Project Name: Storage Tank Rehabilitation
Agency: PBCSD
Total Cost: \$ 1,600,000
CY Budget: \$ 1,600,000

Asset Description
Rehabilitation of the 2.5MG recycled water storage tank including structural repairs, cathodic protection replacement, and interior and exterior coating.

Year Built:
Rehabilitation Date (Extending life of Asset):
Rehab Life Extension:

Justification

Budget Impact/Other							
	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering		\$ 1,600,000					\$ 1,600,000
Parts & Supplies							\$ -
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ 1,600,000	\$ -	\$ -	\$ -	\$ -	\$ 1,600,000

CAWD-PBCSD Reclamation Budget
2019-20

15 **FY 2019-20 Budget**
CAWD/PBCSD Reclamation Project

Contact: Becker
Area: Irrigation System
Asset Type: Tank
Avg Useful Lif: NA
Est Residual Li: NA
% Consumed: NA
Category: Capital Improvement
Urgency: Unscheduled
Carry Forward: No

Project Name: Flow Meter Measuring System
Agency: PBCSD
Total Cost: \$ 100,000
CY Budget

Asset Description
Replace the irrigation meters and remote sensors on vault lids to allow recycled water meter readings to be electronically recorded without lifting the meter vault doors.

Year Built:
Rehabilitation Date (Extending life of Asset):
Rehab Life Extension:

Justification

Budget Impact/Other							
	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering			\$ 100,000				\$ 100,000
Parts & Supplies							\$ -
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ 100,000

**CAWD-PBCSD Reclamation Budget
2019-20**

16 FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Contact: Becker
Area: Source Wells
Asset Type: Wells
Avg Useful Lif NA
Est Residual Li NA
% Consumed I NA
Category: Capital Improvement
Urgency: Unscheduled
Carry Forward: No

Project Name: MPCC Coastline Well
Agency: PBCSD
Total Cost: \$ 100,000
CY Budget \$ 100,000

Asset Description

Drill well near MPCC coastline to augment water supply.

Year Built:
Rehabilitation Date (Extending life of Asset):
Rehab Life Extension:

Justification

Water supply

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering		\$ 100,000					\$ 100,000
Parts & Supplies							\$ -
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000

**CAWD-PBCSD Reclamation Budget
2019-20**

a **FY 2019-20 Budget**
CAWD/PBCSD Reclamation Project

Contact: Waggoner
Area Tertiary
Asset Type: Pump Station
Avg Useful Lif 15 years
Est Residual Li new
% Consumed I 0
Category: Capital Equipment
Urgency: 2=Very Important
Carry Forward: No

Project Name: Flygt Pump backup to filter feed to MF
Agency CAWD
Total Cost: \$ 30,000
CY Budget \$ 30,000

Asset Description

Feed (Back up) pump and controls to send Tertiary Filtered water from the Emergency Reject Sump to the Micro Filtration System.

Year Built: 2019
Rehabilitation Date (Extendng life of Asset): N/A
Rehab Life Extension: N/A

Justification

This pump will provide redundancy to the new flow process from the Coagulation/Flocculation system followed by Sand filtration to feed the Micro Filtration process.

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering							\$ -
Parts & Supplies		\$28,000					\$ 28,000
Chemicals							\$ -
Utility							\$ -
Other		\$ 2,000					\$ 2,000
Total		\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ 30,000

**CAWD-PBCSD Reclamation Budget
2019-20**

b FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Contact: Waggoner
Area: Misc Structures
Asset Type: Support Equipment
Avg Useful Lif: 15 years
Est Residual Li: 1 Years
% Consumed: 98%
Category: Capital Equipment
Urgency: 1=Critical
Carry Forward: No

Project Name: Ammonia Distillation Unit (50% CAWD)
Agency: CAWD
Total Cost: \$ 17,758
CY Budget: \$ 17,758

Asset Description

The Ammonia Distillation unit is used to digest ammonia in the wastewater to obtain a mg/L values that is used for plant process control for a the plant including anaerobic digestion. The same value results are used for the NPDES Permit on the ocean outfall line for both Secondary and Pollutants limitations.

Year Built: 3-Jan
Rehabilitation Date (Extending life of Asset): 18-Feb
Rehab Life Extension: 1 Year

Justification

The current Ammonia Distillation unit (Foss Kjeltec 2200) has been in operation since January 2003. The Foss North American, Inc. representative informed CAWD staff that Foss ended their support services and has no replacement parts available to purchase after 2018. CAWD staff recommends to purchase the current replacement model Foss Kjeltec 8200 distillation unit recommended by the manufacturer.
50% CAWD

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor		\$5,720					\$ 5,720
Engineering							\$ -
Parts & Supplies		\$11,130					\$ 11,130
Chemicals							\$ -
Utility							\$ -
Other		\$908					\$ 908
Total		\$ 17,758	\$ -	\$ -	\$ -	\$ -	\$ 17,758

**CAWD-PBCSD Reclamation Budget
2019-20**

c FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Contact: Waggoner
Area: Misc Structures
Asset Type: Support equipment
Avg Useful Lif: 10 years
Est Residual Li: 1 Year
% Consumed L: 97
Category: Capital Equipment
Urgency: 2+ Very Important
Carry Forward: Yes

Project Name: Laboratory Ion Chromatograph (10% CAWD)
Agency: CAWD
Total Cost: \$ 150,000
CY Budget: \$ -

Asset Description

The Ion Chromatograph unit is a Laboratory instrument used to analyze various chemical constituents for the process control and reporting for Reclamation Project.

Year Built: 5-Jul
Rehabilitation Date (Extending life of Asset): N/A
Rehab Life Extension: N/A

Justification

The Ion Chromatography unit is coming to the end of its useful life as outlined by the manufacturer service representative. The manufacture of Chromatography unit will stop supporting parts and services in the next two years. Once that support stops replacement parts and consumables will be difficult to obtain along with service request of the equipment.
10% CAWD

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering							\$ -
Parts & Supplies			\$150,000				\$ 150,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ -	\$ 150,000	\$ -	\$ -	\$ -	\$ 150,000

**CAWD-PBCSD Reclamation Budget
2019-20**

d FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Contact: Waggoner
Area: Misc Structure
Asset Type: Support Equipment
Avg Useful Lif: 20 years
Est Residual Li: 20 years
% Consumed L: 89
Category: Capital Equipment
Urgency: 3=Important
Carry Forward: yes

Project Name: Laborator Autoclave (50% CAWD)
Agency: CAWD
Total Cost: \$ 16,000
CY Budget: \$ -

Asset Description

The autoclave is used to conduct NPDES permit coliform tests and to destroy samples that are completed prior to disposal. It is essential to cc permit required analysis and maintain compliance with EPA and ELAP requirements.

Year Built: Jun-93
Rehabilitation Date (Extendng life of Asset): N/A
Rehab Life Extension: N/A

Justification

The autoclave unit has reached the end of the service life recommended by the manufacturer.
50% CAWD

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering							\$ -
Parts & Supplies				\$ 16,000			\$ 16,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ -	\$ -	\$ 16,000	\$ -	\$ -	\$ 16,000

**CAWD-PBCSD Reclamation Budget
2019-20**

e FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Contact: Waggoner
Area Misc Structures
Asset Type:
Avg Useful Lif 10 Years
Est Residual Li 3 years
% Consumed L 77
Category: Capital Equipment
Urgency: 3-Important
Carry Forward: Yes

Project Name: Laboratory Muffle Furnace (50% CAWD)
Agency CAWD
Total Cost: \$ 13,500
CY Budget \$ -

Asset Description

The muffle furnace is used in the laboratory to provide the Operations Department with process control data on the Volatile Total Suspended data from the percent volatile solids is used for monthly and annual NPDES reporting.

Year Built: 2011
Rehabilitation Date (Extending life of Asset): 16-Apr-16
Rehab Life Extension:

Justification

The muffle furnace was purchased during 2011 and repaired in 2016. The service report stated that this unit model is no longer produced and limited at this time.
50% CAWD

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering							\$ -
Parts & Supplies				\$ 13,500			\$ 13,500
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ -	\$ -	\$ 13,500	\$ -	\$ -	\$ 13,500

**CAWD-PBCSD Reclamation Budget
2019-20**

f FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Contact: Waggoner
Area: Misc Structures
Asset Type: Support Equipment
Avg Useful Lif: 10 years
Est Residual Li: 5 years
% Consumed: 80
Category: Capital Equipment
Urgency: 2=Very Important
Carry Forward: Yes

Project Name: Laboratory BOD Incubator (50% CAWD)
Agency: CAWD
Total Cost: \$ 13,000
CY Budget: \$ -

Asset Description

The BOD incubator is used to incubate the BOD analysis samples at a specific temperature of 20.0 C. This is a NPDES required analysis for and for CAWD NPDES permit.

Year Built: 2004
Rehabilitation Date (Extending life of Asset): 9-Jul-18
Rehab Life Extension: 2 years

Justification

The incubator was purchased in 2004 and remains operating 24 hours a day and is close to its average useful life. Service technicians replaced compressor in 2017 which can give the unit 2 to 3 years of useful service. The BOD analysis is a NPDES permit requirement making this a critical equipment in the laboratory to remain compliant to the permits.
50% CAWD

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering							\$ -
Parts & Supplies				\$ 13,000			\$ 13,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ -	\$ -	\$ 13,000	\$ -	\$ -	\$ 13,000

**CAWD-PBCSD Reclamation Budget
2019-20**

g FY 2019-20 Budget
CAWD/PBCSD Reclamation Project

Contact: Becker
Area: SCADA
Asset Type: Support Equipment
Avg Useful Life:
Est Residual Life:
% Consumed Life:
Category: Capital Equipment
Urgency: 2=Very Important
Carry Forward: Yes

Project Name: SCADA System Remote Hardware
Agency: PBCSD
Total Cost: \$ 80,000
CY Budget \$ -

Asset Description

Update of the SCADA System Hardware & Software at Reclamation facilities

Year Built:
Rehabilitation Date (Extending life of Asset):
Rehab Life Extension:

Justification

Budget Impact/Other

	Prior Yr	19-20	20-21	21-22	22-23	23-24	Total
Labor							\$ -
Engineering							\$ -
Parts & Supplies			\$ 80,000				\$ 80,000
Chemicals							\$ -
Utility							\$ -
Other							\$ -
Total		\$ -	\$ 80,000	\$ -	\$ -	\$ -	\$ 80,000

RESOLUTION NO. 2019-17

A RESOLUTION ADOPTING THE CAWD/PBCSD FISCAL YEAR 2019-20
RECLAMATION PROJECT BUDGET

-oOo-

WHEREAS, the attached CAWD/PBCSD Reclamation Project Fiscal Year 2019-20 Budget was approved at the Finance Officer’s Working Group and Technical Advisory Committee group levels and final approval was given by the Reclamation Management Committee (RMC) at its May 8, 2019 meeting; and

WHEREAS, items approved by the RMC are brought to the CAWD or PBCSD Board, as appropriate, for approval and any applicable resolution.

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Carmel Area Wastewater District that it does hereby adopt the attached CAWD/PBCSD Reclamation Project Fiscal Year 2019-20 Budget.

PASSED AND ADOPTED at a regular meeting of the Board of Directors of the Carmel Area Wastewater District duly held on May 30, 2019, by the following vote:

AYES: BOARD MEMBERS:

NOES: BOARD MEMBERS:

ABSENT: BOARD MEMBERS:

President of the Board

ATTEST:

Secretary of the Board

STAFF REPORT



To: Board of Directors

From: Patrick Treanor, Plant Engineer

Subject: Wastewater Treatment Plant Process Computer Modeling – Greeley and Hanson

Date: May 30, 2019

RECOMMENDATION

It is recommended that the Board of Directors adopt a resolution authorizing the General Manger to execute a Professional Services Agreement with Greeley and Hanson for development of a treatment plant process computer model in an amount not exceed \$49,720.

DISCUSSION

CAWD staff are continually seeking to further optimize the operation of the wastewater treatment plant. The CAWD facility is currently operated based on original design parameters and generally accepted wastewater treatment guidelines. Biological wastewater treatment is characterized by complex reaction kinetics which is not easily gleaned from operating under original design conditions and from operating experience alone. Further improvements to operator knowledge of the complex kinetics would be aided by development of a customized computer model of the treatment processes.

Treatment process modeling is a widely used tool for optimizing treatment plant functions and increasing the understanding of how changes in operating parameters and operating modes will affect the process. Modeling is conducted using proprietary software which was developed specifically for biological wastewater treatment plants.

One of the most widely used model software packages is “BioWin”. See attached brochure from BioWin for more information.

In order for the BioWin model to be verified CAWD will need to run more intensive influent and secondary effluent sample tests for 14 days to provide a suite of water quality data that will be used to calibrate the model. The current plan is for some of the additional sample tests to be conducted in-house and some sent out to a contract lab for analysis.

Once the initial model is built and verified CAWD would have the option to model potential changes to modes of operation in the model before implementing the changes in the plant. Future modeling would carry additional cost to have the consultant rerun the model under different conditions, or to purchase the software package so that model projections could be developed in house. The BioWin software currently costs \$8,000 for a perpetual license or about \$2,500 for annual subscription.

Attachment:

1. Proposal – Greeley and Hanson
2. BioWin Brochure

FUNDING

The funding for the modeling by Greeley and Hanson and for additional water quality testing would come from the Operations & Maintenance Budget – Admin Dept as follows:

2018-19	Budget Amount	Proposed Draw Down
Engineering #5500.007	\$125,000	\$25,000
Contingency #6070.007	\$ 70,000	\$24,720



50 California Street, Suite 1500
San Francisco, California 94111
p. 415 412 1380
www.greeley-hansen.com

April 22, 2019
Mr. Patrick Treanor
Plant Engineer
Carmel Area Wastewater District
3945 Rio Rd.
Carmel-By-The- Sea, CA 93922

Subject: Proposal to Perform Consulting Engineering Services to Develop and Validate Water Pollution Control Plant Process Model

Dear Mr. Treanor,

Thank you for the opportunity to provide this letter proposal in response to your request for Greeley and Hansen to provide the Carmel Area Wastewater District (CAWD) with a Proposal to Perform Consulting Engineering Services to Develop and Validate Water Pollution Control Plant Process Model. Based on our conversations with you, it is our understanding that the goal of this project is to develop and validate a process model of the CAWD Water Pollution Control Plant (WPCP). The benefits of an updated and fully-functioning process model are the ability to evaluate various scenarios (e.g. wet weather events, increased influent loading conditions) and outcomes (i.e. effluent quality) of those scenarios. A process model also allows CAWD to evaluate how new unit processes or modifications to the WPCP's liquid or solids stream will impact overall performance as well as optimize plant performance of the facility.

Background:

The CAWD Water Pollution Control Plant is a 3.0 million gallons per day (MGD) average annual permitted discharge flow facility that uses activated sludge for secondary treatment. The WPCP treats predominantly domestic wastewater. Current average dry weather flow (ADWF) is approximately 1.8 MGD which represents 60% of the permitted capacity or 45% of the design capacity (4.0 MGD). CAWD has an agreement with the Pebble Beach Community Services District (PBCSD) whereby PBCSD has access rights to one-third of the CAWD's WPCP capacity. Of the 1.8 MGD ADWF, approximately 1.2 MGD (67%) is from CAWD and 0.6 MGD from PBCSD (33%).

The proposed tasks to respond to CAWD's inquiry are listed below.

Task 1 - Data Collection

Task 1A - Collect Plant Operating and Infrastructure Data

Under this task Greeley and Hansen will utilize the CAWD WPCP's data for model development. Existing Monthly Operating Report (MOR) data (or similar) for the WPCP and as-built information will be the basis for the preliminary data analysis. A data request will be submitted by Greeley and Hansen and available information will be compiled and transmitted to Greeley and Hansen by CAWD. WPCP data of interest includes influent flows and loads, as well as operating data such as mixed liquor suspended solids (MLSS) concentration, return activated sludge (RAS) concentration and flow rate, etc. It is anticipated that three years of MOR data would be sufficient for modeling purposes. The data collected from the MORs will be plotted, categorized into dry weather and wet weather data, and subsequently analyzed.

Key Deliverables:

- Data request letter (via email)
- Data review summary

Schedule:

- Data request within 5 days of Notice to Proceed
- Data review summary within 30 days of receipt of available data

Task 1B - Additional Sampling for Waste Characterization

In addition to the MOR data, special sampling will be required to characterize the waste stream entering the WPCP. Additional sampling will be required to collect samples and analyze constituents that are not normally performed as a part of the normal plant operation. A general list of the parameters of interest is presented in the table below. These parameters provide a better description of the wastewater characteristics.

Sampling Parameter
Total Suspended Solids (TSS)
5-Day Biochemical Oxygen Demand (BOD ₅)
Carbonaceous Biochemical Oxygen Demand (cBOD)
Chemical Oxygen Demand (COD)
Filtered Flocculated COD (ffCOD)
Volatile Suspended Solids (VSS)
Total Kjeldahl Nitrogen (TKN)
Soluble Total Kjeldahl Nitrogen (sTKN)
Ammonia (NH ₃)
Nitrate + Nitrite (NO _x)
Alkalinity
Volatile Fatty Acids (VFA)

Greeley and Hansen will work with CAWD to generate a list of parameters and sampling locations that will be analyzed and examined. Greeley and Hansen will develop sampling protocols to perform sampling. CAWD will collect the required samples and CAWD will then perform the required laboratory analysis, either onsite or by an external certified laboratory. A minimum of fourteen (14) days of composite sampling is preferred for analyzing the parameters from the raw influent, primary, secondary, and final effluent. Costs for sampling and laboratory analysis are not included and are anticipated to be paid directly by CAWD.

Key Deliverables:

- List of parameters to be tested/analyzed, sampling locations and frequency of sampling

CAWD's Responsibility:

- Provide collection of required samples
- Perform laboratory analysis onsite (if feasible) or contract with offsite laboratory
- Provide copy of sampling analyses results to Greeley and Hansen

Schedule:

- Within 30 days of Notice to Proceed

Task 2 - Process Model

Task 2A - Development of Process Model

A process model, BioWin or GPS-X, will be used to model the WPCP and runs seasonal simulations (four simulations total) of the WPCP. Information obtained from Task 1 will be used to setup and calibrate the model. The model can also be used to develop a mass balance of the West WWTP in order to assess the potential solids production impacts of the WPCP on existing solids handling processes (not included in scope). Analyses may include, but are not limited to oxygen uptake rates, growth rates, and decay rates. The data collected from a sampling program will allow the model to be refined, calibrated, and validated based on the actual plant specific parameters.

Key Deliverables:

- Calibrated model
- Results of model scenarios
- Model development memorandum (draft and final)

Schedule:

- Within 30 days of Notice to Proceed

Task 3 - Site Visits and Workshops

At the start of the evaluation, the Greeley and Hansen team will visit with the WPCP staff to discuss the project and anticipated outcomes, discuss the available information that is already being collected by CAWD, and determine the need for additional sampling, as necessary. At the conclusion of the project, a final workshop to

discuss the findings and recommendations will be presented to CAWD staff. A total of three (3) in-person meetings are included in this scope of work.

Key Deliverables:

- Meeting/Workshop Agendas and Notes

CAWD's Responsibility:

- Attendance at meeting and Final Workshop

Task 4 - Project Management

Project management tasks will include project management, monthly project invoicing and budget management.

Our Team: Process Evaluation

Val S. Frenkel, PhD, PE, D. WRE will serve as the Project Manager with Ray David, PhD, PE as our lead process engineer. Technical and QA/QC support will be provided by Kam Law, PE.

Fee Structure:

The fee for the completion of the Tasks 1-4 as described herein will be completed for a lump sum fee of \$49,720.

Yours very truly,
Greeley and Hansen LLC



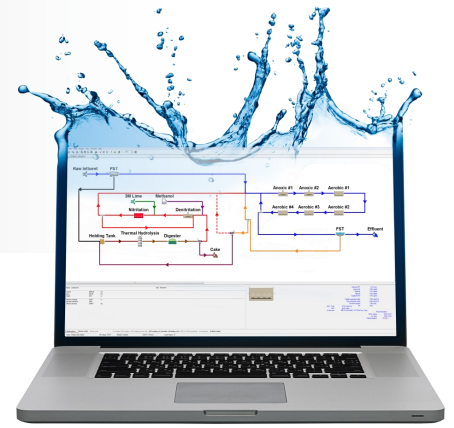
Val S. Frenkel, PhD, PE, D. WRE
Principal, Managing Director, Vice President of Process Engineering Group, and Project Manager

Proposal to Perform Consulting Engineering Services to Develop and Validate Water Pollution Control Process Model

Fee Structure

TASK ITEM	TO 3 - Development of a Whole Plant Process Model	Val S Frenkel (Project Manager)	Ray David (Lead Process Engineer)	Kam Law (Technical Advisor)	ODC's			Total	
		Hours	Hours	Hours	Travel	Print	Cost	Hours	Cost
	Rates	315	\$ 250	\$ 242					
TASK 1 - Data Collection		8	70	8	\$0	\$0	\$0	86	\$21,989
IA	Collect plant operating and infrastructure data-	4	40	4					
	1. Monthly Operating Data, influent and effluent loads (past three years) - collection and analysis								
	2. Summarize infrastructure data from as built								
IB	Additional Sampling for Waste Characterization-	4	30	4					
	1. Develop Sampling Plan								
	2. Analyze Sampling Data								
TASK 2 - Process Model Development		4	76	16	\$0	\$0	\$0	96	\$24,171
1	Model Development	4	76	16					
TASK 4 - Project Management		4	0	0	\$2,300		\$2,300	4	\$3,560
1	Project Management Tasks	4							
TOTALS		16	146	24			2300	186	\$ 49,720

BIOWIN



WHY BIOWIN?

BioWin wastewater process simulation software ties together biological, chemical, and physical process models to provide insight into the whole plant. BioWin simulations help engineers and operators make decisions that reduce capital and operating costs and ensure treatment objectives are met. BioWin has been a recognized leader in the simulation field for 25 years.

WHO USES BIOWIN?

BioWin is used around the world by:

- Consulting engineers
- Infrastructure owners (e.g. cities, regional municipalities, water authorities)
- Equipment manufacturers / suppliers
- Wastewater treatment plant operations companies
- Academic institutions

WHAT IS BIOWIN USED FOR?

BioWin is used to:

- Select optimal treatment processes
- Reduce capital investment
- Explore strategies for reducing wastewater treatment plant energy consumption and operating costs
- Evaluate expansion of existing treatment plants
- Make daily decisions about plant operation
- Teach students and operators fundamental wastewater treatment concepts
- Build model extensions and conduct research into emerging technologies



THE ENVIROSIM TEAM

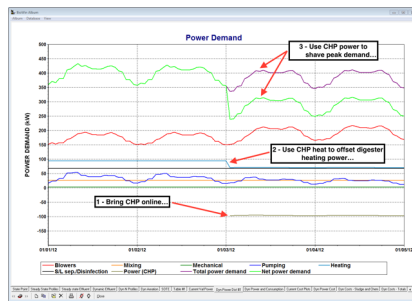
Together, over 100 years of wastewater process modeling experience.
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BIOWIN

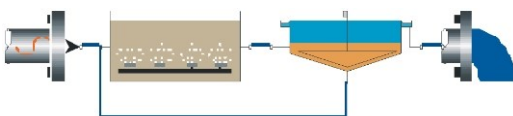
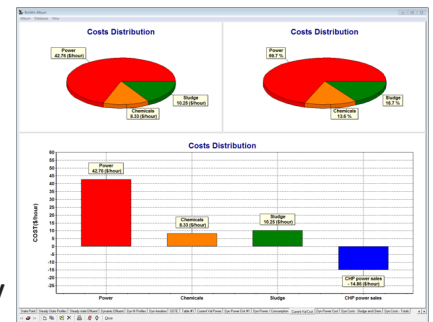


BIOWIN KEY FEATURES

- Integrated activated sludge / anaerobic digestion model enables whole-plant modeling from influent to effluent
- Most accurate and intensively researched biological model reduces required calibration effort
- Largest and most extensive number of state variables and components tracked
- Modeling of anaerobic ammonia oxidizing bacteria for investigation of side- and main-stream deammonification strategies
- Calculation of blower power requirements, taking into account factors such as inlet air temperature and relative humidity and pressure losses in the air delivery system



- Ability to explore onsite power generation and heat recovery via CHP
- Easily implement up to three different daily electricity tariff rates; these patterns can be different across two “seasons” (e.g. summer and winter)
- Comprehensive and system wide pH model
- Chemical and biological P removal
- Spontaneous struvite precipitation
- Comprehensive gas transfer modeling
- Model development capability (Model Builder)



EnviroSim
ASSOCIATES LTD.

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RESOLUTION NO. 2019-18

A RESOLUTION AUTHORIZING THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH GREELEY AND HANSON FOR DEVELOPMENT OF A TREATMENT PLANT PROCESS COMPUTER MODEL IN AN AMOUNT NOT TO EXCEED \$49,720

-oOo-

WHEREAS, the District is continually seeking to optimize the operation of the wastewater treatment plant and recognizes that process modeling is a widely used tool for optimizing plant functions and increasing understand of how changes in operating parameters and operating modes will affect the process; and

WHEREAS, staff recommends the District engage Greeley and Hanson for the development of a treatment plant process computer model in an amount not to exceed \$49,720.

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Carmel Area Wastewater District, that it is convinced of the value of process computer modeling to optimize the plant and does hereby authorize the General Manager to enter into a contract with Greeley and Hanson in an amount not to exceed \$49,720 to provide a treatment plant process computer model.

PASSED AND ADOPTED at a regular meeting of the Board of Directors of the Carmel Area Wastewater District duly held on May 30, 2019 by the following vote:

AYES: BOARD MEMBERS:

NOES: BOARD MEMBERS:

ABSENT: BOARD MEMBERS:

President of the Board

ATTEST:

Secretary to the Board

STAFF REPORT



To: Board of Directors

From: Rachél Lather, Principal Engineer

Subject: FY 2019/2020 Sewer line Replacement Project
Monte Verde Extension and 2nd Avenue

Date: May 30, 2019

RECOMMENDATION

It is recommended that the Board of Directors approve a resolution to authorize staff to solicit bids for replacement of 380 feet of 6-inch diameter vitrified clay pipe with 8-inch diameter Polyvinyl Chloride (PVC) pipe.

DISCUSSION

The sewer line along Pescadero Creek is in extremely poor condition and is a high priority line for replacement. Recently, CAWD staff were alerted that the homeowners of the section of pipeline at the end of Monte Verde Road were planning to repave their private road. In order to be able to replace this section of the line without cutting into the new road, staff requested that the homeowners delay the work in order to allow CAWD to replace the 380 feet of sewer line.

The plans and specifications of the sewer line replacement have been prepared by the Principal Engineer. If approved, staff will open bids on July 18, 2019 and present a recommendation for award of an equipment contract to the lowest responsible bidder at the Board's July 2019 meeting. It is anticipated that a Notice to Proceed will be issued in August 2019 and the work will commence after Labor Day. All work is required to be completed by October 15, 2019.

The project plans and specifications are available for review at the CAWD office.

FUNDING

The FY19/20 CAWD Collections Department Operations & Maintenance Budget includes \$125,000 for sewer line repairs. The Engineer's estimate for the project to be constructed under this contract is \$80,000. All will be funded from the CAWD budget. Actual costs will depend on bids received.

RESOLUTION NO. 2019-19

RESOLUTION AUTHORIZING INVITING BIDS FOR "2019/20 SEWER LINE REPLACEMENT PROJECT- MONTE VERDE EXTENSION AND 2ND AVENUE"

-oOo-

WHEREAS, the Board of Directors has received and reviewed staff's report regarding the sewer line replacement project invitation for bids;

WHEREAS, the plans and specifications for said work are on file and have been discussed this date with the Board by the District Manager;

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Carmel Area Wastewater District, as follows:

1. That the sewer line replacement plans and specifications are hereby authorized for bidding.
2. That sealed proposals or bids are hereby called for with regard to the aforesaid Project.
3. That the Secretary of the Board of Directors of the District is hereby directed to publish a Notice requesting bids for the aforesaid "FY 2019/20 Sewer Line Replacement Project- Monte Verde Extension and 2nd Avenue" once a week for two (2) consecutive weeks in a newspaper of general circulation published in the District. Said publications shall not be less than five (5) days apart and the first publication shall be at least ten (10) days before the date fixed for the opening of bids. Said Notice shall refer to the plans and specifications on file in the office of the District Secretary.
4. Sealed proposals or bids shall be delivered to the Secretary of the Board of the Carmel Area Wastewater District on or before the time and date specified in the published Notice, at the office of the District, 3945 Rio Road, Post Office Box 221428, Carmel, California, 93922, said time being not less than ten (10) days from the time of the first publication of the Notice. Bids will be publicly opened and examined on said

date and hour by the District Secretary and will be referred to and considered by the Carmel Area Wastewater District Board at its next regular meeting following the opening of the bids in the Board Room of the District Office, 3945 Rio Road, Carmel, California.

PASSED AND ADOPTED at a regular meeting of the Board of Directors of the Carmel Area Wastewater District duly held on May 30, 2019 by the following vote:

AYES: BOARD MEMBERS:

NOES: BOARD MEMBERS:

ABSENT: BOARD MEMBERS:

President of the Board

ATTEST:

Secretary to the Board

STAFF REPORT



To: Board of Directors

From: Chris Foley, Maintenance Superintendent

Date: May 30, 2019

Subject: Contract with ERS Industrial Services, Inc. for Coatings for the Project 18-09 Secondary Clarifier No. 1 Rehabilitation and 2018-19 Budget Amendment in the amount of \$18,948.

RECOMMENDATION

It is recommended that the Board of Directors authorize

- Award a contract to ERS Industrial Services, Inc in an amount not to exceed \$127,190
- Authorize the General Manager to enter into contract with ERS Industrial Services, Inc for said contract.
- Authorize a budget amendment for an additional \$18,948 from Capital Reserves to complete project.
- Authorize a revision to Resolution #2018-28 approved July 26, 2018 to reflect the changed conditions.

DISCUSSION

The District budgeted \$250,000.00 in FY18-19 for the clarifier rehabilitation project which included not only the coating work described herein, but also replacement of the center drive mechanism and bridge. A request to proceed with the coating work was presented as part of the overall project and was approved by the board at the July 26th, 2018 board meeting (Resolution #2018-28).

In July 2018 the costs were presented as follows:

Description	Amount
Equipment	\$117,896
Coating/painting/blasting	\$ 72,000
Electrical work	\$ 18,000
Contingency	\$ 10,000
<i>Total</i>	\$217,896

Subsequent to the approval of Resolution #2018-28 the coating/painting work was formally bid and we have now refined the total costs. Staff is therefore requesting a revision to Resolution #2018-28.

The tasks included in this portion of the project are as follows:

- Abrasive blasting to bare metal of all the metal components inside the clarifier.
- Installation of dust controls and containment of the whole clarifier.
- Shrink wrapping of the new clarifier bridge and mechanical drive to protect the machinery.
- Removal and reinstallation of piping and conduits.
- Coating of all the metal components below and above waterline with an Amine Cure spray applied epoxy.

The coatings bid was publicly advertised and sent to multiple vendors. Only one bid was received. Staff requested a bid history from Monterey One Water to assess the quality of the bid. Monterey One Water responded with the bid history of the last two secondary clarifier coatings completed and the cost was \$95,000 and \$140,000 for their similar work that was completed 3 to 4 years ago. Based on this comparison staff is confident that the bid is reasonable for the specified work.

FUNDING

The estimated total cost of the project includes:

Description	Amount
Purchase & installation of the bridge and clarifier drive components	\$126,758
Electrical work	\$ 15,000
Blasting & Protective Coating Work	\$127,190
<i>Total</i>	\$268,948
2018-19 Budget	\$250,000
<i>Difference</i>	\$ 18,948

The 2018-19 Capital Budget Project 18-09-Secondary Clarifier No. 1 Rehabilitation with the additional \$18,948.00 allocated from reserves.

PROPOSAL

District Board
Carmel Area Wastewater District
P. O. Box 221428
3945 Rio Road
Carmel, CA 93922

Ladies/Gentlemen:

Pursuant to the published Notice Inviting Sealed Proposals, the undersigned hereby proposes and binds themselves on award by the District Board of the Carmel Area Wastewater District, under the proposal to execute in accordance with such award, a contract, with necessary bonds, of which this Proposal, the Notice Inviting Sealed Proposals and the Specifications shall be a part, to furnish any and all required labor, material and services for performing, and completing the work set forth in the said Specifications within the time hereinafter set forth and at the prices named in this proposal as follows:

Note: Give both unit price and extended total. Prices must be stated in units to quantity specified in the bid specifications.

LS – Lump Sum; SqFt – Square Foot; LFt – Linear Foot; Each – Each item

In case of discrepancy in computing the amount of the bid, the unit price quoted will govern and the total will be adjusted accordingly. No spaces are to be left blank, but should be marked as follows:

N/A = Not Applicable

N/C = No Charge

N/B = No Bid

Spaces marked with a zero (0) will be considered no charge.

A. BIDDER WILL COMPLETE THE WORK FOR THE FOLLOWING PRICES:

Work Item	Unit	Quantity	Unit Cost, dollars	Cost, dollars
1. Abrasive Blasting	1	LS	N/A	\$ 75,000.00
2. Coating	1	LS	N/A	\$ 52,190.00
Total Bid Amount (Sum of all Work Items 1 – 2)		127,190.00		
Amount in Numbers	\$	127,190.00		
Amount in Words	One hundred twenty seven thousand, one hundred ninety dollars and no cents			

The undersigned has examined the locations of the proposed work and is familiar with the Plans and Specifications and the local conditions at the place where the work is to be done.

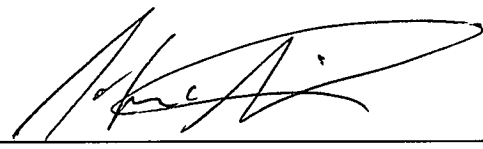
The undersigned has checked carefully all the above figures and understands that the District will not be responsible for any errors or omissions on the part of the undersigned in making up this Proposal. The undersigned understands that the District reserves the right to reject any or all bids and to waive any irregularities or informalities in bids received. Award will be made which, in the judgment of the District Board, is to the best interest of the District.

It is agreed that this proposal may not be withdrawn within a period of sixty (60) days after the date set for the opening thereof.

In accordance with the Specifications, the undersigned further agrees to so plan the work and to prosecute it with such diligence that said work shall be commenced within fifteen (15) calendar days after the issuance of a notice from the District to proceed with the work, and the entire project completed in Ninety (90) calendar days from date of Notice to Proceed.

The undersigned agrees, if awarded the Contract, that there shall be paid by the undersigned and all subcontractors under him, to all laborers, workmen and mechanics employed in the execution of such contract or any subcontract thereunder, not less than the general prevailing rate of per diem wages, and rates for overtime and legal holidays in the locality in which the work is to be performed, as established by the State Director of the Department of Industrial Relations.

Contractor's License: 724233, Expiration date: 6-30-2020
Class A + C-33

By 
Authorized Signature

Dated: 5-7-19

Name & Title Randolph W. Radonich Telephone (510) 770-0202
Secretary/Treasurer
Business Name ERS Industrial Services, Inc.

Business Mailing Address

2120 Warm Springs Ct.
Fremont, Ca. 94539

BIDDERS STATEMENT OF EXPERIENCE QUALIFICATIONS

The Bidder has been engaged in the contracting business, under the present business name for 23 years. Experience in work of similar nature to that covered in this Proposal extends over a period of 23.

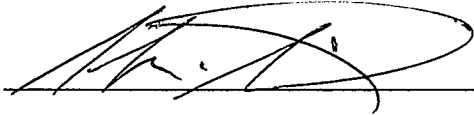
The Bidder, as a contractor, has never failed to satisfactorily complete a contract awarded to him/her, except as follows:

None

The following similar coating contracts have been satisfactorily completed in the last two years for the persons/firms/agency indicated and to whom reference is made:

<u>YEAR</u>	<u>TYPE OF WORK</u>	<u>CONTRACT AMOUNT</u>	<u>OWNER NAME/PHONE NUMBER</u>
<u>2019</u>	<u>Rehab. with coatings 3 Pressure vessels</u>	<u>244,054.58</u>	<u>Highlands Water Company Jeff Davis 707-994-2353</u>
<u>2018</u>	<u>Coatings & equipment</u>	<u>5,423,510.00</u>	<u>Silicon Valley Clean Water (SVCW) Remi Pacifuentes 562-251-7385</u>
<u>2018</u>	<u>Filter coatings</u>	<u>457,027.06</u>	<u>Desert Water Agency Ryan Molhoek 760-232-4971, Ext. 148</u>

SIGNED



DATE

5-7-19

TYPED NAME/TITLE

Randolph W. Radonich Secretary/Treasurer

(Same as signature on Proposal)

This document shall be executed and submitted with the Proposal. Failure to comply may result in the rejection of the Proposal.

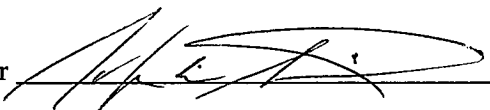
FAIR EMPLOYMENT PRACTICES CERTIFICATE

TO: Carmel Area Wastewater District

The undersigned, in submitting a bid for:

Secondary Clarifier #1 Coating Project

Hereby certifies that he/she will meet the standards of affirmative compliance with the Fair Employment Practices requirements of the Special Provisions contained herein.

Signature of Bidder  _____

Printed Name and Title of Bidder Randolph W. Radonich - Secretary/Treasurer

Business Address 2120 Warm Springs Ct.
Fremont, Ca. 94539

This certification shall be executed and submitted with the Proposal. Failure to comply may result in the rejection of the Proposal.

SECURITY FOR COMPENSATION CERTIFICATE

TO: Carmel Area Wastewater District

I am aware of the provisions of Section 3700 of the Labor Code of the State of California which require every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of the Code and I will comply with such provisions before commencing the performance of the work under this Contract.

Signature of Bidder  _____

Printed Name and Title of Bidder Randolph W. Radonich - Secretary/Treasurer

Business Address 2120 Warm Springs Ct.
Fremont, Ca. 94539

This document shall be executed and submitted with the Proposal. Failure to comply may result in the rejection of the Proposal.

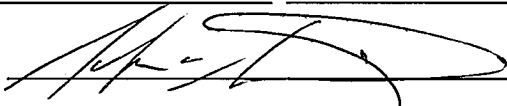
BIDDER'S DESIGNATION OF SUBCONTRACTORS

Each Bidder shall set forth below:

- A) The name and the location of the place of business of each of the subcontractors who will perform any work, supply labor, fabricate parts, or render any service to the Contractor in or about the construction of the work described in the Plans and Specifications in an amount in excess of one-half of one percent (1/2%) of the Contractor's total bid amount and;
- B) The portion of work which will be performed by each subcontractor.

If the Contractor fails to specify a subcontractor for any item of work that a subcontractor designation is required, he agrees to perform that part of the work him/herself. In accordance with Section 4101 et sequa of the Government Code of the State of California, as amended, the following is the list of subcontractors who will be performing in excess of 1/2% of the total bid amount:

<u>SUBCONTRACTOR NAME</u>	<u>SHOP, MILL OR OFFICE</u>	<u>WORK CLASS</u>	<u>\$ VALUE & % OF WORK</u>
None			

SIGNED  DATE 5-7-19
PRINTED NAME/TITLE Randolph W. Radonich - Secretary/Treasurer

Make copies and use if more space is needed.

This document shall be executed and submitted with the Proposal. Failure to comply may result in the rejection of the Proposal.

BIDDER'S DESIGNATION OF EQUIPMENT, MATERIAL MANUFACTURERS AND PROPOSED SUBSTITUTIONS

Unless a substitution is approved by the District, the Contractor proposes to supply the equipment as supplied by the following designated supplier(s) for major pieces of equipment.

SPECIFICATION SECTION	EQUIPMENT DESCRIPTION	MANUFACTURER
99100	Coating material	Sauereisen, Inc.

This document shall be executed and submitted with the Proposal. Failure to comply may result in the rejection of the Proposal.

NON-COLLUSION AFFIDAVIT

The undersigned representative of the bidder submitting the proposal attached herewith hereby declares that said Proposal is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that any one shall refrain from communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

SIGNED  DATE 5-7-19

PRINTED NAME/TITLE Randolph W. Radcuich - Secretary/Treasurer

This document shall be executed and submitted with the Proposal. Failure to comply may result in the rejection of the Proposal.

RESOLUTION NO. 2019-20

A RESOLUTION AWARDDING A CONTRACT TO ERS INDUSTRIAL SERVICES, INC FOR COATINGS FOR THE 2018-19 SECONDARY CLARIFIER #1 REHABILITATION PROJECT IN AN AMOUNT NOT TO EXCEED \$127,190, AUTHORIZE THE GENERAL MANAGER TO ENTER INTO SAID CONTRACT, AUTHORIZE A BUDGET AMENDMENT FOR AN ADDITIONAL \$18,948 FROM CAPITAL RESERVES TO COMPLETE SAID PROJECT, AND AUTHORIZE A REVISION TO RESOLUTION 2018-28 TO REFLECT CHANGED CONDITIONS

-oOo-

WHEREAS, the 2018-19 Budget allocated \$250,000 for the Secondary Clarifier #1 rehabilitation project to include replacement of center drive mechanism and bridge, coating work, and electrical work; and

WHEREAS, the coatings bid was publicly advertised and sent to multiple vendors but only one bid was received. Staff has reviewed and is confident the bid is reasonable for the specified work and requests that the Board award the contract to the sole bidder, ERS Industrial Services, Inc. in an amount not to exceed \$127,190; and

WHEREAS, the Board of Directors authorizes the General Manager to enter into said contract on their behalf; and

WHEREAS, staff is requesting the allocation of an additional \$18,948 from Capital Reserves to complete said project because it has exceeded the original budget amount of \$250,000; and

WHEREAS, the Board is authorizing these changes to Resolution #2018-28 approved July 26, 2018 to reflect the change in conditions.

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Carmel Area Wastewater District, that

- The Board accepts and awards the bid to ERS Industrial Services Inc. in the amount of

\$127,190 for blasting and coating services at Secondary Clarifier #1.

- The Board authorizes the General Manager to enter into a contract with ERS Industrial Services, Inc. for said services.
- The Board authorizes a Budget Amendment in the amount of \$18,948 from Capital Reserves to complete the Secondary Clarifier #1 Rehabilitation Project.
- The Board authorizes a revision to Resolution #2018-28 approved July 26, 2018 to reflect the changed conditions as discussed here.

PASSED AND ADOPTED at a regular meeting of the Board of Directors of the Carmel Area Wastewater District duly held on May 30, 2019 by the following vote:

AYES: BOARD MEMBERS:

NOES: BOARD MEMBERS

ABSENT: BOARD MEMBERS:

President of the Board

ATTEST:

Secretary to the Board

STAFF REPORT



To: Board of Directors

From: Barbara Buikema, General Manager

Date: May 30, 2019

Subject: Pebble Beach Community Services District – Regular Board Meeting April 26, 2019

DISCUSSION

Agenda items from the April 26, 2019 meeting that are of specific interest to this District:

- Total cash balance at the end of March 2019 was \$18.5M; of that amount, \$13.1M was designated for Capital Acquisition and Outlay Reserves. Property taxes comprise roughly 85% of District revenues with user fees making up 12%.
- The Board approved the 2019-20 Preliminary Budget and set the final budget hearing, including user fees for June 28, 2019. Sewer user fees are proposed to be increased by 9.0%. The increase amounts to \$1.86/mo., from \$20.62 to \$22.48 for residential units. The budget includes \$6.1M for wastewater expenditures, excluding the carry-over from the prior year. The \$5.0M difference between the budgeted expenditures and user fee revenue is proposed to be financed from property tax (\$4.0M), capital outlay reserve (\$750K), and investment and other revenue (\$235K).
- Forest Lake Reservoir held 112 MG (million gallons) of recycled water or 97% of permitted capacity. Current storage volume is 3% above the historic average of 109 MG.
- Total irrigation water demand for the 2019 calendar year through March was 12 AF (acre feet). Total demand for the calendar year is 85% below the 5-year average of 80 AF and 79% below the 24-year average annual usage of 58 AF. The month of March reflected a net storage decrease of approximately 2 MG at Forest

Lake Reservoir.

- Average daily wastewater flow of 763,000 GPD was measured in March at the PBCSD-Carmel gate. This represents 41% of the total flow at the CAWD treatment facility. The measured PBCSD flow was 47% below the five-year average of 518,000 GPD for the month of March; the CAWD total flow was 23% above the five-year average of 1,515,000 GPD for March.
- The three alternative source water projects were out-of-service from January 2019 to mid-April 2019 due to ongoing storm events as well as the filling of Forest Lake Reservoir. Startup of the 4th Fairway Diversion Facility was initiated on April 15th.
- Status of Reclamation Storage Facilities Improvement Project: Monterey Peninsula Engineering is nearing completion of all mechanical work within the pump pit area, including the installation of the three new/rebuilt pumps. Testing of the newly installed pumps, piping and appurtenances is anticipated to be completed before the end of April; allowing maintenance staff to restore normal operations.
- Average daily wastewater flows measured in million gallons per day (MG) show:

MONTH	TOTAL	CAWD FLOW	PBCSD FLOW	PBCSD
July - 18	36.645	25.589	11.056	30.171%
Aug - 18	36.346	25.482	10.864	29.890%
Sept - 18	33.219	23.073	10.146	30.543%
Oct - 18	32.829	22.915	9.914	30.199%
Nov-18	33.762	23.837	9.925	29.397%
Dec-18	35.452	24.846	10.606	29.917%
Jan - 19	39.778	27.204	12.574	31.610%
Feb - 19	65.276	40.133	25.143	38.518%
Mar - 19	57.969	34.308	23.661	40.817%
Total	371.276	247.387	123.889	33.368%

STAFF REPORT



To: Board of Directors

From: B. Buikema, General Manager

Date: May 30, 2019

Subject: Summary of Monterey County Treasurer Report dated 03-31-19

RECOMMENDATION

No action required – this is informational only

DISCUSSION

During the January – March quarter, interest rates fluctuated between small gains and small declines throughout most of the period, ultimately ending the quarter with yields down across the curve following a steady decline after the Federal Reserve’s March meeting. Yields fell despite a recovery in the equity markets. Longer maturity yields fell more than shorter maturities and in mid-March, the 3-month to 10-year part of the yield curve inverted for a brief period, renewing concerns about a possible recession in the near future. The Federal Reserve held short-term rates unchanged at the current target range of 2.25% to 2.50% at their January and March meetings. They also shifted to a “patient” stance on future rate actions and have implied there will be no additional Federal Reserve rate hikes in 2019. U.S. equities recovered from the sell-off last quarter and had their best quarter in at least a decade during the third quarter.

PORTFOLIO CHARACTERISTICS			
	09-30-18	12-31-18	03-31-19
Total Assets	\$1,331,217,570.21	\$1,528,686,820.37	\$1,683,748,933.92
Market Value	\$1,323,210,566.84	\$1,518,307,204.45	\$1,672,221,350.10
Days to Maturity	222	272	335
Yield	1.84%	2.08%	2.32%
Estimated Earnings	\$6,517,874.72	\$7,409,471.25	\$9,095,864.80

The Monterey County Treasurer’s portfolio consists of fixed income investments, all of

which are authorized by the State of California Government Code 53601.

PORTFOLIO ASSET COMPOSITION 03-31-19	
Corporate Notes	14.5%
Overnight Liquid Assets	23.3%
US Treasuries	41.0%
Federal Agencies	9.3%
Commercial Paper	3.8%
Negotiable CDs	4.6%
Supranationals	2.8%
Municipal Bonds	0.1%
Asset Backed Securities	0.6%

The County Treasury continues to perform comparatively to portfolio benchmarks this quarter. The County investment strategy continues to focus on capturing relative value while remaining cautious.

Future Strategy: The Treasurer has 58% of the portfolio invested in maturities under one year and 42% invested in the 1-3 year maturity range. In the current interest rate environment characterized by a flat yield curve and stable rates, portfolio purchase will be laddered across maturities and sectors chosen based on relative value. This strategy will lock in longer-term yields while also ensuring liquidity needs are met. We will continue to manage the portfolio under the established tenets of safety and liquidity while seeking to maximize the rate of return.

The investment portfolio was in compliance with all applicable provisions of state law and the adopted Investment Policy and contained sufficient liquidity to meet all projected outflows over the next six months.

Note: The full Monterey County Treasurer Report is available at:
www.co.monterey.ca.us/taxcollector/Treasury_Main.html



Carmel Area Wastewater District

P.O. Box 221428 Carmel California 93922 ❖ (831) 624-1248 ❖ FAX (831) 624-0811

Barbara Buikema
General Manager
Ed Waggoner
Operations Superintendent
Robert R. Wellington
Legal Counsel

Board of Directors
Gregory D'Ambrosio
Michael K. Rachel
Robert Siegfried
Charlotte F. Townsend
Ken White

April 29, 2019

The Honorable Dr. Richard Pan
Chair, Senate Health Committee
State Capitol, Room 4070
Sacramento, CA 95814

RE: SB 438 (Hertzberg) – SUPPORT

Dear Senator Pan:

As president of the board of Carmel Area Wastewater District I am writing to express the unanimous support of our board of directors for Senator Herzberg's SB 438.

Since 1973, every local public agency has been required by the Warren-911-Emergency Assistance Act to establish and operate an emergency telephone system using the digits 9-1-1 for emergency medical services (EMS), police and firefighting. Moreover, counties have a duty under state laws to establish "medical control" policies related to the quality of pre-hospital medical care provided by both local fire agencies and private ambulance companies.

By giving an expansive interpretation of their powers, some county EMS directors believe they can override a city or fire district's right to respond to medical emergencies within its own borders or allow a private ambulance company to control the EMS dispatch center and refuse to dispatch fire-based units in favor of their own private ambulances.

SB 438 would make it clear that county EMS administrators *do not* have the power to dictate when fire agency units can be dispatched to respond to a 9-1-1 call in their own jurisdictions or empower a private ambulance company to bypass potentially closer fire-based units or downgrade the severity of medical emergencies so that it can dispatch its own ambulances.

The County of Monterey is currently attempting to do exactly what SB 438 seeks to prevent. The county's EMS Director is leading an effort to drastically alter the manner in which emergency medical dispatching takes place. A new Request for Proposal (RFP) seeks to turn EMS dispatching over to the private ambulance company awarded the new ten year contract. This would lead to dispatching decisions affected by profit-and-loss considerations rather than the *safety needs* of the public. This drastic alteration to the provision of emergency service would open the door to dangerous inefficiencies in resource allocation and coordination during acute emergency situations, endangering lives and diminishing our first responders' effectiveness in the field. In addition, the County EMS Director is attempting to substantially increase allowable response times and lower the quality of care rendered at the scene by reducing first responders' level of expertise from the current Advanced Life Support (ALS) paramedics used in some areas of the county to those trained to the much less effective standard of Basic Life Support (BLS).

It is indeed harmful public policy to condone delayed responses to 9-1-1 calls, and a decreased level of training of those who can make a positive difference in the outcome of an emergency. The delays that would be caused by our county EMS director's overly broad interpretation of the scope of "medical control" constitute a danger to a patient's health and safety. The people of Monterey County and the State of California as a whole deserve better.

For these reasons, we respectfully request you to vote "aye" on SB 438.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Ken White".

Ken White
Board President



Carmel Area Wastewater District

P.O. Box 221428 Carmel California 93922 ❖ (831) 624-1248 ❖ FAX (831) 624-0811

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Ken White

April 29, 2019

The Honorable Supervisor John Phillips, Chair of the Board
Members of the Board of Supervisors of Monterey County
P.O. Box 1728
Salinas, CA 93902

RE: Monterey County Emergency Medical Services Ambulance Request for Proposal (RFP) Currently Out for Solicitation and the Negative Impacts Its Provisions Would Have on Existing Service Levels Provided to the Residents of Monterey County.

Dear Chair Phillips and Members of the Board of Supervisors:

As President of the Board of Directors of the Carmel Area Wastewater District (CAWD) representing more than 10,000 residents and businesses in Carmel and the surrounding area, I am extremely concerned that the pending Request For Proposal (RFP) for Monterey County's Exclusive Operating Contract for Ambulance Service would not provide the fastest and best possible care for residents of the county, all of whom will be forced to rely on these Emergency Medical Services (EMS) over the next decade.

Although the county's EMS Director has consistently maintained otherwise, the RFP process failed to solicit sufficient stakeholder input or take into account our concerns. While it is true several community meetings were held, the meeting announcements, incredibly, failed to even mention the word "ambulance". This left the public entirely unaware of the vitally important nature of these meetings and the "real-world" negative impact it could have on their daily lives.

Assuming the proposed ambulance contract is approved and implemented in February 2020, numerous areas within the county will face drastically-increased response times. In some areas the proposed contract calls for an ambulance to arrive "as soon as possible," small comfort to someone suffering a stroke, heart attack or serious trauma. If this were not enough, county residents also face a degraded level of medical expertise

“on-scene,” as the proposed contract calls for responses by Emergency Medical Technicians (EMTs) rather than highly-trained paramedics which currently serve many areas of the county.

The proposed contract contains language which strictly limits or even prevents our *tax-funded* firefighter/paramedics from responding to medical emergencies in cases where personnel and equipment are able bring lifesaving aid to a stricken citizen long before the contract provider can reach the scene. Under the existing contract, the contract provider is free to request assistance from our local ambulances during times of peak demand to respond into adjacent communities and transport seriously injured or ill patients to the hospital. The proposed contract, if implemented as written, will *no longer be allowed* as the long-standing practice of “sharing resources” will be *prohibited*.

In fact, based on the emergency communications and dispatch information presented in the RFP, there may be instances where paramedic engines may not even receive notification of a medical or life-threatening emergency, leaving only the contract ambulance, staffed with EMTs, to respond *whenever it can get there*.

The process on the proposed RFP should have offered multiple opportunities from all parties in the County to offer comments and guidance on such a vitally important plan.

The proposed RFP also seeks to turn EMS dispatching over to the private ambulance company awarded the new contract. This could well lead to dispatching decisions affected by profit-and-loss considerations rather than the *safety needs* of the public. This drastic alteration to the provision of emergency service could well open the door to dangerous inefficiencies in resource allocation and coordination during acute emergency situations, endangering lives and diminishing our first responders’ effectiveness in the field.

I recognize the effort expended to alter, and hopefully optimize, the operational effectiveness of Monterey County EMS. However, in exploring cost-effective measures, I encourage you to keep the safety of Monterey County’s residents and visitors as the highest priority and to ensure the best possible standard of emergency care for each citizen.

This is why during the Special Meeting of the Emergency Medical Care Committee on March 27, 2019, a motion was *unanimously* approved to implore the Board of Supervisors to stop the County Ambulance RFP process and allow input from all stakeholders before moving forward. And if necessary, extend the existing contract until the most rapid response and very best emergency medical service can be provided to every citizen in Monterey County. The proposed RFP does not begin to reach this goal.

The fact that this process was conducted without any meaningful public input and yet presents such serious and far-reaching consequences for thousands of seriously ill or injured patients, public safety agencies and hospitals is extremely disconcerting. The citizens of Monterey County deserve better.

Sincerely,



Ken White
Board President

cc: Mayor & Council, City of Carmel-by-the-Sea
City Administrator, City of Carmel-by-the-Sea