



CARMEL AREA WASTEWATER DISTRICT

Regular Board Meeting

3945 Rio Road, Carmel, CA 93923

September 30,
2021 Thursday
9:00AM



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

COVID-19 Public Meeting Procedures

As per the Governor's Executive Order #N-08-21 (June 11, 2021) the following will be in effect until September 30, 2021.

- CAWD will not make a physical location available from which members of the public may observe and offer public comment.
- All CAWD public meetings shall take place via teleconferencing and shall be posted on the District website (www.cawd.org) and allow members of the public to attend and address the meeting electronically.
- The District will give advance notice of all teleconference meeting as prescribed by the Brown Act
- The public may listen to the meeting by logging on to the District website and clicking on the Virtual Webinar.
- Public comment may be submitted 24 hours prior to the meeting by clicking on the "Public Comment Form" listed directly beneath the Virtual Webinar on our website. If received within 24 hours of the meeting we will ensure that a response is given at the meeting. All participants have access during the meeting to be recognized and utilize the platform to speak. Please use the virtual "raised hand" to be acknowledged.
- The District is requesting that the public submit comments at least 24 hours in advance of the scheduled meeting to enable staff to post all comment on the District web site. Any comment received after this time will be posted after the Board meeting.
- The teleconference Board meeting will require that all voting is done by roll call
- The teleconference Board meeting will require that speakers identify themselves prior to addressing other attendees in order to facilitate the flow of the meeting and minimize confusion.
- The District advises that the public refer to our website periodically for updates regarding the District and Board activity.

STAFF REPORT



To: Board of Directors
From: Rachél Lather, Principal Engineer
Subject: Pretreatment Ordinance 2021-03
Date: September 30, 2021

RECOMMENDATION

It is recommended that the Board of Directors approve Ordinance No. 2021-03, adopting a new Pretreatment Ordinance and repeal Ordinances No. 91-03 and 2005-01 in their entirety.

DISCUSSION

District staff, the Pretreatment Ordinance Committee, and attorneys have been working to develop a new pretreatment ordinance for the collections system and treatment facility to be in compliance with state and federal regulations. The pretreatment requirements are needed to provide standards for residential and commercial customers and for Carmel Area Wastewater District to have the authority to enforce them. The 2007 Environmental Protection Agency Model Pretreatment Ordinance was used as the framework for this ordinance. This ordinance will replace Ordinances No. 91-03 and No. 2005-01 in their entirety.

Once the new Pretreatment Ordinance is adopted, staff will implement outreach communication to the commercial establishments that are most impacted: Food Service, Dental, Medical, Veterinarian, Laundry/Cleaners, and Beauty Salons. We will focus on educating the businesses that have the potential to discharge chemicals, oil, fats, and other prohibited items into our sewer system. This includes sending flyers to the commercial customers, posting information on our website, and hosting outreach meetings.

FUNDING

Funding is available in the 2021-2022 O&M Treatment Plant budget for printing, advertising, copying, and mailing notices.

ATTACHMENTS:

Ordinance 2021-03

ORDINANCE NO. 2021-03

AN ORDINANCE (1) REPEALING ORDINANCE NO. 91-03 AND NO. 2005-01
CONCERNING
PRETREATMENT OF WASTEWATER, AND (2) ADOPTING A NEW AND REVISED
PRETREATMENT ORDINANCE OF THE CARMEL AREA WASTEWATER DISTRICT

-o0o-

THE BOARD OF DIRECTORS OF THE CARMEL AREA WASTEWATER DISTRICT
DOES ORDAIN AS FOLLOWS:

1. Ordinance No. 91-03 and 2005-01 Repealed. Ordinance No. 91-03, "Establishing Procedures and Controls for Pretreatment of Wastewater Prior to its Entry into the District Sewer System," passed and adopted on April 18, 1991, and Ordinance No. 2005-01 amending Ordinance No. 91-03, passed and adopted on January 27, 2005, are hereby repealed in their entirety.

2. Adopted. The attached "Pretreatment Ordinance of the Carmel Area Wastewater District" (Exhibit A) consisting of 84 pages establishing new and revised standards governing pretreatment of sewage, and various other related matters, is hereby adopted by the District, to read in its entirety as set forth in Exhibit A, incorporated herein by this reference.

3. Summary of Ordinance. An ordinance regulating direct and indirect discharges to the wastewater system through the issuance of permits to certain non-domestic users and through enforcement of general requirements for the other users, authorizes monitoring and enforcement activities, requires user reporting, assures that existing customer's capacity will not be preempted and provides for the setting of fees for the equitable distribution of costs resulting from the program established herein. A true and certified copy of the full text of this Ordinance and the incorporated Exhibit A are on file and available for inspection at the District offices.

4. Severability. The Board declares that each section, subsection, paragraph, subparagraph, sentence, clause, phrase, and graphic of this Ordinance, including incorporated Exhibit A, is severable and independent of every other section, subsection, paragraph, subparagraph, sentence, clause, phrase and graphic of this Ordinance. If any section, subsection, paragraph, subparagraph, sentence, clause, phrase, or graphic of this Ordinance is held invalid, the Board declares that it would have adopted the remaining provisions of this Ordinance irrespective of the portion held invalid, and further declares its express intent that the remaining portions of this Ordinance should remain in effect after the invalid portion has been eliminated.

5. California Environmental Quality Act (CEQA) Exempt. This approval is covered by the general rule that CEQA applies only to projects which have the potential for causing a significant effect on the environment. It can be stated with certainty that adoption of the standards set out in Exhibit A is not an activity that may have a significant effect on the environment, and therefore is not subject to CEQA. (CEQA Guidelines, Section 15601(b)(3))

6. Publication. No later than 15 days following the adoption hereof, this Ordinance shall be published once in a newspaper published in the District.

7. Effective Date. This Ordinance shall take effect and be in force 14 days after publication per Section 6 of this ordinance.

PASSED AND ADOPTED at a regular meeting of the Board of Directors of the Carmel Area Wastewater District duly held on September 30, 2021, by the following vote:

AYES: BOARD MEMBERS:
NOES: BOARD MEMBERS:
ABSENT: BOARD MEMBERS:
ABSTAIN: BOARD MEMBERS:

President of the Board

ATTEST:

Secretary of the Board

STAFF REPORT



To: Board of Directors

From: Patrick Treanor, Plant Engineer

Date: September 30, 2021

Subject: 2019 Iorex Pilot

RECOMMENDATION

No action is required. The General Manager has reviewed the Iorex claims and pilot data and ordered all work related to Iorex to cease immediately and for Staff to focus on other solutions for corrosion control in the #1 Water (potable water) system at the Wastewater Treatment Plant (WWTP).

DISCUSSION

The Iorex corrosion control pilot test was initiated in September 2019. This product was brought forth as a potential alternative to the then planned zinc orthophosphate corrosion inhibitor system that was originally budgeted for the #1 Water System in FY19-20. The Iorex is claimed to convert rust on the inside of pipes to magnetite (a stable crystalline form of iron oxide) by way of ionizing water molecules into component hydrogen (H^+) and hydroxide (OH^-) ions.

Several fundamental issues exist with the claims, that were difficult to justify originally and have still not been resolved through pilot testing. First, water molecules shouldn't remain in an ionized state for a sufficient duration to react with rust as the ions will want to quickly return to their most stable state (i.e. H_2O). Second, there is no evidence that even if hydrogen and hydroxide ions remained in an ionic state that either would be effective at converting rust into magnetite in the ambient water conditions.

Third, it is questionable whether the Iorex is even splitting water molecules into ions by electrolysis in the first place.

At the time the Iorex was proposed it was planned to be pilot tested for one year. It has been almost two years since the Iorex was installed, and the test data gathered thus far to prove the manufacturer's claims is inconclusive at best. The Operation & Maintenance (O&M) cost incurred in 2019 was \$4,701.69 (for the Iorex unit, including tax). In addition, an estimated 20 hours of total staff time was expended on introductory meetings with Iorex, purchasing the unit, installing the Iorex on an existing 1" pipe entering the Chlorination Building, and conducting limited water quality testing. For information, attached is the original proposal for the Iorex unit that was installed.

Given the questionable claims by Iorex that have not been proven after 2 years, it seems sensible to redirect further efforts to the industry standard approaches that exist.

There is a case to be made that out-of-the-box thinking should be encouraged at Carmel Area Wastewater District (CAWD), and that occasionally trying new things (even if they fail) can be beneficial in terms of learning about new technology and going through the research and pilot testing process. But clearly in this example there is not enough evidence to support a decision to continue any further efforts towards Iorex. Therefore, the General Manager chose to stop all further work.

BACKGROUND

The issue with #1 Water internal corrosion was first identified prior to 2012 as many safety eyewash stations around the WWTP had "red water" issues which led operators to lose faith in the safe use of the eyewash stations and led to installation of many portable self-contained eyewash units around the WWTP. Internal inspection of galvanized #1 Water piping in 2018 showed tuberculation was occurring inside galvanized pipes near the main pumping station and this further evidenced the cause of the red water issue. In FY19-20 a budget item was added to the Capital Budget to install a centralized zinc orthophosphate corrosion inhibitor chemical metering system to address the internal pipe corrosion that was occurring throughout the entire system. Staff currently relies on flushing of eyewash stations as an interim measure to manage the occurrence of red water at eyewash stations. The flushing removes build-up of iron oxide out of dead-end pipes. This alleviates any immediate concerns with the red water issue in terms of safety and operator use of eyewash stations.

Staff would still like to implement long term corrosion inhibition on the internal #1 Water system to reduce the need to rely on flushing and extend the life of the #1 Water piping for decades into the future. To protect the entire water system from internal corrosion a zinc orthophosphate metering system at the #1 Water booster pumps could be constructed at a relatively low cost (less than \$10,000). Zinc orthophosphate chemical

addition is a widely used and proven methodology for inhibition of internal corrosion on metal pipes in potable water systems. For individual buildings at dead ends in the system (which are the locations where red water has been most pronounced) sacrificial anodes could be added inside the above ground building piping to provide cathodic protection.

FUNDING

There is currently no budget in FY21-22 for capital improvements associated with implementing a zinc orthophosphate dosing system or sacrificial anode installation. However, the cost of such systems may be less than \$10,000 and could potentially be completed as an O&M expenditure.

Attachment:

- 2019 Iorex Proposal



Price Quote

EST-020030

IOREX

1440 G St. NW
Suite 9116
Washington, District of Columbia 20005

Customer

Carmel Area Wastewater District
26900 State Route 1
Carmel CA 93922

Price Quote Date : September 26, 2019

#	Item & Description	Qty	Unit Price	Amount
1	IOR-25 IOREX 1" Device	1.00 Unit	4,284.00	4,284.00
Sub Total				4,284.00
Shipping charge				85.68
Total				\$4,369.68

Notes

Looking forward for your business.

Terms & Conditions

Once the price quote is approved, an invoice will be sent. The device will be shipped once payment has been received.

SEPTEMBER 2019

IOREX PROPOSAL

PROPOSED TO

Carmel Area Wastewater District

PREPARED BY

IOREX Global Company

PRIMARY GOAL

Provide an ALL- IN-ONE Solution



IOREX

IOREX is the only ALL-IN-ONE pipe solution that is 100% natural, sustainable, and energy-neutral. It is proven effective and has been successfully used for over 25 years without maintenance or replacement.

Benefits

ANTI-CORROSION

Protects pipes from corrosion

ANTI-SCALE & RUST

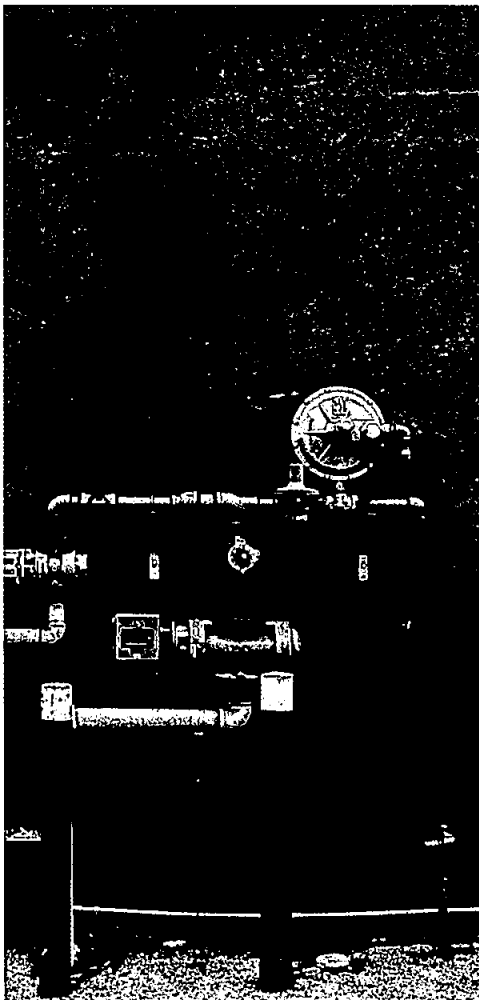
Prevents & Removes Scale + Rust

STERILIZATION

Eliminates microbial contaminants in water and pipes; prevents formation of biofilm and removes any existing biofilm

WATER QUALITY IMPROVER

Enhances taste and feel of water; has a softening effect on water; improves hydration



IOREX HISTORY & EFFECTIVENESS

IOREX HISTORY

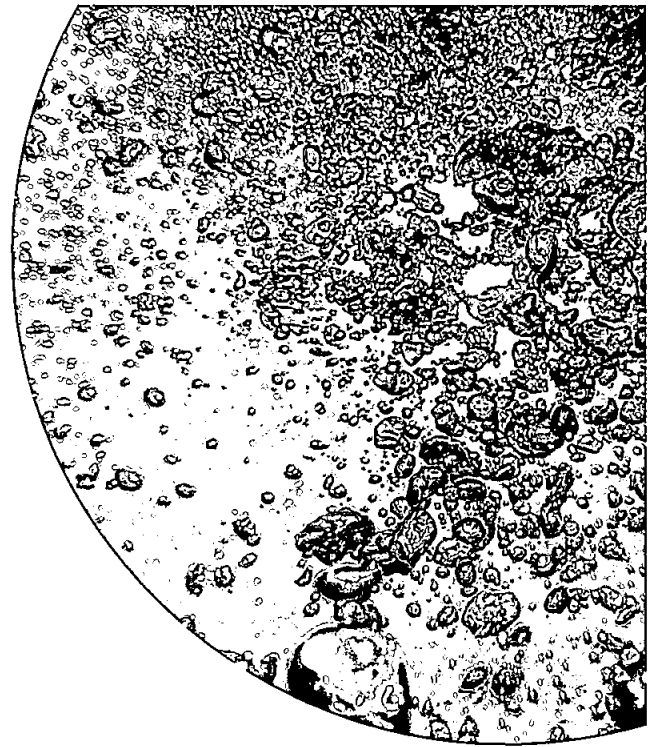
While IOREX is new to the United States, the device has been manufactured and sold in South Korea for the past 23 years.

There are over 100,000 installations, mainly in South Korea. In the 23 years that the device has been sold, no device has been returned.

In just over a year, there have been over 50 installations in the United States and Canada. These installations can be found in: boilers; breweries; commercial buildings; cooling towers; hotels; private homes; public water distribution systems; residential buildings; and restaurants.

EFFECTIVENESS

According to a result test conducted by the Korea Testing and Research (KTR) Institute, IOREX was found to have a rust inhibition rate of 75.7%, exceeding KTR's threshold of 30% required for effectiveness. In a study from FPIInnovations, a prominent testing lab in Canada, IOREX had a 21.8% lower corrosion rate than the control group. Moreover, the year-long study showed that IOREX-treated water was capable of converting existing rust in a pipe into magnetite. This is significant because magnetite is a hard compound that can coat the inner surface of iron and steel pipes, preventing leaks and even sealing existing ones. Magnetite increases the integrity of existing pipes.



RESULTS

Bacteria

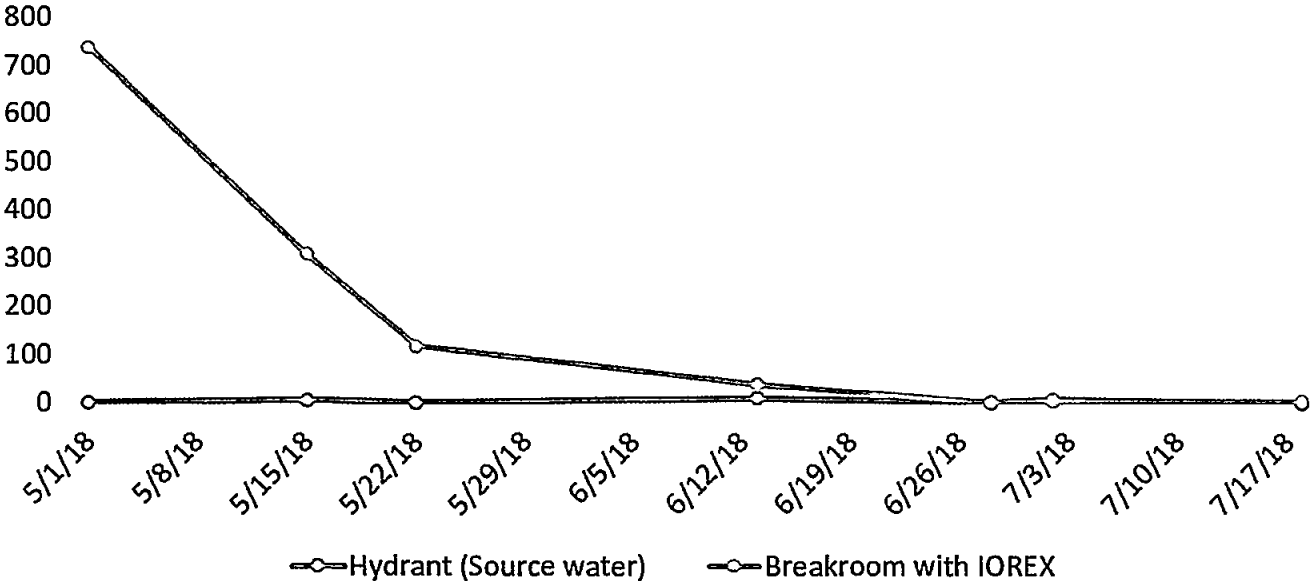
PROBLEM

A building within a U.S. military compound was found to have brown water and high Heterotrophic Plate Count (HPC*)

OUTCOMES

- HPC levels showed a tremendous decline - from 738 MPN/mL to 4 MPN/mL - only two months after installation
- Flushing has been reduced to once a month for about 30 minutes, compared with once a month for 3-4 hours prior to installation

Heterotrophic Plate Count at a Military Base (MPN/mL)



This graph shows the heterotrophic plate count* (HPC) of both the Breakroom (gray line) in a building where the IOREX was installed and the nearest source water (blue), which was not treated by IOREX. The HPC in the Breakroom on 5/1/18 was 738 MPN/mL compared with 0 MPN/mL in the nearby source water. By 7/18/18, the HPC in the Breakroom water decreased to 4 MPN/mL, comparable with the source water level of 0 MPN/mL. This is a reduction of 99.46% in HPC in the Breakroom over the course of the pilot.

* Heterotrophic plate count is a method that measures colony formation on culture media of heterotrophic bacteria in drinking water. It measures the overall bacteriological quality of water.

RESULTS

Corrosion

PROBLEM

The "Heights" neighborhood of Pocomoke City, MD, has been experiencing brown water for four decades.

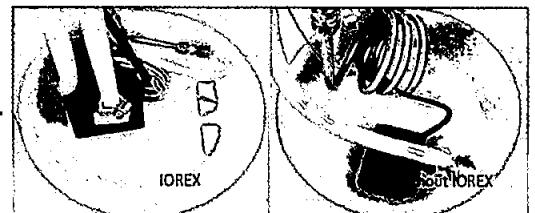


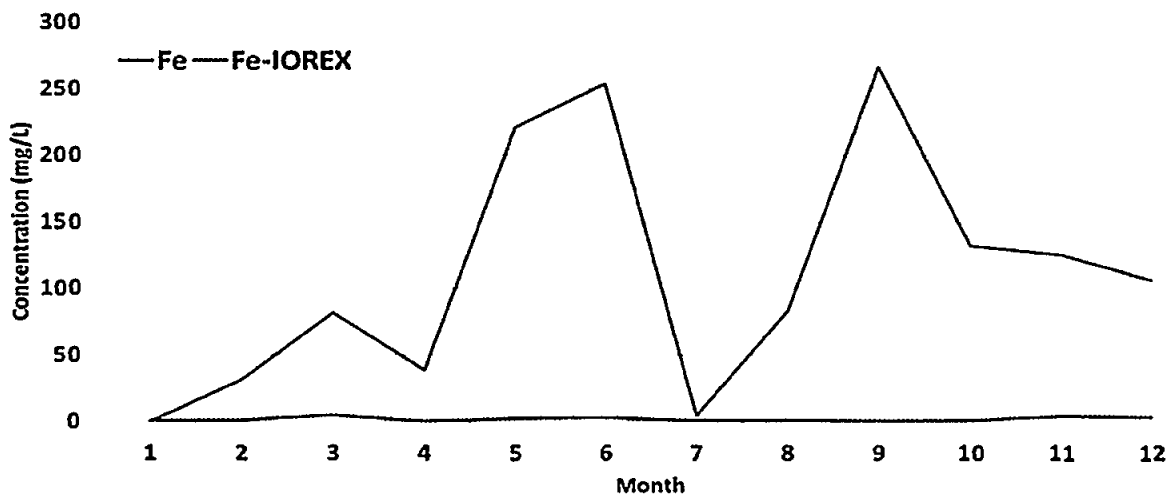
OUTCOMES

- Saved thousands of dollars by not having to replace all aging water pipes
- Iron content dropped by 76.89% less than 30 days after installation
- Level of Turbidity reduced by 56.95%
- Heterotrophic Plate Count decreased by 84.56% compared to pre-installation levels

72-hour test with the addition of 400 ppm Ca^+ as CaCl_2

"Dissolved iron in the water without the IOREX was 22 times greater by the end of the 72-hour test. In fact, there was a slight decrease in iron content in the water loop with the IOREX by the end of the test."



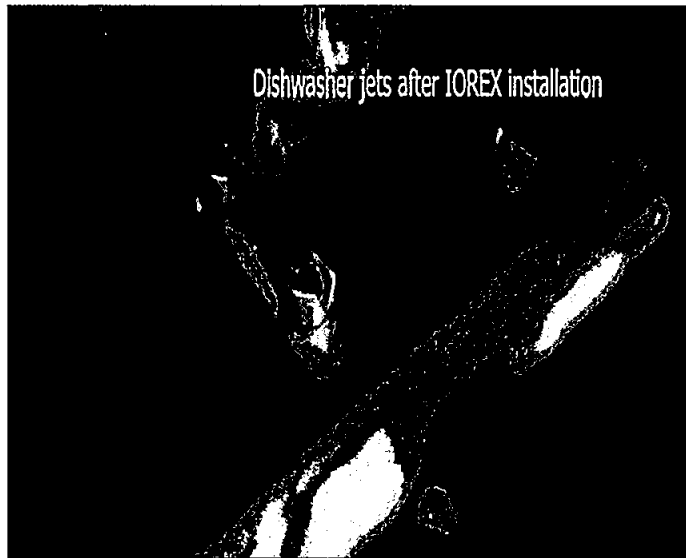
RESULTS**OUTCOMES -
FPINNOVATIONS LAB TESTING****12-month test in a lab loop system**

At the conclusion of the year-long testing, the water samples obtained from the loop with IOREX had 55 times less corrosion potential than the samples from the loop without IOREX.

RESULTS Scale

PROBLEM

An establishment has been conducting regular maintenance because of constant calcium and scale buildup in their water fixtures.



OUTCOMES

- Saved thousands of dollars by doing away with regular maintenance and elimination of chemical use
- Improved quality of food
- Decreased bottled water consumption
- Showerheads are spraying better
- Dishwasher jets remain clean and no longer leave residue on dishes
- Washing machines are working more efficiently and effectively.

RESULTS

Hotel with Full Kitchen Suites

Item	12/23/2017 (8 days after installation)	2/12/2018 (45 days after installation)	10/31/2018 (306 days after installation)	2/26/2019 (424 days after installation)	Percentage Change from 12/23/2017 test date to the 2/26/2019 test date
Turbidity (NTU)	0.9	Non-Detected	Non-Detected	Non-Detected	water is totally cleared
Total Dissolved Solids (mg/L)	510	362	not tested	380	reduction of 25.49%
Bicarbonate (mg/L)	67.9	47.8	64.9	53.5	reduction of 21.21%
Calcium (mg/L)	105.74	41.4	38.8	36.5	reduction of 65.48%
Copper (mg/L)	0.1	0.0092	0.012	0.011	reduction of 89%
Sulfate (mg/L)	29.9	not tested	23.6	20.5	reduction of 31.44%
pH	7.2	7.2	7.2	7.1	consistent
Magnesium (mg/L)	42.8	9	9.4	9.3	reduction of 78.27%
Total Hardness (mg/L as CaCO ₃)	148.2	140	135	130	reduction of 12.28%

The figures in this comparison are averages of the samples collected from the hotel. The samples collected were analyzed by Pace Analytical Services, LLC (9800 Kinsey Ave., Suite 100, Huntersville, NC 28078), except for the 12/28/2017, which was analyzed by WST (1701 Vanderbilt Rd., Birmingham, AL 35234)

Testimonial from an IOREX Client

We have noticed a change in the scaling of the dish machines. We de-lime our machines once a week, and lately we have noticed that when it's time to de-lime them, they don't really need to be done. Overall the result is probably going to cut the de-liming procedure from once a week to probably every third week. Maybe even less frequently, which is great because you figure every week we were using \$45 in de-liming chemical. Now, (de-liming) every third week will save approx. \$1,600 annually. And that's just ONE of our 3 Dish machines!"

- Dining Services Director at a High-Rise Residential Building

Eco-Friendly & Certified



IOREX supports LEED credits in the following four categories:

- Water Efficiency
- Energy & Atmosphere
- Innovation
- Integrated Design Process

Certified

- NSF
- ISO 9001
- ISO 14001
- LEED

SEPTEMBER 2019

IOREX

PROPOSAL

WE LOOK FORWARD TO BEING YOUR
WATER SOLUTION

BENEFITS

Prevention

- Reduces the need for expensive chemical treatments to remove buildup from cooling tower loop
- Significantly reduces future maintenance expenses and problems by preventing pipe corrosion and scale buildup and biofilm formation
- Prevents premature equipment and fixture failure by keeping pipes and heat exchanger panels clean

Protection

- Protects the investment by prolonging the lifespan of the cooling tower
- Minimizes the risk of Legionella outbreaks by removing existing biofilm, which is where Legionella bacteria thrives
- Avoids issues stemming from lapses in maintenance

Environmental Stewardship

- Conserves energy by ensuring cooling tower works more efficiently
- Increases the thermal efficiency of pipes, saving energy
- Reduces the frequency of heat exchanger panel cleaning; therefore, corrosion inhibitor chemicals are introduced into the environment
- Allows the reduction of chemical treatments by 50 - 75%
- Eliminates the need for salt-based water softeners that waste a lot of water

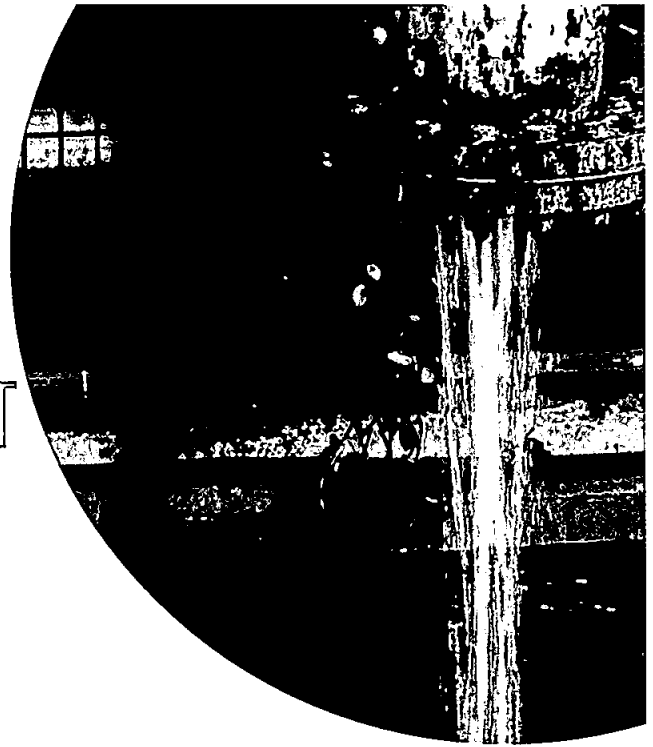
Reduce Maintenance Costs by 50-75%

Double the lifespan of your equipment

WATER SYSTEM

CARMEL AREA WASTEWATER DISTRICT

**Pipe material: Galvanized steel, some cast iron,
PVC, and copper**
Recommended IOREX Size: 1"



EASY TO INSTALL

Installation takes 2-4 hours.

Once installed, the water supply can return to normal and the IOREX device will be activated immediately.



IOREX INVESTMENT

IOR-25 - 1" DEVICE

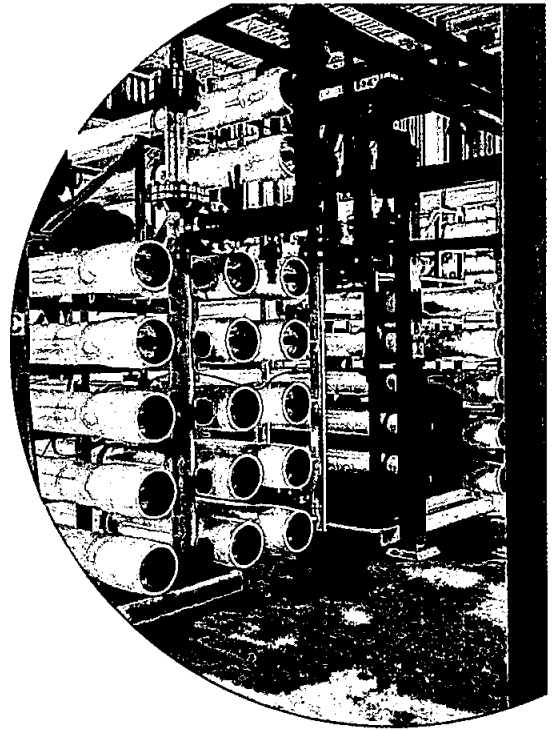
\$4,284

SHIPPING

\$85.68

TOTAL

\$4,369.68





CARMEL AREA WASTEWATER DISTRICT REGULAR BOARD MEETING MINUTES

Thursday, 9:00 a.m., August 26, 2021

Teleconference Webinar

(See California Executive Order N-08-21)

CALL TO ORDER - ROLL CALL - The meeting was called to order at 9:03 a.m.

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

Absent: None

A quorum was present.

Others: Barbara Buikema, General Manager, Carmel Area Wastewater District (CAWD or District)
Rachél Lather, District Engineer, CAWD
Patrick Treanor, Plant Engineer, CAWD
Ed Waggoner, Plant Superintendent, CAWD
Kevin Young, Operations Supervisor, CAWD
Daryl Lauer, Collections Superintendent, CAWD
Mark Dias, Safety and Regulatory Compliance Administrator
Domine Barringer, Administrative Assistant/Board Clerk, CAWD
Kristina Pacheco, Administrative Assistant/Board Clerk, CAWD
Karla Cristi, CMMS & Plant Administrator
Rob Wellington, Wellington Law Offices, CAWD Legal Counsel
President Froke, Board Member of Pebble Beach Community Services District (PBCSD)
Mike Niccum, General Manager, PBCSD
Nikki Nedeff, Big Sur Land Trust

1. Public Comments:

There were no public comments.

2. Agenda Changes:

There were no agenda changes.

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

Consists of routine items for which Board approval can be taken with a single motion and vote.

Board Action

After extensive discussion, a motion was made by Director Siegfried and seconded by Director Rachel to agendaize an item from the Plant Operations Report (Agenda item #15) for the next board meeting, specifically the Iorex corrosion control system installed in December of 2019 at the Chlorine/Dechlorination Building. After a Roll Call vote, the Board unanimously approved the item for next month's meeting agenda.

A second motion to receive and approve the amended Consent Calendar and Agenda was made by President White and seconded by Director Townsend. After a Roll Call vote, the Board unanimously received and approved the following July 2021 Consent Calendar/Agenda items:

- 3.** July 29, 2021, Regular Board Meeting Minutes; July 29, 2021, Special Board Meeting Minutes & August 3, 2021, Pension Committee Meeting Minutes
- 4.** Bank Statement Review by Hayashi Wayland
- 5.** Schedule of Cash Receipts & Disbursements
- 6.** Register of Disbursements - Carmel Area Wastewater District
- 7.** Register of Disbursements – CAWD/PBCSD Reclamation Project
- 8.** Financial Statements and Supplementary Schedules
- 9.** Collection System Superintendent’s Report
- 10.** Safety and Regulatory Compliance Report
- 11.** Treatment Facility Operations Report
- 12.** Laboratory/Environmental Compliance Report
- 13.** Capital Projects Report/Implementation Plan
- 14.** Project Summaries
- 15.** Plant Operations Report
- 16.** Maintenance Projects Report
- 17.** Principal Engineer Monthly Report of General Engineering

ACTION ITEMS BEFORE 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, Vote and Action.

RESOLUTIONS

- 18. Resolution No. 2021-47;** Report by Rachél Lather

Board Action

After discussion, a motion to approve the resolution was made by Director Siegfried and seconded by Director Rachel. Following a Roll Call vote, the Board unanimously passed Resolution 2021-47, accepting the lowest responsible bid for “2021 Pipeline Spot Repairs Project #21-02” and award of the contract in an amount not to exceed \$136, 000 to Rooter King, Inc.

- 19. Resolution No. 2021-48;** Report by Rachél Lather

Board Action

A motion to approve the resolution was made by Director D’Ambrosio and seconded by Director Siegfried. Following a Roll Call vote, the Board unanimously passed Resolution 2021-48, authorizing the General Manager to amend a contract with MNS Engineers, Inc. for \$32,690 to provide utility locating services for the Scenic Road Pipe Bursting Project #20-08.

20. Resolution No. 2021-49; Report by Patrick Treanor

Nikki Nedeff from Big Sur Land Trust spoke in support of approval of the Mitigated Negative Declaration and Mitigation Monitoring and Reporting Plan. She commented on the importance of this project to the entire Carmel River Floodplain Restoration and Environmental Enhancement Project.

Board Action

A motion to approve the resolution was made by Director Siegfried and seconded by Director D'Ambrosio. Following a Roll Call vote, the Board unanimously passed Resolution 2021-49, adopting a Mitigated Negative Declaration and Mitigation Monitoring and Reporting Plan for the "CRFREE Mitigation Pipeline Undergrounding Project" #19-21.

21. Resolution No. 2021-50; Report by Patrick Treanor

Board Action

A motion to approve the resolution was made by Director Rachel and seconded by Director Siegfried. Following a Roll Call vote, the Board unanimously passed Resolution 2021-50, accepting the lowest responsible and responsive bid for the "Sulfuric Acid and Citric Acid Storage and Feed Systems Project" #18-26 and award the construction contract to Monterey Peninsula Engineering in an amount not to exceed \$377,000.

22. Resolution No. 2021-51; Report by Jim Grover

Board Action

After brief discussion, a motion to approve the resolution was made by Director D'Ambrosio and seconded by Director Rachel. Following a Roll Call vote, the Board unanimously passed Resolution 2021-51, authorizing the annual adjustment of the District's Reserve Fund balances by transferring \$3,455,840 to the Capital Fund and \$2,013,539 to the Capital Improvement Reserve from the General O&M Fund in accordance with the District's Reserve Policy.

23. Resolution No. 2021-52; Report by Barbara Buikema

Board Action

After extensive discussion, a motion to approve an amended resolution was made by Director Siegfried and seconded by Director Rachel. Following a Roll Call vote, the Board unanimously passed Resolution 2021-52, approving the COVID-19 Vaccination Policy Requirements as amended.

COMMUNICATIONS

24. General Manager Report - oral report

Barbara Buikema reported on the CRFREE project and the negotiation of a contract between the District and Monterey County in order to go forward with the District's portion of the CRFREE project.

Barbara Buikema also reported on the publication of the California Coastal Commission's Sea Level Rise Planning Guide in which CAWD is named.

OTHER ITEMS BEFORE THE BOARD

25. Ad Hoc Committee formation – Report by Barbara Buikema

The Board listened to the report for formation and assignment of two new ad hoc committees, the "Construction Committee" for project #18-01 and the "Tree & Trail Committee" for construction of a Rio Park path and the elimination/replacement of eucalyptus trees around the treatment facility. A motion to accept assignments was made by Director Townsend and seconded by Director Rachel. The Board unanimously approved to accept the formation of the two committees and assigned President White and Director Rachel to the Construction Committee and Director Siegfried and Director D'Ambrosio, with Director Townsend as an alternate, to the Tree & Trail Committee.

INFORMATION/DISCUSSION ITEMS

26. PBCSD July 30, 2021, Board meeting report was given by General Manager, Barbara Buikema.

27. A summary of the Monterey County Treasurer Report was given by General Manager, Barbara Buikema.

28. Summary of the August 3, 2021, Pension Committee meeting was given by General Manager, Barbara Buikema.

29. Announcements on subjects of interest to the Board made by members of the Board or Staff

- The August 27, 2021, PBCSD Board meeting was cancelled. Director Rachel is scheduled for the September 24, 2021, PBCSD Board meeting.
- Director Siegfried is scheduled to attend the October 19, 2021, Special Districts Association of Monterey County meeting.
- President White and Director Townsend are scheduled to attend the Reclamation Management Committee meeting on November 9, 2021.

30. CLOSED SESSION: *As permitted by Government Code Section 54956 et seq., the Board of Directors may adjourn to a Closed Session to consider specific matters dealing with litigation, certain personnel matters, real property negotiations, or to confer with the District's Meyers-Milias-Brown representative.*

The Board adjourned to closed session at 10:11 a.m. and convened in closed session at 10:23 a.m. The Board came out of closed session at 10:30 a.m. and Legal Counsel reported hereby that in the closed session the Board took up the item listed on the agenda for Performance Evaluation of Legal Counsel and no reportable action was taken.

31. 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 9:00 a.m., Thursday, September 30, 2021, or an alternate acceptable date, via teleconference webinar.

As Reported To:

Domine Barringer, Secretary to the Board

APPROVED:

Ken White, President



CARMEL AREA WASTEWATER DISTRICT (CAWD)
BUDGET COMMITTEE MEETING MINUTES
September 14, 2021, at 9:00 a.m.
Via "ZOOM"

CALL TO ORDER - ROLL CALL The meeting commenced at 9:10 a.m.

Present: Director Greg D'Ambrosio, Committee member
 Director Robert Siegfried, Committee member
 Ralph Marcello, Contracted Independent Auditor

Absent: None

AGENDA ITEMS:

1. The Committee discussed the previous fiscal year budget, the auditor process and analysis.

ADJOURNMENT: *There being no further business to come before the Committee, the meeting concluded at 9:29 a.m. The next Regular Board Meeting will be held at 9:00 a.m., Thursday, September 30, 2021, or an alternate acceptable date, via teleconference webinar. The teleconference webinar is hosted through Zoom and you may receive access by visiting our website homepage, www.cawd.org, calling the District office at 831-624-1248 or via email at downstream@cawd.org.*

As Reported To:

Kristina Pacheco, Pro Tem Board Secretary

APPROVED:

Ken White, President



HAYASHI | WAYLAND

INDEPENDENT ACCOUNTANTS' REPORT

September 15, 2021

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 August 2021. 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 reconciliations for the Monterey County checking account, the Chase Bank O&M account and the Chase Bank payroll 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.



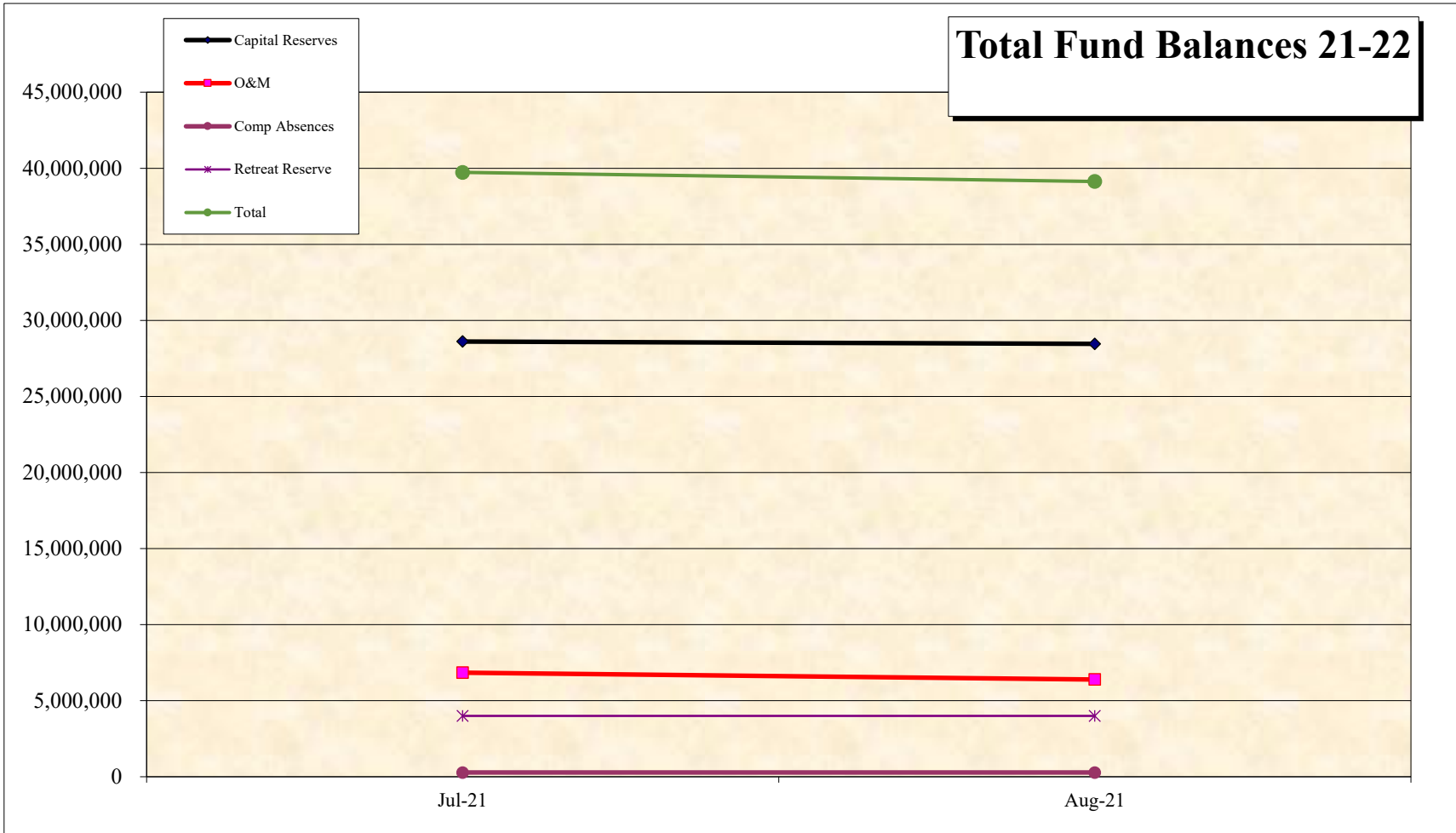
Robert Lee, CPA
Partner
Hayashi Wayland

Cc: Mr. Ken White, President

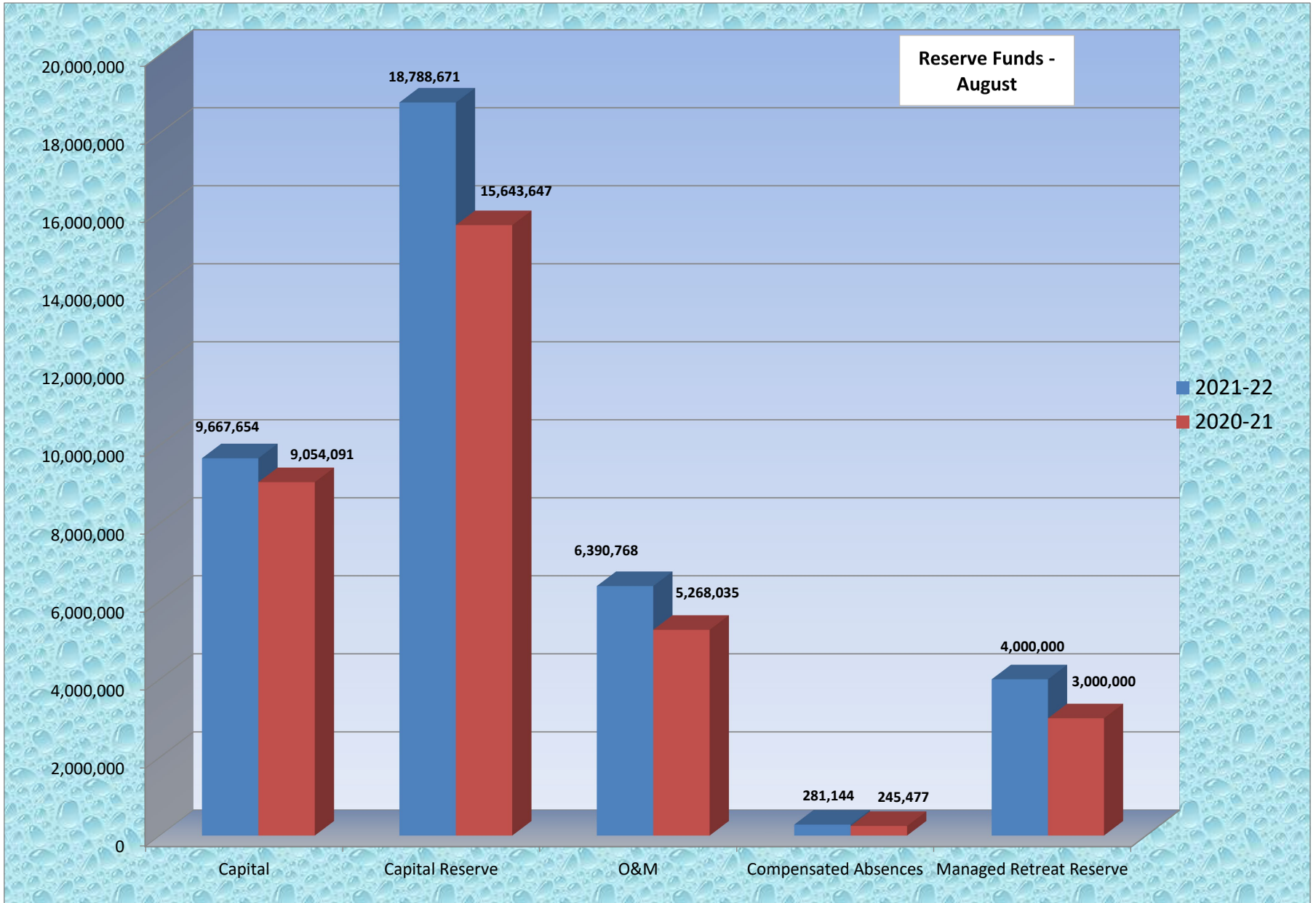


Carmel Area Wastewater District
Schedule of Cash Receipts and Disbursements - AUGUST 2021

	Capital Fund	Capital Improvement Reserve	General O & M Fund	Compensated Accruals Reserve	Defend or Managed Retreat Reserve	COUNTY Total Fund Balance	Chase Bank O & M Balance	Chase Bank PR Balance	L.A.I.F. Balance
BALANCE BEGINNING OF MONTH	\$9,809,191	\$18,797,671	\$6,840,232	\$281,144	\$4,000,000	\$39,728,238	\$548,020	\$11,873	\$1,195,868
Receipts:									
User Fees							2,633		
Property Taxes							115,000		
PBCSD Treatment Fees							87,240		
Reclamation O & M reimbursement							996		
Reclamation capital billing							8,415		
Permits							15,697		
PBCSD capital billing							7,533		
Other misc. revenue							65,092		
Interest income							133,290		
Connection Fees							3,076		
CCLEAN receipts									
CRFree Project grant funds									
CSRMA Wellness rebates									
Corona Road deposit									
Void checks-replace lost check									
Total Receipts	0	0	0	0	0	0	438,972	0	0
Fund Transfers:									
Transfers to Chase Bank O&M	(141,537)	(9,000)	(449,463)				600,000		
Transfers to Chase Bank PR							(435,000)	435,000	
Transfer to Defend or Managed Retreat Fund									
Intra-fund transfers for capital expenditures									
Rebalance Capital and O&M Reserves									
Total Transfers	(141,537)	(9,000)	(449,463)	0	0	(600,000)	165,000	435,000	0
Disbursements:									
Operations and capital							327,274		
Payroll & payroll taxes								336,054	
Employee Dental reimbursements							2,253		
CALPERS EFT							52,443		
CAWD SAM pension EFT							0		
CAWD pension loans EFT							881		
Home Depot EFT							875		
US Bank EFT							19,935		
Deferred comp contributions EFT							19,524	0	
PEHP contributions EFT							3,198	0	
Bank/ADP fees							0	828	
Highlands Bond Debt Service Payment									
Annual County admin billing fee									
Void check cashed in error							11,318		
GASB 68 report fee & SSA 218 fee							700		
Total Disbursements	0	0	0	0	0	0	438,401	336,882	0
BALANCE END OF MONTH	9,667,654	18,788,671	6,390,768	281,144	4,000,000	39,128,238	713,591	109,990	1,195,868



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



Carmel Area Wastewater District
Disbursements
Aug-21

Date	Check	Vendor	Description	Amount
08/03/21	1874	Acme Analytical Solutions	Acetic acid and iodine solution	231.32
08/03/21	1875	Amazon Capital Services	Small tools for Collections	921.61
08/03/21	1876	Amerigas	Propane tank inspection	180.41
08/03/21	1877	American Fidelity Assurance Company	Flex accounts	111.53
08/03/21	1878	American Fidelity Assurance	Employee insurance premiums	586.16
08/03/21	1879	AT&T Mobility	SCADA text modem	65.09
08/03/21	1880	AT&T CALNET 3	Admin and Plant alarms	77.59
08/03/21	1881	AT&T	IP card and Plant fiber router	727.88
08/03/21	1882	Barbara Buikema	Dental	1,420.00
08/03/21	1883	Biobot Analytics	Influent sample testing	700.00
08/03/21	1884	Bright Star Cleaning Services	Cleaning trailer and Kodiak truck	570.00
08/03/21	1885	Bryan Mailey Electric	VFD installation, power to microturbine, water pump fuse, belt press control panel, aeration flow meter work, install digester temperature transmitter and wireless access points, test Highlands pump station generator, install inverters at pump stations and install ATS switch at Hacienda pump station	10,710.00
08/03/21	1886	Buckles-Smith Electric	Meltric plug cover inlet cap	176.93
08/03/21	1887	Cintas Corporation	Laundry service	806.68
08/03/21	1888	Comcast	Admin internet	233.51
08/03/21	1889	Conte's Generator Service	Onan/Cummins camera generator	5,134.75
08/03/21	1890	Culligan Water	C&I Exchange service for lab	42.35
08/03/21	1891	Direct TV	Monthly service	95.24
08/03/21	1892	DKF Solutions Group	Cal OSHA updates to COVID exposure plan	600.00
08/03/21	1893	Edges Electrical	500ft of electrical wire	101.79
08/03/21	1894	Equitable Financial Life Insurance	Life insurance, long-term and short-term disability premiums	2,645.09
08/03/21	1895	Ferguson Enterprises	Operating supplies	369.77
08/03/21	1896	First Alarm	Plant alarm service	407.64
08/03/21	1897	GLS US	Shipping of lab samples	76.85
08/03/21	1898	Got.Net	Domain parking	24.20
08/03/21	1899	Grainger	Corrosion protective tape	37.99
08/03/21	1900	Gregory Ange	Employee certificate renewal	101.00
08/03/21	1901	Harrington Industrial Plastics	PVC schedule 80 flange	46.08
08/03/21	1902	Idexx Laboratories	Lab supplies	680.36
08/03/21	1903	Image Source	Plant copier billing	83.99
08/03/21	1904	Jason Veile	Dental	291.00
08/03/21	1905	Manco	Influent VFD-Eaton 50hp	6,410.00
08/03/21	1906	Michael Rachel	Dental	266.00
08/03/21	1907	Mission Communications	Battery replacement kits	244.00
08/03/21	1908	MNS Engineers	Carmel Valley Sewer System Expansion Study Project 19-09	2,777.50
08/03/21	1909	Motion Industries	Rotary valve actuator	384.31
08/03/21	1910	Municipal Maintenance Equipment	Vacuum tube clamps	184.82
08/03/21	1911	Patelco Credit Union	Health savings accounts contributions	5,203.69
08/03/21	1912	Quill LLC	Admin and Plant office supplies	1,007.88
08/03/21	1913	Rachel Lather-Hidalgo	Vision copays	120.00

**Carmel Area Wastewater District
Disbursements
Aug-21**

Date	Check	Vendor	Description	Amount
08/03/21	1914	Raymond DeOcampo	CWEA annual membership and certificate renewal	293.00
08/03/21	1915	Rooter King Monterey County	Reimburse permit fee for change in work	120.00
08/03/21	1916	Scarborough Lumber & Building	Operating supplies	109.83
08/03/21	1917	Sigma-Aldrich	Lab supplies	445.69
08/03/21	1918	Underground Service Alert	Annual membership renewal	2,117.98
08/03/21	1919	Univar Solutions USA Inc.	Sodium bisulfate and hypochlorite	11,331.98
08/03/21	1920	Vision Service Plan	Vision insurance premium	616.00
08/03/21	1921	Wellington Law Offices	District legal services	5,992.00
08/18/21	1922	4imprint, Inc.	Logo sport duffels	391.83
08/18/21	1923	Applied Marine Sciences	CCLEAN expenses	4,595.50
08/18/21	1924	AT&T Mobility	Cell and mobile device service	672.57
08/18/21	1925	AT&T CALNET 3	Plant fiber	612.67
08/18/21	1926	AT&T	Admin alarm	44.63
08/18/21	1927	Automationdirect.com	Circuit breakers	280.15
08/18/21	1928	Beth Ingram	HR services	7,875.00
08/18/21	1929	Blackburn MFG	Rhino hybrid 3-rail posts and stickers	633.55
08/18/21	1930	Cal-Am Water	Monthly service	1,683.15
08/18/21	1931	Carmel Marina Corporation	Plant rolloffs	1,205.34
08/18/21	1932	CAWD\PBSCD Reclamation Project	Reimbursement for tertiary lab PG&E	652.80
08/18/21	1933	Commercial Truck Co.	Synthetic TE fluid and coolant	289.36
08/18/21	1934	Datco Services Corporation	Controlled substance test	54.50
08/18/21	1935	Edges Electrical	Electrical supplies	727.42
08/18/21	1936	Fastenal Company	Operating supplies	1,894.42
08/18/21	1937	FGL Environmental	Sample analysis	230.00
08/18/21	1938	Grainger	Operating supplies	766.14
08/18/21	1939	GraniteRock Construction	Progress payment #1 for the Upper Rancho Canada Pipe Relocation Project #19-13 (CAPITAL)	104,186.50
08/18/21	1940	Green Infrastructure Design	ARC GIS update	560.00
08/18/21	1941	Hach Company	Lab supplies	172.97
08/18/21	1942	Idexx Laboratories	Lab supplies	3,996.09
08/18/21	1943	Instrument Technology Corp.	Exchange camera head	440.61
08/18/21	1944	Johnson Marigot Consulting	CRFREE Mitigation Pipeline Undergrounding project #19-21	7,670.54
08/18/21	1945	Lemos Service Inc.	Propane	148.31
08/18/21	1946	Liberty Composting	Sludge hauling	7,665.57
08/18/21	1947	McMaster-Carr	Operating supplies	81.90
08/18/21	1948	Monterey Bay Analytical Services	Sample analysis	409.00
08/18/21	1949	Monterey Regional Waste Mgmt. Dist.	Disposal of epoxy	241.00
08/18/21	1950	Monterey Auto Supply	Oil filter	43.69
08/18/21	1951	Murphy Austin Adams Schoenfeld LLP	Legal services-Monterey County option agreement-CRFREE Mitigation Pipeline Undergrounding project #19-21	7,299.00
08/18/21	1952	Peninsula Welding & Medical Supply	Non-liquid cylinders rent	103.20
08/18/21	1953	Pacific Gas & Electric	Monthly service	35,832.40
08/18/21	1954	PK Safety Supply	Ammonia calibration gas cylinder	620.18
08/18/21	1955	PMC Engineering LLC	Stainless steel polyurethane jacketed 75ft cable	3,407.12

**Carmel Area Wastewater District
Disbursements
Aug-21**

Date	Check	Vendor	Description	Amount
08/18/21	1956	P S O M A S	Upper Rancho Canada Pipe Relocation Project #19-13 (CAPITAL)	7,630.00
08/18/21	1957	Pure Water	Monthly service	111.50
08/18/21	1958	Quinn Company	Load tests for generators	8,200.00
08/18/21	1959	Raymond DeOcampo	Dental	276.00
08/18/21	1960	Rincon Consultants	Upper Rancho Canada Pipe Relocation Project #19-13 (CAPITAL)	5,083.00
08/18/21	1961	Smitty's Janitorial	Monthly service	900.00
08/18/21	1962	SRT Consultants	Carmel Meadows Gravity Sewer Project #19-03 final design and Bay/Scenic Pump Station Rehab Project #20-07 (CAPITAL)	24,637.29
08/18/21	1963	Teledyne Instruments	Model 3700 portable sampler	5,695.23
08/18/21	1964	Town & Country Gardening	Monthly service	650.00
08/18/21	1965	Wibur-Ellis Company	9600lbs of Cal Nit Sol	2,284.80
08/18/21	1966	WorkSmart Automation	Migration of reports to Ignition	1,160.00
08/25/21	1967	Monterey County Clerk	Notice of Determination fee for the CRFREE Mitigation Pipeline Undergrounding project #19-21	2,530.25
08/27/21	1968	S&D DiMaggio Construction	50% remodel costs for the Ops building bathroom in the basement less retention (CAPITAL)	9,000.00
				329,526.67

CAWD/PBCSD Reclamation Project
Disbursements
Aug-21

Date	Check	Vendor	Description	Amount
08/02/21	344	Acme Analytical Solutions	Acetic acid and iodine solution	310.35
08/02/21	345	Brenntag Pacific	Ammonium hydroxide	3,915.16
08/02/21	346	Carmel Area Wastewater District	Reimburse for sodium bisulfate and hydroxide	7,647.07
08/02/21	347	Hach Company	Desiccant cartridges	103.16
08/02/21	348	Idexx Laboratories	Lab supplies	680.36
08/02/21	349	Monterey Peninsula Water Management District	Annual O&M and User Fee bills	105,377.69
08/02/21	350	Pebble Beach Company	Reimburse for COP interest expense	71.24
08/02/21	351	Pebble Beach Community Services District	Reimburse for June O&M and capital bills	157,151.47
08/02/21	352	Professional Water Technologies	Opticlean-S-45 antiscalent	3,755.09
08/02/21	353	Sigma-Aldrich, Inc.	Lab supplies	445.69
08/02/21	354	T&T Valve and Instrument	Bray valve lever handle	41.21
08/02/21	355	Thatcher Company of California	Sulfuric acid	2,158.41
08/18/21	356	Applied Industrial Technologies	Baldor 75hp motor	343.85
08/18/21	357	Automationdirect.com	Circuit breakers	210.11
08/18/21	358	Cal-Am Water	Hydrant Meter K monthly service	2,546.23
08/18/21	359	Carmel Area Wastewater District	O&M and capital reimbursements	80,588.76
08/18/21	360	Idexx Laboratories	Lab supplies	3,996.08
08/18/21	361	Liberty Process Equipment	CDQ rotor, drive shaft and repair parts	3,167.21
08/18/21	362	Monterey Bay Analytical Services	Sample analysis	1,332.00
08/18/21	363	Pebble Beach Company	Bond principal and interest, letter of credit fees current and past and project rep costs	267,820.64
08/18/21	364	Pebble Beach Community Services District	O&M and capital reimbursements	41,092.73
08/18/21	365	Pacific Gas & Electric	Tertiary billing	23,051.78
08/18/21	366	Professional Water Technologies	H2O 530 & 540 Micron filter cartridges	4,193.21
08/18/21	367	Thermo Electron North America	Lab supplies	713.60
				710,713.10



**Financial Statements
and
Supplementary Schedules**

August 2021

September 30, 2021

Carmel Area Wastewater District

Balance Sheet

August 2021

ASSETS			
Current Assets			
Cash			
Cash	41,147,686.34		
TOTAL Cash	41,147,686.34		41,147,686.34
Other Current Assets			
Other Current Assets	958,568.37		
TOTAL Other Current Assets	958,568.37		958,568.37
TOTAL Current Assets			42,106,254.71
Fixed Assets			
Land			
Land	308,059.76		
TOTAL Land	308,059.76		308,059.76
Treatment Structures			
Treatment Structures	70,358,452.24		
TOTAL Treatment Structures	70,358,452.24		70,358,452.24
Treatment Equipment			
Treatment Equipment	8,732,949.40		
TOTAL Treatment Equipment	8,732,949.40		8,732,949.40
Collection Structures			
Collection Structures	1,238,843.71		
TOTAL Collection Structures	1,238,843.71		1,238,843.71
Collection Equipment			
Collection Equipment	1,509,600.36		
TOTAL Collection Equipment	1,509,600.36		1,509,600.36
Sewers			13,293,350.40
Disposal Facilities			
Disposal Facilities	1,643,890.85		
TOTAL Disposal Facilities	1,643,890.85		1,643,890.85
Other Fixed Assets			
Other Fixed Assets	4,541,519.07		
TOTAL Other Fixed Assets	4,541,519.07		4,541,519.07
Capital Improvement Projects			
Capital Improvement Projects	1,852,916.64		
TOTAL Capital Improvement Projects	1,852,916.64		1,852,916.64
Accumulated depreciation		(53,931,869.10)	
TOTAL Fixed Assets			49,547,713.33
Other Assets			
Other Assets		1,153,096.34	
TOTAL Other Assets		1,153,096.34	
TOTAL ASSETS		92,807,064.38	

Carmel Area Wastewater District

Balance Sheet

August 2021

LIABILITIES	
Current Liabilities	
Current Liabilities	647,493.80
TOTAL Current Liabilities	<u>647,493.80</u>
Long-Term Liabilities	
Long Term Liabilities	715,552.54
TOTAL Long-Term Liabilities	<u>715,552.54</u>
TOTAL LIABILITIES	<u>1,363,046.34</u>
NET POSITION	
Net Assets	92,243,119.81
Year-to-Date Earnings	(799,101.77)
TOTAL NET POSITION	<u>91,444,018.04</u>
TOTAL LIABILITIES & NET POSITION	<u>92,807,064.38</u>

Carmel Area Wastewater District
Budgeted Income Statement
Year-to-Date Variance, August 2021 - current month, Consolidated by account

	<i>2 Months Ended August 31, 2021</i>	<i>2 Months Ended August 31, 2021 Budget</i>	<i>Variance Fav/<Unf></i>	<i>% Var</i>
Income				
Revenue	413,881.30	313,901.66	99,979.64	31.9 %
TOTAL Income	<u>413,881.30</u>	<u>313,901.66</u>	<u>99,979.64</u>	31.9 %
Adjustments				
Discounts	5.07	0.00	5.07	
TOTAL Adjustments	<u>5.07</u>	<u>0.00</u>	<u>5.07</u>	
*****	<u>413,886.37</u>	<u>313,901.66</u>	<u>99,984.71</u>	31.9 %
***** OPERATING INCOME	<u>413,886.37</u>	<u>313,901.66</u>	<u>99,984.71</u>	31.9 %
Operating Expenses				
Salaries and Payroll Taxes				
Salaries and Payroll Taxes	678,932.56	669,365.59	(9,566.97)	-1.4 %
TOTAL Salaries and Payroll Taxes	<u>678,932.56</u>	<u>669,365.59</u>	<u>(9,566.97)</u>	-1.4 %
Employee Benefits				
Employee Benefits	164,634.84	255,246.61	90,611.77	35.5 %
TOTAL Employee Benefits	<u>164,634.84</u>	<u>255,246.61</u>	<u>90,611.77</u>	35.5 %
Director's Expenses				
Director's Expenses	4,660.80	5,650.00	989.20	17.5 %
TOTAL Director's Expenses	<u>4,660.80</u>	<u>5,650.00</u>	<u>989.20</u>	17.5 %
Truck and Auto Expenses				
Truck and Auto Expenses	15,195.18	18,480.86	3,285.68	17.8 %
TOTAL Truck and Auto Expenses	<u>15,195.18</u>	<u>18,480.86</u>	<u>3,285.68</u>	17.8 %
General and Administrative				
General and Administrative	131,223.50	171,350.00	40,126.50	23.4 %
TOTAL General and Administrative	<u>131,223.50</u>	<u>171,350.00</u>	<u>40,126.50</u>	23.4 %
Office Expense				
Office Expense	2,865.78	9,162.48	6,296.70	68.7 %
TOTAL Office Expense	<u>2,865.78</u>	<u>9,162.48</u>	<u>6,296.70</u>	68.7 %
Operating Supplies				
Operating Supplies	59,963.07	81,732.04	21,768.97	26.6 %
TOTAL Operating Supplies	<u>59,963.07</u>	<u>81,732.04</u>	<u>21,768.97</u>	26.6 %
Contract Services				
Contract Services	191,912.77	329,313.46	137,400.69	41.7 %
TOTAL Contract Services	<u>191,912.77</u>	<u>329,313.46</u>	<u>137,400.69</u>	41.7 %

Carmel Area Wastewater District
Budgeted Income Statement
Year-to-Date Variance, August 2021 - current month, Consolidated by account

	<i>2 Months Ended August 31, 2021</i>	<i>2 Months Ended August 31, 2021 Budget</i>	<i>Variance Fav/<Unf></i>	<i>% Var</i>
Repairs and Maintenance				
<i>Repairs and Maintenance</i>	35,345.04	126,125.00	90,779.96	72.0 %
TOTAL Repairs and Maintenance	35,345.04	126,125.00	90,779.96	72.0 %
Utilities				
<i>Utilities</i>	60,571.07	76,844.66	16,273.59	21.2 %
TOTAL Utilities	60,571.07	76,844.66	16,273.59	21.2 %
Travel and Meetings				
<i>Travel and Meetings</i>	3,042.26	9,155.82	6,113.56	66.8 %
TOTAL Travel and Meetings	3,042.26	9,155.82	6,113.56	66.8 %
Permits and Fees				
<i>Permits and Fees</i>	7,832.00	6,700.00	(1,132.00)	-16.9 %
TOTAL Permits and Fees	7,832.00	6,700.00	(1,132.00)	-16.9 %
Memberships and Subscriptions				
<i>Memberships and Subscriptions</i>	1,406.18	2,156.66	750.48	34.8 %
TOTAL Memberships and Subscriptions	1,406.18	2,156.66	750.48	34.8 %
Safety				
<i>Safety</i>	4,841.62	8,168.36	3,326.74	40.7 %
TOTAL Safety	4,841.62	8,168.36	3,326.74	40.7 %
Other Expenses				
<i>Other Expense</i>	60.00	750.02	690.02	92.0 %
TOTAL Other Expenses	60.00	750.02	690.02	92.0 %
TOTAL Operating Expenses	1,362,486.67	1,770,201.56	407,714.89	23.0 %
***** OPERATING INCOME (LOSS)	(948,600.30)	(1,456,299.90)	507,699.60	34.9 %
Non-op Income, Expense, Gain or Loss				
Other Income or Gain				
<i>Other Income, Gain, Expense and Loss</i>	149,498.53	0.00	149,498.53	
TOTAL Other Income or Gain	149,498.53	0.00	149,498.53	
TOTAL Non-op Income, Expense, Gain or Loss	149,498.53	0.00	149,498.53	
***** NET INCOME (LOSS)	(799,101.77)	(1,456,299.90)	657,198.13	45.1 %
***** NET INCOME (LOSS)	(799,101.77)	(1,456,299.90)	657,198.13	45.1 %

Carmel Area Wastewater District
Budgeted Operating Expenses-Maintenance
Year-to-Date Variance, August 2021 - current month, Consolidated by
account, Department 4

	<i>2 Months Ended August 31, 2021</i>	<i>2 Months Ended August 31, 2021 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				
<i>Salaries and Payroll Taxes</i>	97,669.67	100,995.97	3,326.30	3.3 %
TOTAL Salaries and Payroll Taxes	97,669.67	100,995.97	3,326.30	3.3 %
Employee Benefits				
<i>Employee Benefits</i>	29,867.89	48,104.22	18,236.33	37.9 %
TOTAL Employee Benefits	29,867.89	48,104.22	18,236.33	37.9 %
Truck and Auto Expenses				
<i>Truck and Auto Expenses</i>	0.00	1,388.34	1,388.34	100.0 %
TOTAL Truck and Auto Expenses	0.00	1,388.34	1,388.34	100.0 %
General and Administrative				
<i>General and Administrative</i>	11,172.57	5,666.66	(5,505.91)	-97.2 %
TOTAL General and Administrative	11,172.57	5,666.66	(5,505.91)	-97.2 %
Office Expense				
<i>Office Expense</i>	277.00	375.00	98.00	26.1 %
TOTAL Office Expense	277.00	375.00	98.00	26.1 %
Operating Supplies				
<i>Operating Supplies</i>	3,881.90	9,550.04	5,668.14	59.4 %
TOTAL Operating Supplies	3,881.90	9,550.04	5,668.14	59.4 %
Contract Services				
<i>Contract Services</i>	52,185.20	104,016.68	51,831.48	49.8 %
TOTAL Contract Services	52,185.20	104,016.68	51,831.48	49.8 %
Repairs and Maintenance				
<i>Repairs and Maintenance</i>	15,660.21	37,833.32	22,173.11	58.6 %
TOTAL Repairs and Maintenance	15,660.21	37,833.32	22,173.11	58.6 %
Utilities				
<i>Utilities</i>	819.68	783.34	(36.34)	-4.6 %
TOTAL Utilities	819.68	783.34	(36.34)	-4.6 %
Travel and Meetings				
<i>Travel and Meetings</i>	681.94	1,066.66	384.72	36.1 %

Carmel Area Wastewater District
Budgeted Operating Expenses-Maintenance
Year-to-Date Variance, August 2021 - current month, Consolidated by
account, Department 4

	<i>2 Months Ended August 31, 2021</i>	<i>2 Months Ended August 31, 2021 Budget</i>	<i>Variance Fav/<Unf></i>	<i>% Var</i>
TOTAL Travel and Meetings	681.94	1,066.66	384.72	36.1 %
Permits and Fees				
Permits and Fees	4,531.00	3,500.00	(1,031.00)	-29.5 %
TOTAL Permits and Fees	4,531.00	3,500.00	(1,031.00)	-29.5 %
Memberships and Subscriptions				
Memberships and Subscriptions	101.00	400.00	299.00	74.8 %
TOTAL Memberships and Subscriptions	101.00	400.00	299.00	74.8 %
Safety				
Safety	3,430.08	5,200.02	1,769.94	34.0 %
TOTAL Safety	3,430.08	5,200.02	1,769.94	34.0 %
TOTAL Operating Expenses	220,278.14	318,880.25	98,602.11	30.9 %
***** OPERATING INCOME (LOSS)	(220,278.14)	(318,880.25)	98,602.11	30.9 %
***** NET INCOME (LOSS)	(220,278.14)	(318,880.25)	98,602.11	30.9 %
***** NET INCOME (LOSS)	(220,278.14)	(318,880.25)	98,602.11	30.9 %

Carmel Area Wastewater District
Budgeted Operating Expenses-Collections
Year-to-Date Variance, August 2021 - current month, Consolidated by
account, Department 5

	<i>2 Months Ended August 31, 2021</i>	<i>2 Months Ended August 31, 2021 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				
<i>Salaries and Payroll Taxes</i>	125,144.07	116,596.35	(8,547.72)	-7.3 %
TOTAL Salaries and Payroll Taxes	125,144.07	116,596.35	(8,547.72)	-7.3 %
Employee Benefits				
<i>Employee Benefits</i>	40,382.86	53,627.15	13,244.29	24.7 %
TOTAL Employee Benefits	40,382.86	53,627.15	13,244.29	24.7 %
Truck and Auto Expenses				
<i>Truck and Auto Expenses</i>	13,439.01	13,991.68	552.67	3.9 %
TOTAL Truck and Auto Expenses	13,439.01	13,991.68	552.67	3.9 %
General and Administrative				
<i>General and Administrative</i>	17,382.80	27,083.34	9,700.54	35.8 %
TOTAL General and Administrative	17,382.80	27,083.34	9,700.54	35.8 %
Office Expense				
<i>Office Expense</i>	79.45	1,566.66	1,487.21	94.9 %
TOTAL Office Expense	79.45	1,566.66	1,487.21	94.9 %
Operating Supplies				
<i>Operating Supplies</i>	8,822.29	6,533.32	(2,288.97)	-35.0 %
TOTAL Operating Supplies	8,822.29	6,533.32	(2,288.97)	-35.0 %
Contract Services				
<i>Contract Services</i>	38,425.29	46,225.00	7,799.71	16.9 %
TOTAL Contract Services	38,425.29	46,225.00	7,799.71	16.9 %
Repairs and Maintenance				
<i>Repairs and Maintenance</i>	10,373.73	73,916.68	63,542.95	86.0 %
TOTAL Repairs and Maintenance	10,373.73	73,916.68	63,542.95	86.0 %
Utilities				
<i>Utilities</i>	7,351.71	7,716.66	364.95	4.7 %
TOTAL Utilities	7,351.71	7,716.66	364.95	4.7 %
Travel and Meetings				
<i>Travel and Meetings</i>	732.63	2,734.16	2,001.53	73.2 %

Carmel Area Wastewater District
Budgeted Operating Expenses-Collections
*Year-to-Date Variance, August 2021 - current month, Consolidated by
account, Department 5*

	<i>2 Months Ended August 31, 2021</i>	<i>2 Months Ended August 31, 2021 Budget</i>	<i>Variance Fav/<Unf></i>	<i>% Var</i>
TOTAL Travel and Meetings	732.63	2,734.16	2,001.53	73.2 %
Permits and Fees				
Permits and Fees	3,301.00	3,200.00	(101.00)	-3.2 %
TOTAL Permits and Fees	3,301.00	3,200.00	(101.00)	-3.2 %
Memberships and Subscriptions				
Memberships and Subscriptions	384.00	663.34	279.34	42.1 %
TOTAL Memberships and Subscriptions	384.00	663.34	279.34	42.1 %
Safety				
Safety	1,411.54	2,468.34	1,056.80	42.8 %
TOTAL Safety	1,411.54	2,468.34	1,056.80	42.8 %
Other Expenses				
Other Expense	0.00	83.34	83.34	100.0 %
TOTAL Other Expenses	0.00	83.34	83.34	100.0 %
TOTAL Operating Expenses	267,230.38	356,406.02	89,175.64	25.0 %
***** OPERATING INCOME (LOSS)	(267,230.38)	(356,406.02)	89,175.64	25.0 %
***** NET INCOME (LOSS)	(267,230.38)	(356,406.02)	89,175.64	25.0 %
***** NET INCOME (LOSS)	(267,230.38)	(356,406.02)	89,175.64	25.0 %

Carmel Area Wastewater District
Budgeted Operating Expenses-Treatment
Year-to-Date Variance, August 2021 - current month, Consolidated by
account, Department 6

	<i>2 Months Ended August 31, 2021</i>	<i>2 Months Ended August 31, 2021 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				
<i>Salaries and Payroll Taxes</i>	221,117.79	219,383.65	(1,734.14)	-0.8 %
TOTAL Salaries and Payroll Taxes	221,117.79	219,383.65	(1,734.14)	-0.8 %
Employee Benefits				
<i>Employee Benefits</i>	58,900.34	112,510.14	53,609.80	47.6 %
TOTAL Employee Benefits	58,900.34	112,510.14	53,609.80	47.6 %
Truck and Auto Expenses				
<i>Truck and Auto Expenses</i>	1,530.52	1,600.00	69.48	4.3 %
TOTAL Truck and Auto Expenses	1,530.52	1,600.00	69.48	4.3 %
General and Administrative				
<i>General and Administrative</i>	67,812.61	121,833.34	54,020.73	44.3 %
TOTAL General and Administrative	67,812.61	121,833.34	54,020.73	44.3 %
Office Expense				
<i>Office Expense</i>	1,207.69	4,383.32	3,175.63	72.4 %
TOTAL Office Expense	1,207.69	4,383.32	3,175.63	72.4 %
Operating Supplies				
<i>Operating Supplies</i>	46,501.28	62,898.68	16,397.40	26.1 %
TOTAL Operating Supplies	46,501.28	62,898.68	16,397.40	26.1 %
Contract Services				
<i>Contract Services</i>	81,373.69	144,733.32	63,359.63	43.8 %
TOTAL Contract Services	81,373.69	144,733.32	63,359.63	43.8 %
Repairs and Maintenance				
<i>Repairs and Maintenance</i>	6,778.63	11,908.32	5,129.69	43.1 %
TOTAL Repairs and Maintenance	6,778.63	11,908.32	5,129.69	43.1 %
Utilities				
<i>Utilities</i>	48,664.22	64,499.98	15,835.76	24.6 %
TOTAL Utilities	48,664.22	64,499.98	15,835.76	24.6 %
Travel and Meetings				
<i>Travel and Meetings</i>	0.00	2,571.66	2,571.66	100.0 %

Carmel Area Wastewater District
Budgeted Operating Expenses-Treatment
*Year-to-Date Variance, August 2021 - current month, Consolidated by
account, Department 6*

	<i>2 Months Ended August 31, 2021</i>	<i>2 Months Ended August 31, 2021 Budget</i>	<i>Variance Fav/<Unf></i>	<i>% Var</i>
TOTAL Travel and Meetings	0.00	2,571.66	2,571.66	100.0 %
Memberships and Subscriptions				
Memberships and Subscriptions	532.13	968.32	436.19	45.0 %
TOTAL Memberships and Subscriptions	532.13	968.32	436.19	45.0 %
Other Expenses				
Other Expense	0.00	333.34	333.34	100.0 %
TOTAL Other Expenses	0.00	333.34	333.34	100.0 %
TOTAL Operating Expenses	534,418.90	747,624.07	213,205.17	28.5 %
***** OPERATING INCOME (LOSS)	(534,418.90)	(747,624.07)	213,205.17	28.5 %
***** NET INCOME (LOSS)	(534,418.90)	(747,624.07)	213,205.17	28.5 %
***** NET INCOME (LOSS)	(534,418.90)	(747,624.07)	213,205.17	28.5 %

Carmel Area Wastewater District
Budgeted Operating Expenses-Admin.
Year-to-Date Variance, August 2021 - current month, Consolidated by
account, Department 7

	<i>2 Months Ended August 31, 2021</i>	<i>2 Months Ended August 31, 2021 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				
<i>Salaries and Payroll Taxes</i>	125,266.98	117,304.43	(7,962.55)	-6.8 %
TOTAL Salaries and Payroll Taxes	125,266.98	117,304.43	(7,962.55)	-6.8 %
Employee Benefits				
<i>Employee Benefits</i>	35,483.75	41,005.10	5,521.35	13.5 %
TOTAL Employee Benefits	35,483.75	41,005.10	5,521.35	13.5 %
Director's Expenses				
<i>Director's Expenses</i>	4,660.80	5,650.00	989.20	17.5 %
TOTAL Director's Expenses	4,660.80	5,650.00	989.20	17.5 %
Truck and Auto Expenses				
<i>Truck and Auto Expenses</i>	225.65	1,500.84	1,275.19	85.0 %
TOTAL Truck and Auto Expenses	225.65	1,500.84	1,275.19	85.0 %
General and Administrative				
<i>General and Administrative</i>	12,905.82	16,766.66	3,860.84	23.0 %
TOTAL General and Administrative	12,905.82	16,766.66	3,860.84	23.0 %
Office Expense				
<i>Office Expense</i>	1,301.64	2,833.34	1,531.70	54.1 %
TOTAL Office Expense	1,301.64	2,833.34	1,531.70	54.1 %
Operating Supplies				
<i>Operating Supplies</i>	202.66	300.00	97.34	32.4 %
TOTAL Operating Supplies	202.66	300.00	97.34	32.4 %
Contract Services				
<i>Contract Services</i>	19,766.47	34,338.46	14,571.99	42.4 %
TOTAL Contract Services	19,766.47	34,338.46	14,571.99	42.4 %
Repairs and Maintenance				
<i>Repairs and Maintenance</i>	714.05	833.34	119.29	14.3 %
TOTAL Repairs and Maintenance	714.05	833.34	119.29	14.3 %
Utilities				
<i>Utilities</i>	3,691.80	3,844.68	152.88	4.0 %

Carmel Area Wastewater District
Budgeted Operating Expenses-Admin.
Year-to-Date Variance, August 2021 - current month, Consolidated by
account, Department 7

	<i>2 Months Ended August 31, 2021</i>	<i>2 Months Ended August 31, 2021 Budget</i>	<i>Variance Fav/<Unf></i>	<i>% Var</i>
TOTAL Utilities	3,691.80	3,844.68	152.88	4.0 %
Travel and Meetings				
Travel and Meetings	1,627.69	2,783.34	1,155.65	41.5 %
TOTAL Travel and Meetings	1,627.69	2,783.34	1,155.65	41.5 %
Memberships and Subscriptions				
Memberships and Subscriptions	389.05	125.00	(264.05)	-211.2 %
TOTAL Memberships and Subscriptions	389.05	125.00	(264.05)	-211.2 %
Safety				
Safety	0.00	250.00	250.00	100.0 %
TOTAL Safety	0.00	250.00	250.00	100.0 %
Other Expenses				
Other Expense	60.00	333.34	273.34	82.0 %
TOTAL Other Expenses	60.00	333.34	273.34	82.0 %
TOTAL Operating Expenses	206,296.36	227,868.53	21,572.17	9.5 %
***** OPERATING INCOME (LOSS)	(206,296.36)	(227,868.53)	21,572.17	9.5 %
***** NET INCOME (LOSS)	(206,296.36)	(227,868.53)	21,572.17	9.5 %
***** NET INCOME (LOSS)	(206,296.36)	(227,868.53)	21,572.17	9.5 %

Carmel Area Wastewater District
Budgeted Operating Expenses-Reclamation
*Year-to-Date Variance, August 2021 - current month, Consolidated by
account, Department 8*

	<i>2 Months Ended August 31, 2021</i>	<i>2 Months Ended August 31, 2021 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	109,133.89	114,636.53	5,502.64	4.8 %
TOTAL Salaries and Payroll Taxes	109,133.89	114,636.53	5,502.64	4.8 %
General and Administrative				
General and Administrative	21,949.70	0.00	(21,949.70)	
TOTAL General and Administrative	21,949.70	0.00	(21,949.70)	
Operating Supplies				
Operating Supplies	554.94	1,416.66	861.72	60.8 %
TOTAL Operating Supplies	554.94	1,416.66	861.72	60.8 %
Contract Services				
Contract Services	162.12	0.00	(162.12)	
TOTAL Contract Services	162.12	0.00	(162.12)	
Repairs and Maintenance				
Repairs and Maintenance	158.11	716.66	558.55	77.9 %
TOTAL Repairs and Maintenance	158.11	716.66	558.55	77.9 %
Utilities				
Utilities	43.66	0.00	(43.66)	
TOTAL Utilities	43.66	0.00	(43.66)	
Safety				
Safety	0.00	250.00	250.00	100.0 %
TOTAL Safety	0.00	250.00	250.00	100.0 %
TOTAL Operating Expenses	132,002.42	117,019.85	(14,982.57)	-12.8 %
***** OPERATING INCOME (LOSS)	(132,002.42)	(117,019.85)	(14,982.57)	-12.8 %
***** NET INCOME (LOSS)	(132,002.42)	(117,019.85)	(14,982.57)	-12.8 %

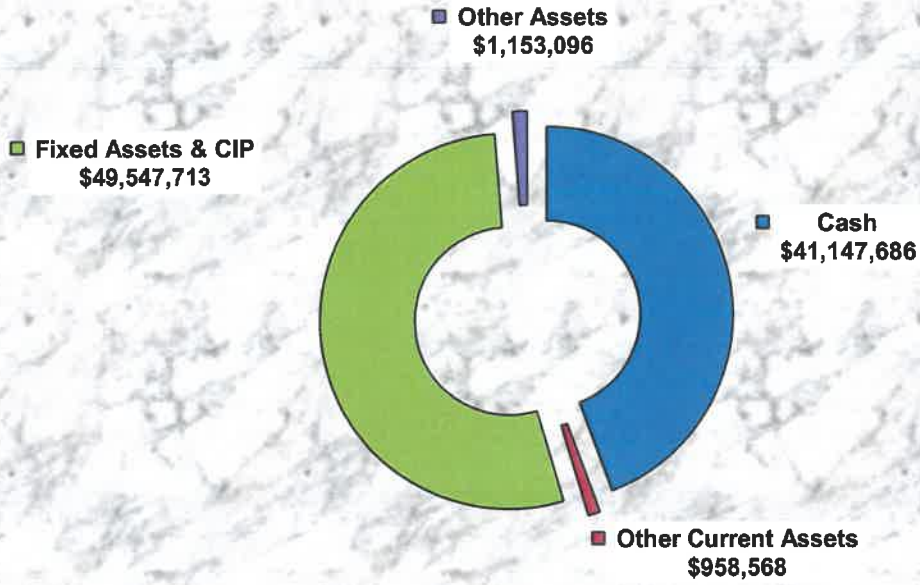
Carmel Area Wastewater District
Budgeted Income Stmt.-Waste to Energy
*Year-to-Date Variance, August 2021 - current month, Consolidated by
account, Department 9*

	<i>2 Months Ended August 31, 2021</i>	<i>2 Months Ended August 31, 2021 Budget</i>	<i>Variance Fav/<Unf></i>	<i>% Var</i>
Income				
Revenue	805.00	833.34	(28.34)	-3.4 %
TOTAL Income	<u>805.00</u>	<u>833.34</u>	<u>(28.34)</u>	-3.4 %
*****	<u>805.00</u>	<u>833.34</u>	<u>(28.34)</u>	-3.4 %
***** OPERATING INCOME	<u>805.00</u>	<u>833.34</u>	<u>(28.34)</u>	-3.4 %
Operating Expenses				
Salaries and Payroll Taxes				
Salaries and Payroll Taxes	447.32	179.50	(267.82)	-149.2 %
TOTAL Salaries and Payroll Taxes	<u>447.32</u>	<u>179.50</u>	<u>(267.82)</u>	-149.2 %
Operating Supplies				
Operating Supplies	0.00	833.34	833.34	100.0 %
TOTAL Operating Supplies	<u>0.00</u>	<u>833.34</u>	<u>833.34</u>	100.0 %
Repairs and Maintenance				
Repairs and Maintenance	840.00	500.00	(340.00)	-68.0 %
TOTAL Repairs and Maintenance	<u>840.00</u>	<u>500.00</u>	<u>(340.00)</u>	-68.0 %
TOTAL Operating Expenses	<u>1,287.32</u>	<u>1,512.84</u>	<u>225.52</u>	14.9 %
***** OPERATING INCOME (LOSS)	<u>(482.32)</u>	<u>(679.50)</u>	<u>197.18</u>	29.0 %
***** NET INCOME (LOSS)	<u>(482.32)</u>	<u>(679.50)</u>	<u>197.18</u>	29.0 %
***** NET INCOME (LOSS)	<u>(482.32)</u>	<u>(679.50)</u>	<u>197.18</u>	29.0 %

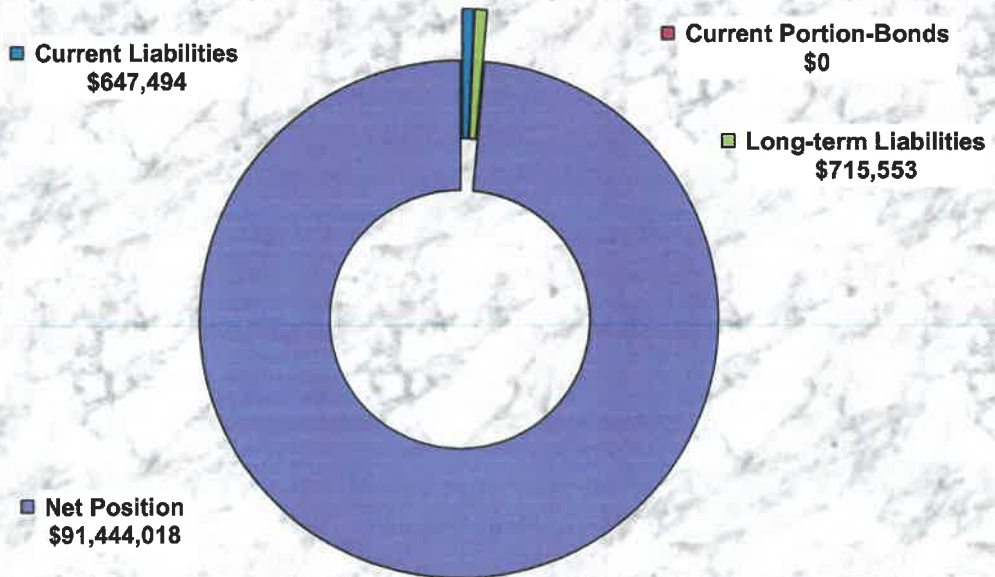
Carmel Area Wastewater District
Budgeted Income Stmt.-Brine Disposal
*Year-to-Date Variance, August 2021 - current month, Consolidated by
account, Department 10*

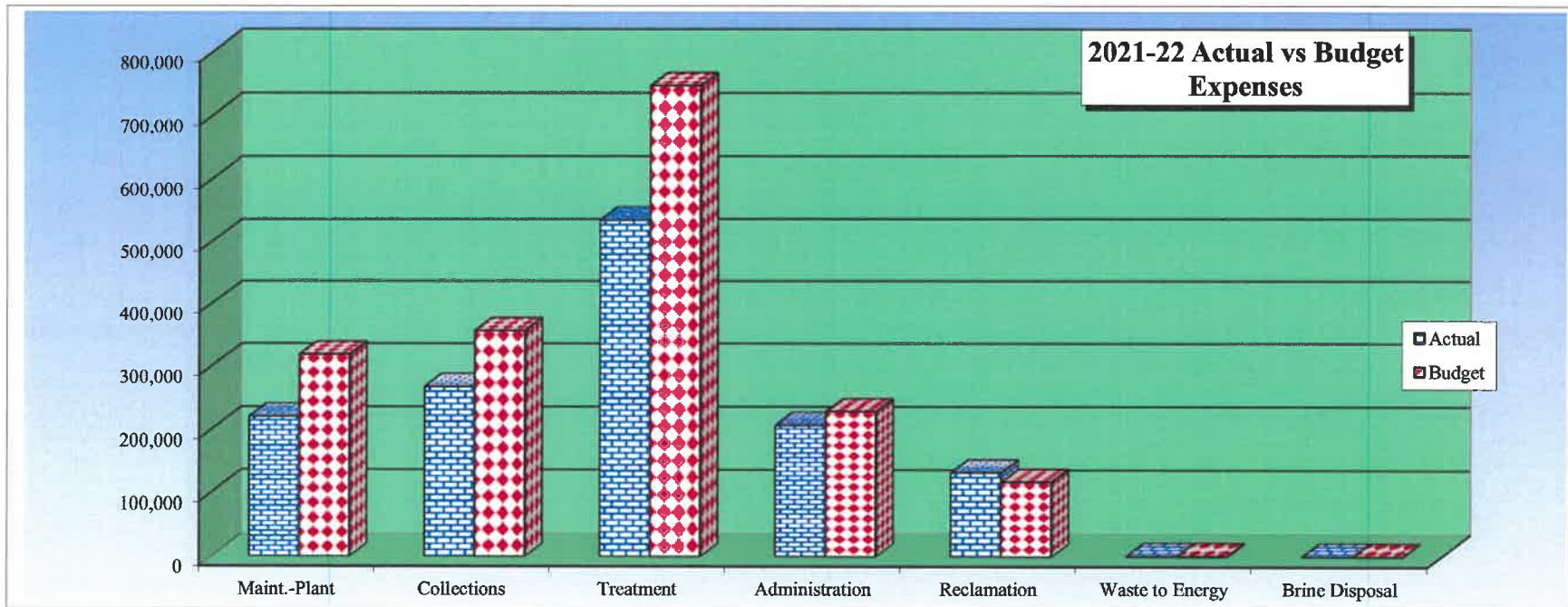
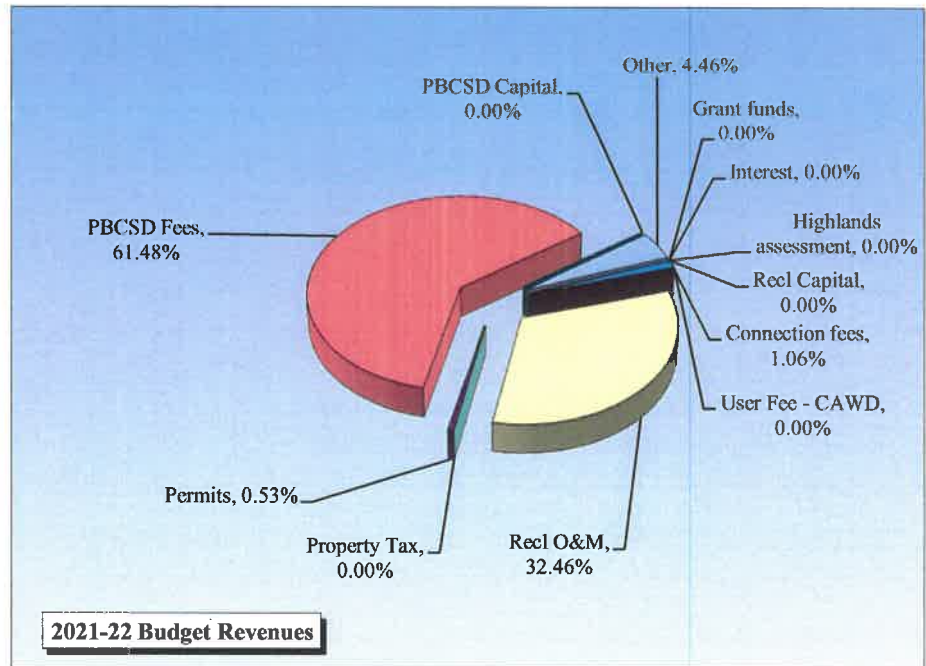
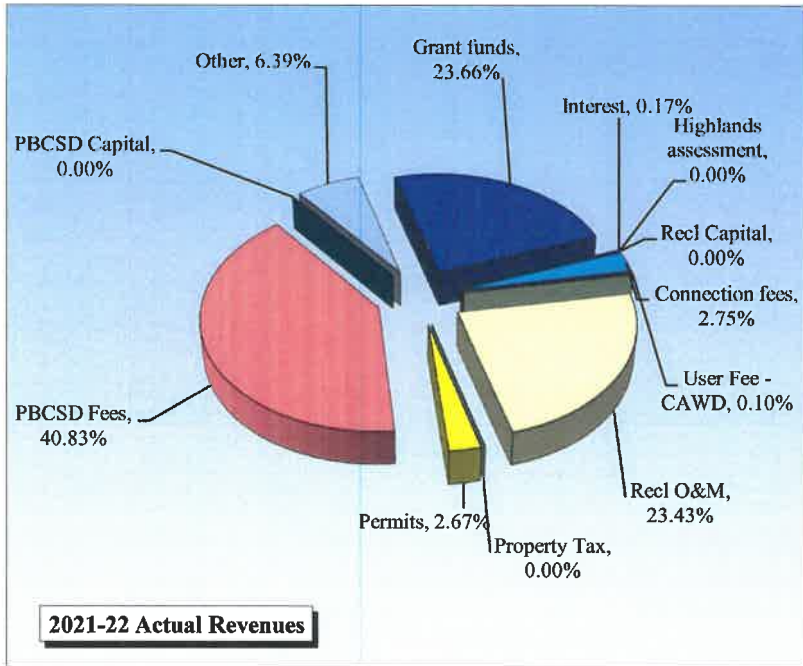
	<i>2 Months Ended August 31, 2021</i>	<i>2 Months Ended August 31, 2021 Budget</i>	<i>Variance Fav/<Unf></i>	<i>% Var</i>
Income				
Revenue	19,373.78	13,166.66	6,207.12	47.1 %
TOTAL Income	<u>19,373.78</u>	<u>13,166.66</u>	<u>6,207.12</u>	47.1 %
*****	<u>19,373.78</u>	<u>13,166.66</u>	<u>6,207.12</u>	47.1 %
***** OPERATING INCOME	<u>19,373.78</u>	<u>13,166.66</u>	<u>6,207.12</u>	47.1 %
Operating Expenses				
Salaries and Payroll Taxes				
Salaries and Payroll Taxes	152.84	269.16	116.32	43.2 %
TOTAL Salaries and Payroll Taxes	<u>152.84</u>	<u>269.16</u>	<u>116.32</u>	43.2 %
Office Expense				
Office Expense	0.00	4.16	4.16	100.0 %
TOTAL Office Expense	<u>0.00</u>	<u>4.16</u>	<u>4.16</u>	100.0 %
Operating Supplies				
Operating Supplies	0.00	200.00	200.00	100.0 %
TOTAL Operating Supplies	<u>0.00</u>	<u>200.00</u>	<u>200.00</u>	100.0 %
Repairs and Maintenance				
Repairs and Maintenance	820.31	416.68	(403.63)	-96.9 %
TOTAL Repairs and Maintenance	<u>820.31</u>	<u>416.68</u>	<u>(403.63)</u>	-96.9 %
TOTAL Operating Expenses	<u>973.15</u>	<u>890.00</u>	<u>(83.15)</u>	-9.3 %
***** OPERATING INCOME (LOSS)	<u>18,400.63</u>	<u>12,276.66</u>	<u>6,123.97</u>	49.9 %
***** NET INCOME (LOSS)	<u>18,400.63</u>	<u>12,276.66</u>	<u>6,123.97</u>	49.9 %
***** NET INCOME (LOSS)	<u>18,400.63</u>	<u>12,276.66</u>	<u>6,123.97</u>	49.9 %

Assets - August 31, 2021

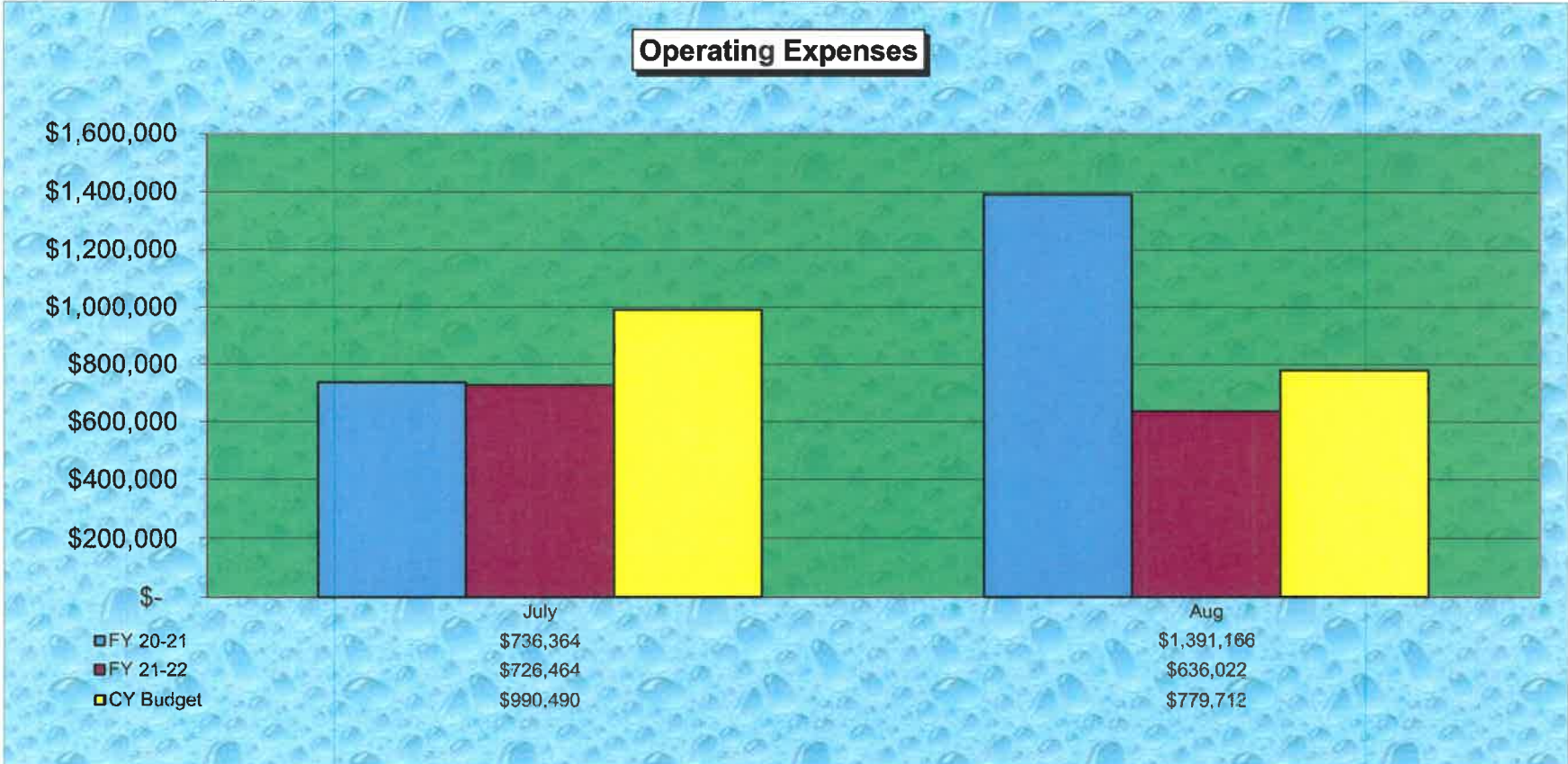


Liabilities - August 31, 2021





Operating Expenses



**Carmel Area Wastewater District
Capital Expenditures
2021-22**

	BEG BAL	AUG	CURRENT YTD	CUMULATIVE TOTAL	ANNUAL BUDGET	BUDGET SPENT
<u>CAPITAL PURCHASES</u>						
<u>Admin</u>		0	0	0	0	NA
		0	0	0	0	NA
<u>Collections</u>		0	0	0	0	NA
		0	0	0	0	NA
<u>Treatment</u>		0	0	0	0	NA
		0	0	0	0	NA
RECL share	0	0	0	0	0	NA
PBCSD share (1/3 of cost)	0	0	0	0	0	NA
<i>Total Capital Purchases 21-22</i>		0	0	0	0	NA

**Carmel Area Wastewater District
Capital Expenditures
2021-22**

	BEG BAL	AUG	CURRENT YTD	CUMULATIVE TOTAL	ANNUAL BUDGET	BUDGET SPENT
<u>CIP PROJECTS</u>						
<u>Administration</u>						
<u>Collections</u>						
Construction of new Gravity Sewer Line-Carmel Meadows	364,551	6,188	26,240	390,791	150,000	17.49%
Upper Rancho Canada Pipe Relocation	188,587	19,776	123,962	312,549	1,760,000	7.04%
Carmel Valley Manor Sewer-unbudgeted	180	0	0	180	0	NA
Scenic Rd Pipe Burst-Ocn/Bay	80,276	8,834	8,834	89,110	1,200,000	0.74%
Bay/Scenic Pump Station Rehab	6,727	11,576	16,161	22,887	250,000	6.46%
<u>Treatment</u>						
RECL share	0	0	0	0	0	NA
PBCSD share (1/3 of cost)	0	0	0	0	0	NA
<i>Total CIP Projects 21-22</i>	640,321	46,373	175,197	815,518	3,360,000	5.21%

**Carmel Area Wastewater District
Capital Expenditures
2021-22**

	BEG BAL	AUG	CURRENT YTD	CUMULATIVE TOTAL	ANNUAL BUDGET	BUDGET SPENT
<i>LONG TERM CIP PROJECTS</i>						
<u>Treatment</u>						
Microturbine/Gas Conditioning System	55,115	0	0	55,115	150,000	NA
Elec/Mech Rehab & Sludge Holding Tank Project (RECL 4%)	896,671	9,313	24,313	920,985	5,000,000	0.49%
WWTP Perimeter Tree Planting	2,897	2,038	2,038	4,935	60,000	3.40%
Critical Process Flood Adaptations (RECL 30%)	21,788	0	0	21,788	50,000	NA
Aeration Basin Improvements	9,030	8,302	8,302	17,332	0	NA
Ops Building Basement Bathroom	8,245	9,000	9,000	17,245	0	NA
RECL share	(39,135)	(373)	(973)	(40,108)	(200,000)	0.49%
PBCSD share (1/3 of cost)	(318,204)	(9,427)	(14,227)	(332,430)	(1,686,667)	0.84%
<i>Total Long Term CIP Projects 21-22</i>	636,407	18,853	28,453	664,860	3,373,333	0.84%
Total Capital (net of RECL and PBCSD)	1,276,728	65,226	203,650	1,480,378	6,733,333	3.02%

**Carmel Area Wastewater District
Variance Analysis
2021-22**

**YTD Actual/
YTD Budget
Variance**

Maintenance - Plant

General and Administrative	-97.20%	Timing of engineering.
Permits and Fees	-29.50%	Mo. Bay Air Resources District permits underbudgeted. Small dollar amounts.

Collections

Salaries and Payroll Taxes	-7.30%	Slightly underbudgeted.
Operating Supplies	-35.00%	Timing of paints and fluids and hand tools. Small dollar amounts.

Treatment

Administration

Salaries and Payroll Taxes	-6.80%	Slightly underbudgeted.
Memberships and Subscriptions	-211.20%	Timing of publications and reference works. Small dollar amounts.

Waste to Energy

Salaries and Payroll Taxes	-149.20%	Timing of salaries. Small dollar amounts.
Repairs and Maintenance	-68.00%	Timing of general repairs. Small dollar amounts.

Brine Disposal

Repairs and Maintenance	-96.90%	Timing of general repairs. Small dollar amounts.
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District Obligations:

1) 2004 Highlands Project Bond Proceeds \$3,057,165 - Balance \$585,000

**Carmel Area Wastewater District
2021-22 Resolutions Amending the Budget**

Resolution #	Description	Budgeted	Amendment	Spent To Date
	No budget amendments to date.	\$ -	\$ -	\$ -

Total To Date

\$ -	\$ -	\$ -
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STAFF REPORT



TO: Board of Directors
 FROM: Daryl Lauer, Collection Superintendent
 DATE: September 30, 2021
 SUBJECT: Monthly Report – August

RECOMMENDATION

Receive Report- Informational only; no action required.

Permits Issued

Sewer Lateral Permits issued in August	27
Total Fees	\$5,160.00

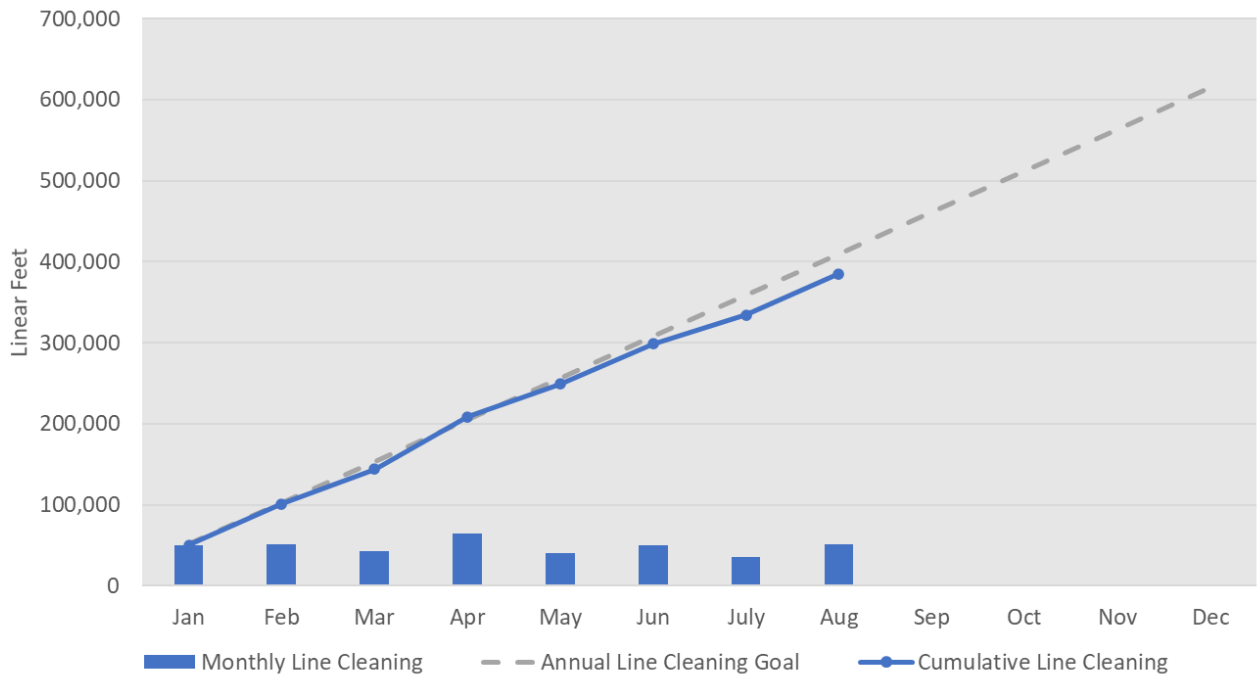
Maintenance

Attached is a map of the areas cleaned and Closed-Circuit Television (CCTV) inspected in the past three months. There were 50,824 feet of sewer lines cleaned, 11,913 feet of CCTV inspections and 20 manhole inspections were performed during the month of August.

Recent Line Cleaning Summary

Cleaning period	Footage Cleaned	Percentage Cleaned	Size of Pipe Cleaned
August	50,824 ft.	12.36%	6 – 15 inches
July	35,498 ft.	8.63%	6 – 27 inches
June	49,997 ft.	12.16%	6 – 12 inches

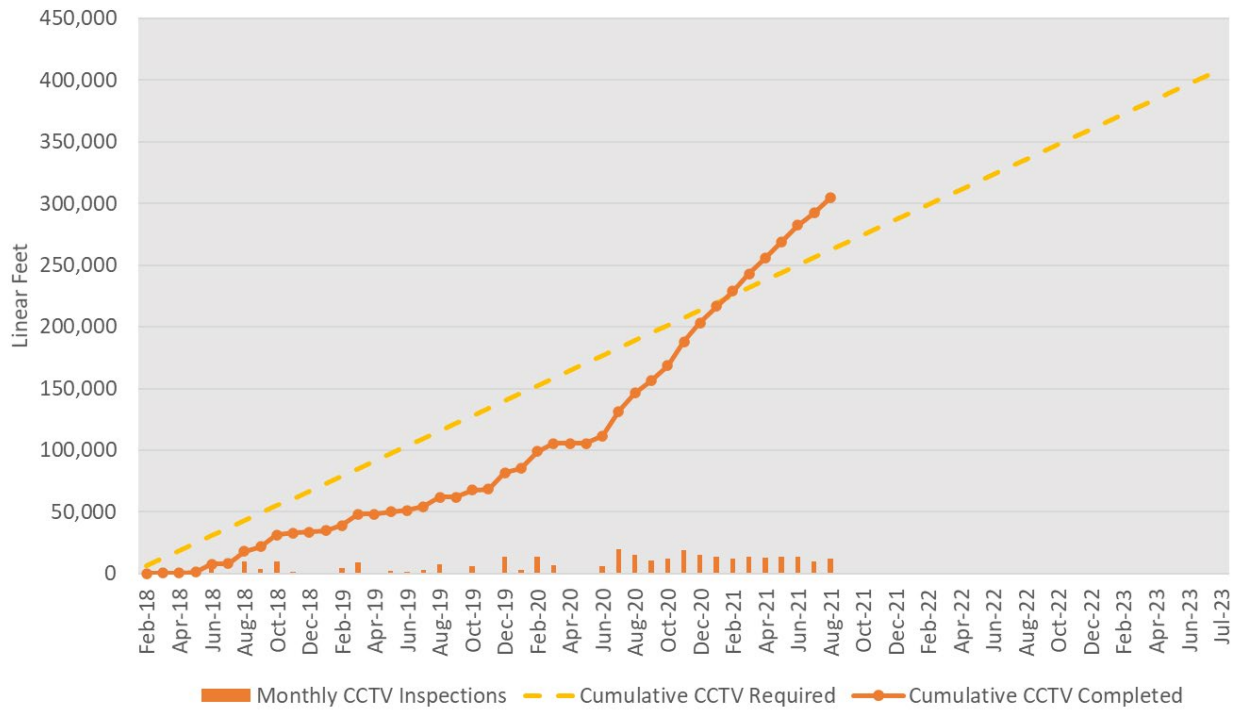
Annual Line Cleaning Graph



Line Cleaning Table

Total Target Amount (Linear Feet)	Cumulative Complete (Linear Feet)	Remaining (Linear Feet)
615,000 (in 2021)	385,096	229,904

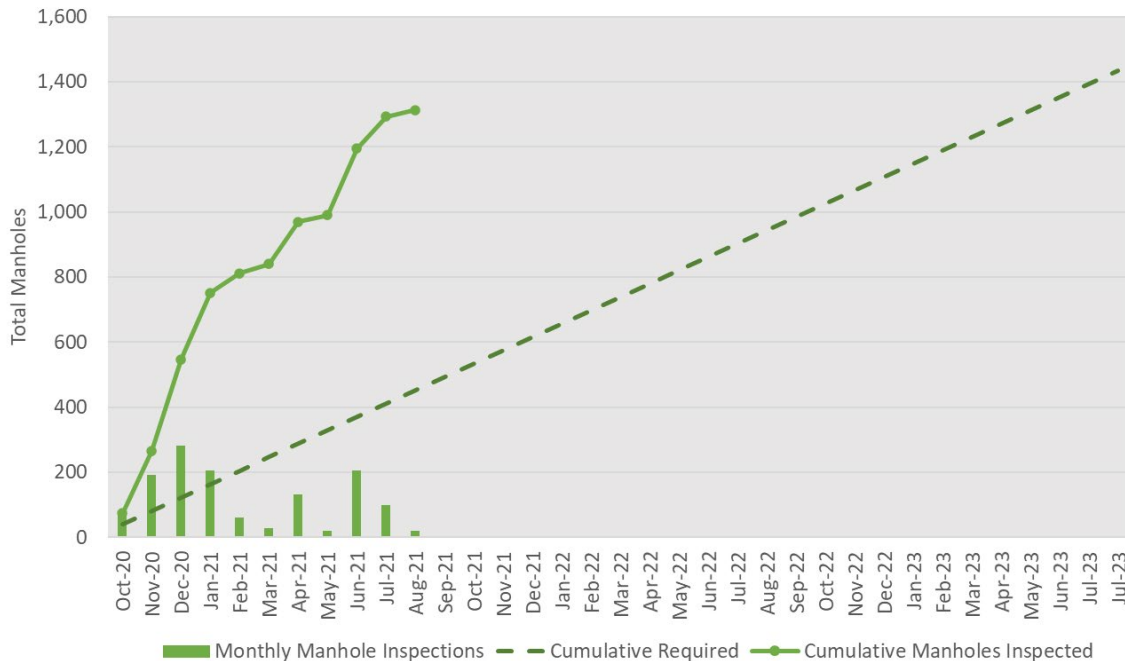
CCTV Progress Graph (River Watch Settlement Agreement Target)



CCTV Table

Total Required amount (Linear Feet)	Cumulative Complete (Linear Feet)	Remaining (Linear Feet)
408,672	304,369	104,303

Manhole Inspection Progress Graph (Riverwatch Settlement Agreement Target)



Manhole Inspection Table

Total Required Amount (Manholes)	Actual Complete (Manholes)	Remaining (Manholes)
1434	1313	121

Construction Activities

- Project #19-13, the Upper Rancho Canada Pipe Relocation project continued in August. Contractors replaced the sewer lines in the easement from Via Petra through Via Mallorca into Palo Colorado regional park using the pipe bursting method.

Staff Development

- Staff completed several online safety trainings and in person tail gate training.

General comments

- Staff continues to practice social distancing with other staff and contractors, driving to locations throughout the Carmel Area Wastewater District (District) in separate vehicles. Staff is educated on the best practices of Personal Protective Equipment (PPE) and personal hygiene. Staff continues daily cleaning and sanitizing buildings, equipment, and vehicles as part of their routine duties.

Service calls responded to by crew

Date	Time	Callout	Resolution
8/4/2021	12:30 PM	Lateral Overflow	Called by homeowner for a lateral overflow. Staff cleaned District main line and found no problems in District's line. Staff informed homeowner to call a plumber of their choice.
8/7/2021	7:48 AM	Pump Fail to Start	Called to 8 th & Scenic Pump Station for a fail to start on pump 1. Staff reset the breaker and monitored the station for a few cycles. No other problems found.
8/12/2021	5:38 PM	Lateral Overflow	Called by homeowner for a lateral overflow. Staff cleaned District main line and found no problems in District's line. Staff informed homeowner to call a plumber of their choice.
8/14/2021	7:21 AM	Power Fail	Power fail at Hacienda Pump Station. Staff monitored station until power was restored.
8/16/2021	11:31 AM	Odor Complaint	Called by homeowner for an odor complaint in their house. Staff cleaned the main line and informed owner to run water in all drains of their home to fill up the p-traps to prevent odors from entering home.
8/27/2021	9:19 AM	Lateral Overflow	Called by homeowner for a lateral overflow. Staff cleaned District main line and found no problems in District's line. Staff informed homeowner to call a plumber of their choice.

USA Location Requests – 79

Plumbing permit inspections – 25

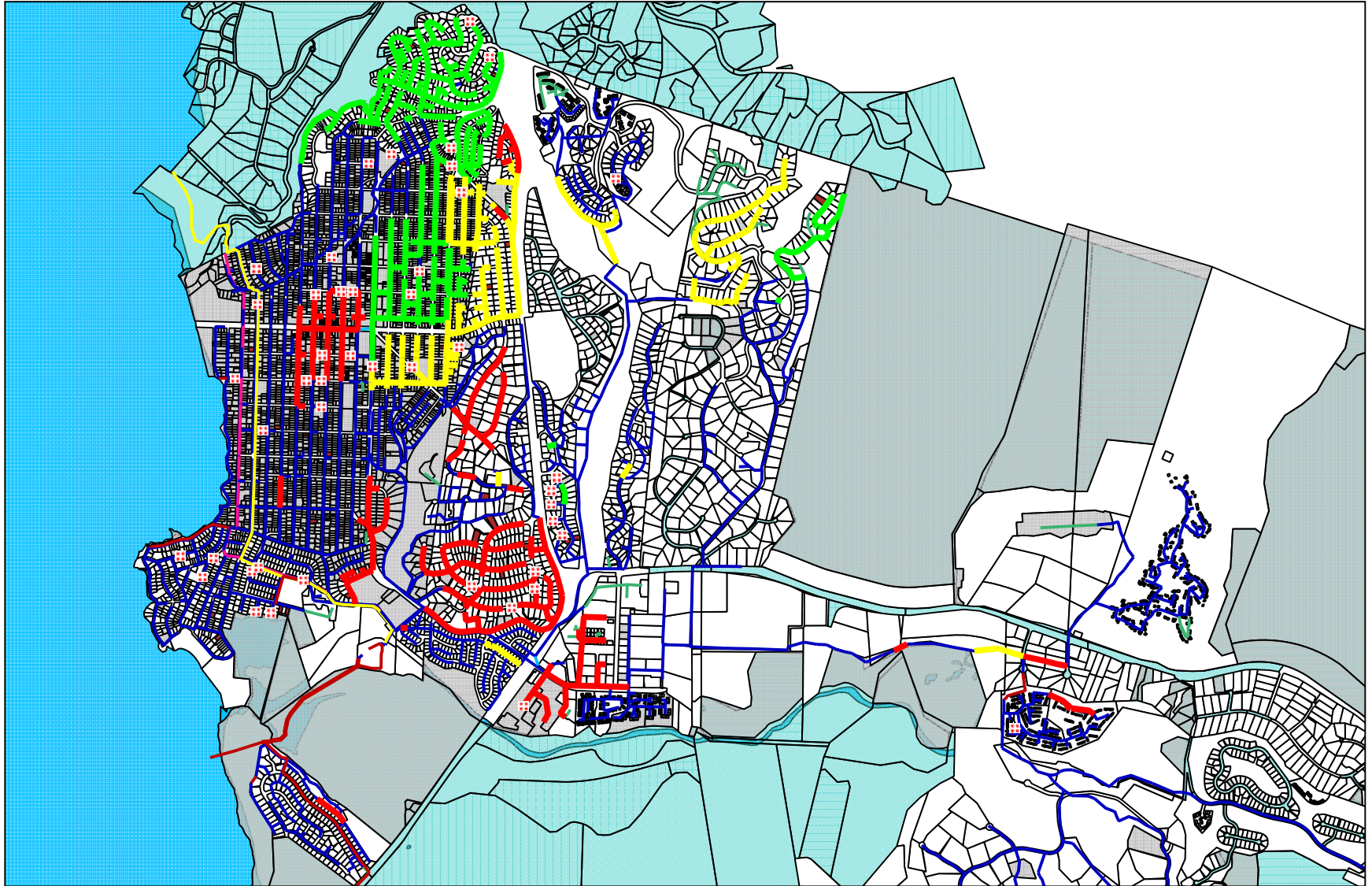
Private Sewer Lateral Compliance Certificates Issued – 24

FUNDING

N/A

August (Red) 50,824 feet
July (Yellow) 35,498 feet
June (Green) 49,997 feet

Monthly Cleaning Map



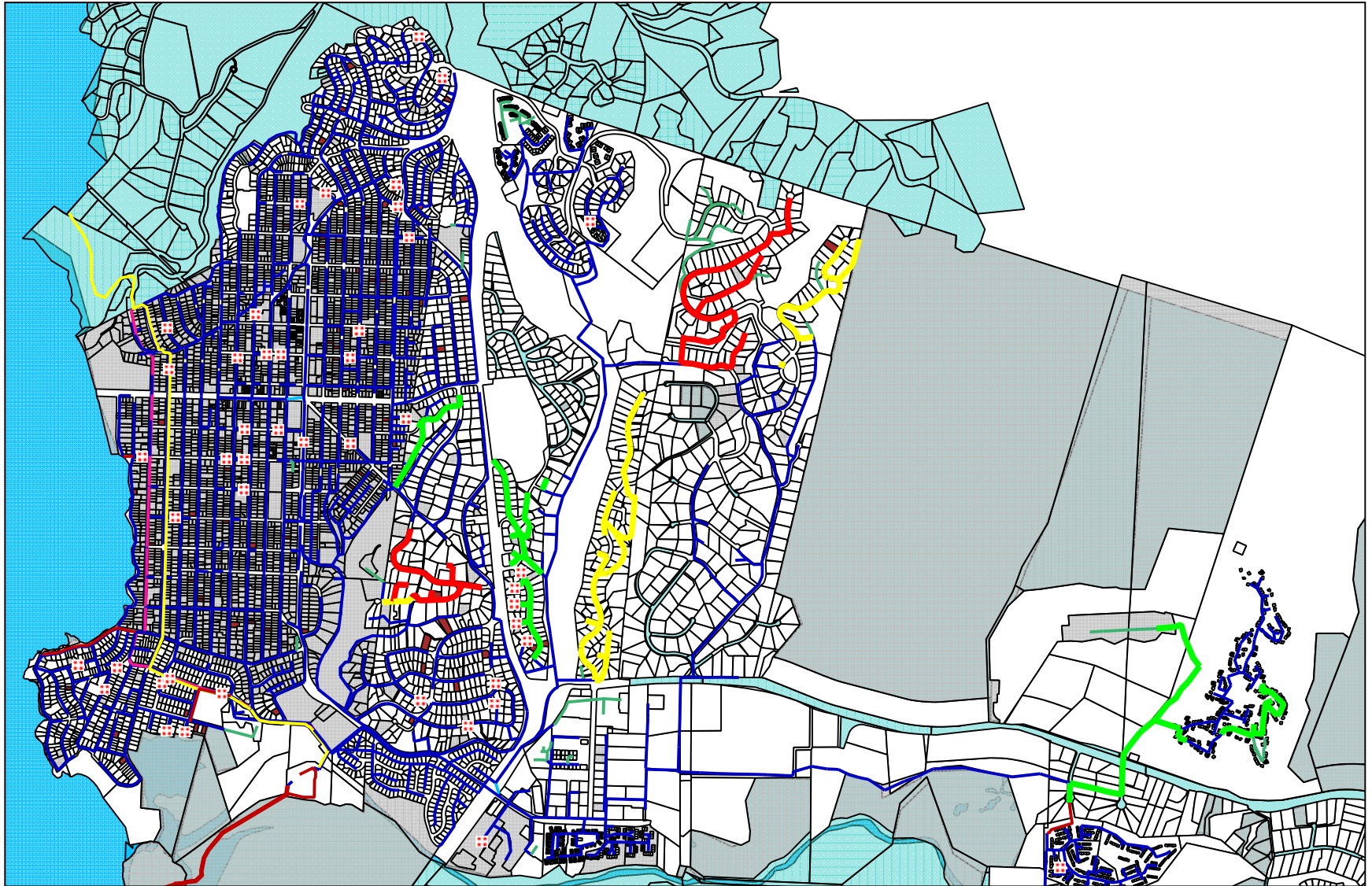
RedZone[®]
ROBOTICS

9/8/2021



August (Red) 11,913 feet
July (Yellow) 10,118 feet
June (Green) 13,408 feet

Monthly CCTV Map



RedZone[®]
ROBOTICS

9/8/2021



STAFF REPORT

To: Board of Directors

From: Mark Dias, Safety and
Regulatory Compliance Administrator

Date: September 30, 2021

Subject: Monthly Safety Report (for August 2021)



RECOMMENDATION

Receive Report- Informational only; no action required

DISCUSSION

Safety & Training

- **Aug 11- Phase II Construction Safety.** Kevin Young, Operations Supervisor, gave an initial overview of the safety procedures that will be implemented during the Phase II projects. He reviewed thirteen different topics including personal protective equipment, communication with contractors, traffic patterns, chemical deliveries and COVID-19 protocols. More specific training will be given as the actual work begins.
- **Aug 25- Insect bites, snakes and wild animal safety.** Daryl Lauer, Collections Superintendent, presented on precautions to avoid bites and attacks from insects, snakes and wild animals.
- **Aug 27- COVID policy as approved by Board on August 26.** Mark Dias, Safety and Compliance Administrator (S/C Admin Dias), gave a PowerPoint presentation explaining the additional protocols approved by Carmel Area Wastewater District's (CAWD) Board of Directors the previous day. Clear distinctions between protocols for vaccinated and unvaccinated employees were highlighted. The BioBot results were also presented which showed the highest levels of virus in CAWD's wastewater stream since the pandemic began. This made an impression on the participants. He also reviewed which state regulations still applied regardless of vaccination status.

Ongoing Safety Improvements

During August, Maintenance Superintendent Chris Foley and S/C Admin Dias continued to implement safety improvements and seek input from the operations crew and the Safety Committee. Activities during August included:

- **CAWD COVID-19 Policy Review.** S/C Admin Dias and Chris Foley, Maintenance Superintendent, reviewed the draft Board policy and provided several suggestions to improve implementation, provide clearer guidance for all employees and address additional scenarios. Recommendations for testing protocols were also provided.

Tours and Outreach

- **Tours.** Tours remain on hold. Further review of this policy is needed in light of the high infection rates and the impacts of the delta-variant on local schools. Also, any future tours will need to be carefully coordinated to avoid conflicts with Phase II construction activities.

Injuries; First Aid Incidents; Workers Compensation Claims

There were no first aid injuries or Workers Compensation claims in August. The most recent tracking matrix for 2021 is below.

	Work Related Injuries and Illnesses for 2021 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	1	0	0	0
First Aid (non-OSHA)	0	0	0	0	0

FUNDING

N/A- Informational item only

Wastewater Treatment Facility Operations Report

Report for: August 2021	HYDRAULIC LOADINGS					2021 YEAR-TO-DATE	
	Total Monthly, MG	Avg. Daily, MGD	Min Daily, MGD	Max Daily, MGD	% of Total	MG	acre-feet
CAWD Flow	25.206	0.813	0.753	0.857	68.910	198.39	608.56
PBCSD Flow	11.372	0.367	0.332	0.442	31.090	91.32	280.13
Total Plant Flow	36.578	1.180	1.085	1.299	100.00	289.71	888.69
Tertiary Flow	32.334	1.046	0.910	1.172	88.397	231.78	710.97
Ocean Discharge	4.435	0.143	0.123	0.169	12.125	63.07	193.46
Potable Water	0.000	0.000	0.000	0.000	0.000	0.000	0.000

TERTIARY PROCESS HISTORY

Total Annual Reclamation Production (2021)	231.78MG (710.98acre-ft.)
Total Lifetime Reclamation Production (94-21)	8.77 BG (26.92 K acre-ft.)
12 Month Rolling Total Reclamation Production	346.24 MG (1062.61 acre-ft.)

ELECTRICAL COSTS

Monthly Totals	Aug'21 kWh	Price per kWh	Aug'21	Jul'21	Jun'21	May'21
Secondary	86,137.00	\$ 0.233	\$ 20,112.11	\$ 20,354.14	\$ 19,997.41	\$ 15,341.63
Blowers	50,755.36	\$ 0.215	\$ 10,927.89	\$ 11,790.88	\$ 11,369.49	\$ 9,129.95
CAWD Total	136,892.36		\$ 31,040.00	\$ 32,145.02	\$ 31,366.90	\$ 24,471.58
Tertiary	98,447.96	\$ 0.229	\$ 22,551.18	\$ 23,051.78	\$ 20,558.60	\$ 14,919.41
MF/RO	94,435.00	\$ 0.238	\$ 22,485.62	\$ 24,160.27	\$ 22,509.89	\$ 20,237.92
Reclaim Total	192,882.96		\$ 45,036.80	\$ 47,212.05	\$ 43,068.49	\$ 35,157.33
Adjusted Monthly Totals (1)	CAWD Total		\$ 19,083.39	Reclamation Total		\$ 56,993.41

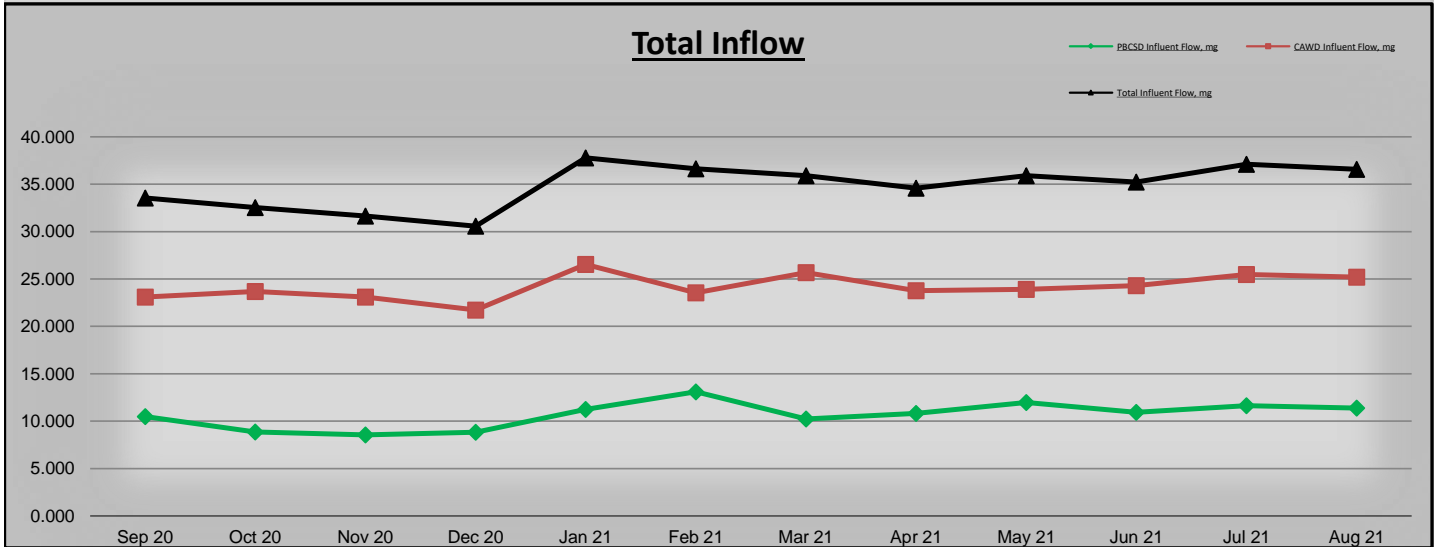
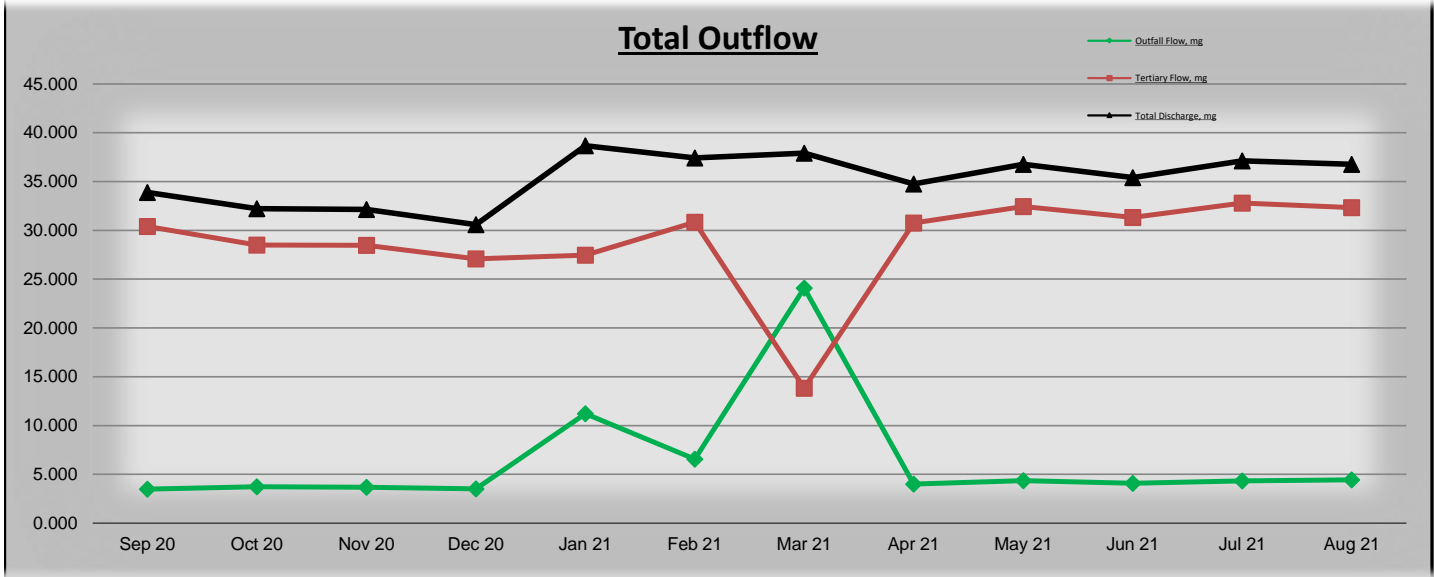
kW-h Per Acre Foot

	2020				2021			
	1 QTR	2 QTR	3 QTR	4 QTR	1 QTR	2 QTR	3 QTR	4 QTR
CAWD	2064.85	1445.00	1434.66	1583.65	1453.87	1327.64	N/A	N/A
Reclamation	1920.96	1852.00	1878.67	1943.44	1984.84	1939.79	N/A	N/A

MICROTURBINE SUMMARY

Month	Aug '21 kW-h	Jul '21	Jun '21	May '21	Accumulated Totals
Production, kW-h	32,481	29,434	31,493	31,196	1,134,193.00

(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.



Wastewater Treatment Facility Operations Report

Report for: July 2021	HYDRAULIC LOADINGS					2021 YEAR-TO-DATE	
	Total Monthly, MG	Avg. Daily, MGD	Min Daily, MGD	Max Daily, MGD	% of Total	MG	acre-feet
CAWD Flow	25.481	0.822	0.793	0.857	68.650	173.18	531.24
PBCSD Flow	11.636	0.375	0.352	0.420	31.350	79.95	245.25
Total Plant Flow	37.117	1.197	1.145	1.277	100.00	253.13	776.48
Tertiary Flow	32.799	1.058	0.879	1.234	88.367	199.44	611.79
Ocean Discharge	4.319	0.135	0.014	0.160	11.636	58.63	179.86
Potable Water	0.000	0.000	0.000	0.000	0.000	0.000	0.000

TERTIARY PROCESS HISTORY

Total Annual Reclamation Production (2021)	199.45MG (611.80acre-ft.)
Total Lifetime Reclamation Production (94-21)	8.74 BG (26.82 K acre-ft.)
12 Month Rolling Total Reclamation Production	346.00 MG (1061.89 acre-ft.)

ELECTRICAL COSTS

Monthly Totals	Jul'21 kWh	Price per kWh	Jul'21	Jun'21	May'21	Apr'21
Secondary	90,396.00	\$ 0.225	\$ 20,354.14	\$ 19,997.41	\$ 15,341.63	\$ 15,009.94
Blowers	56,930.40	\$ 0.207	\$ 11,790.88	\$ 11,369.49	\$ 9,129.95	\$ 8,495.11
CAWD Total	147,326.40		\$ 32,145.02	\$ 31,366.90	\$ 24,471.58	\$ 23,505.05
Tertiary	102,596.24	\$ 0.225	\$ 23,051.78	\$ 20,558.60	\$ 14,919.41	\$ 15,428.62
MF/RO	102,740.00	\$ 0.235	\$ 24,160.27	\$ 22,509.89	\$ 20,237.92	\$ 19,675.11
Reclaim Total	205,336.24		\$ 47,212.05	\$ 43,068.49	\$ 35,157.33	\$ 35,103.73
Adjusted Monthly Totals (1)	CAWD Total		\$ 19,709.05	Reclamation Total		\$ 59,648.02

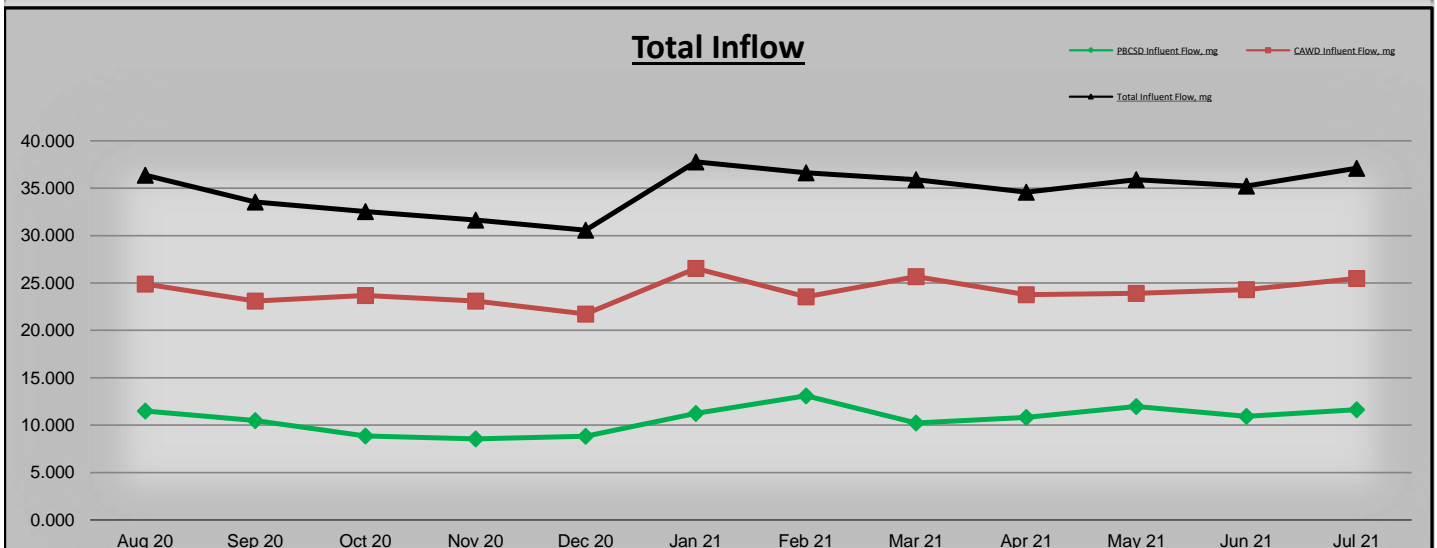
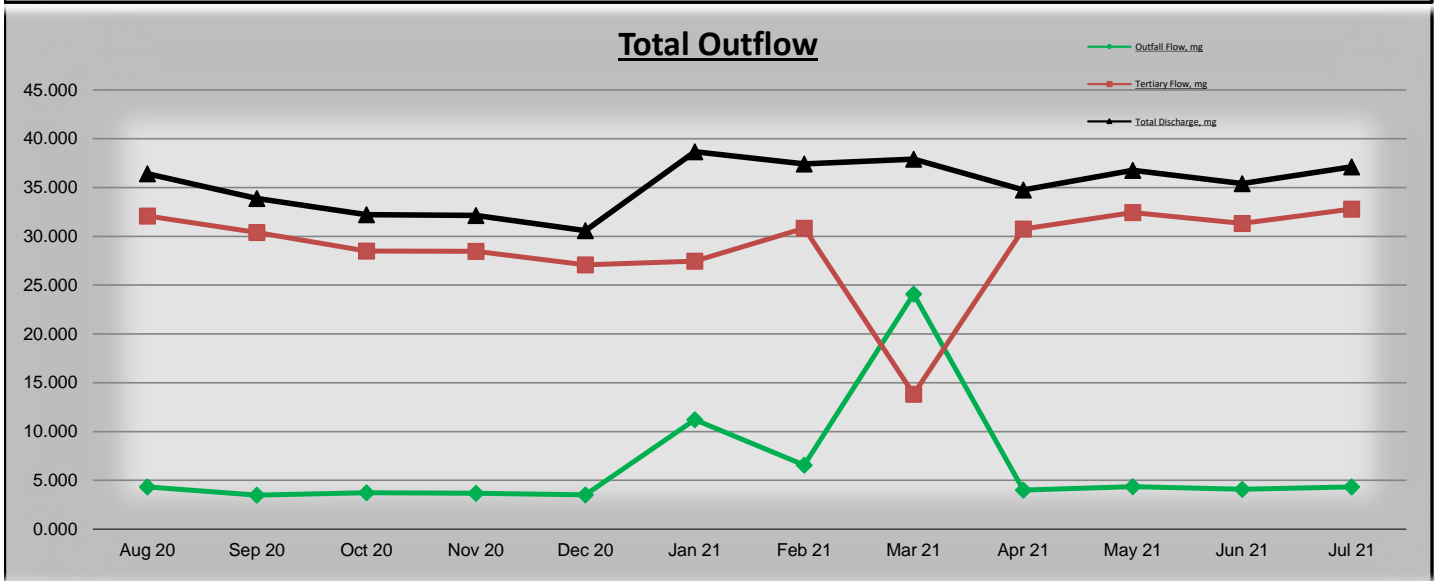
kW-h Per Acre Foot

	2020				2021			
	1 QTR	2 QTR	3 QTR	4 QTR	1 QTR	2 QTR	3 QTR	4 QTR
CAWD	2064.85	1445.00	1434.66	1583.65	1453.87	1327.64	N/A	N/A
Reclamation	1920.96	1852.00	1878.67	1943.44	1984.84	1939.79	N/A	N/A

MICROTURBINE SUMMARY

Month	Jul '21 kW-h	Jun '21	May '21	Apr '21	Accumulated Totals
Production, kW-h	29,434	31,493	31,196	31,694	1,101,712.00

(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.



Wastewater Treatment Facility Operations Report

Report for: June 2021	HYDRAULIC LOADINGS					2021 YEAR-TO-DATE	
	Total Monthly, MG	Avg. Daily, MGD	Min Daily, MGD	Max Daily, MGD	% of Total	MG	acre-feet
CAWD Flow	24.294	0.810	0.714	0.857	68.935	147.70	453.07
PBCSD Flow	10.948	0.365	0.340	0.394	31.065	68.32	209.56
Total Plant Flow	35.242	1.175	1.054	1.251	100.00	216.02	662.63
Tertiary Flow	31.322	1.044	0.880	1.133	88.877	166.64	511.18
Ocean Discharge	4.088	0.136	0.107	0.157	11.600	54.31	166.61
Potable Water	0.000	0.000	0.000	0.000	0.000	0.000	0.000

TERTIARY PROCESS HISTORY

Total Annual Reclamation Production (2021)	166.65MG (511.19acre-ft.)
Total Lifetime Reclamation Production (94-21)	8.71 BG (26.72 K acre-ft.)
12 Month Rolling Total Reclamation Production	345.84 MG (1061.37 acre-ft.)

ELECTRICAL COSTS

Monthly Totals	Jun'21 kWh	Price per kWh	Jun '21	May'21	Apr'21	Mar'21
Secondary	85,103.00	\$ 0.235	\$ 19,997.41	\$ 15,341.63	\$ 15,009.94	\$ 16,198.02
Blowers	52,166.96	\$ 0.218	\$ 11,369.49	\$ 9,129.95	\$ 8,495.11	\$ 8,318.61
CAWD Total	137,269.96		\$ 31,366.90	\$ 24,471.58	\$ 23,505.05	\$ 24,516.63
Tertiary	96,550.40	\$ 0.213	\$ 20,558.60	\$ 14,919.41	\$ 15,428.62	\$ 9,180.31
MF/RO	94,512.00	\$ 0.238	\$ 22,509.89	\$ 20,237.92	\$ 19,675.11	\$ 8,129.10
Reclaim Total	191,062.40		\$ 43,068.49	\$ 35,157.33	\$ 35,103.73	\$ 17,309.41
Adjusted Monthly Totals (1)	CAWD Total	\$	19,083.15	Reclamation Total	\$	55,352.24

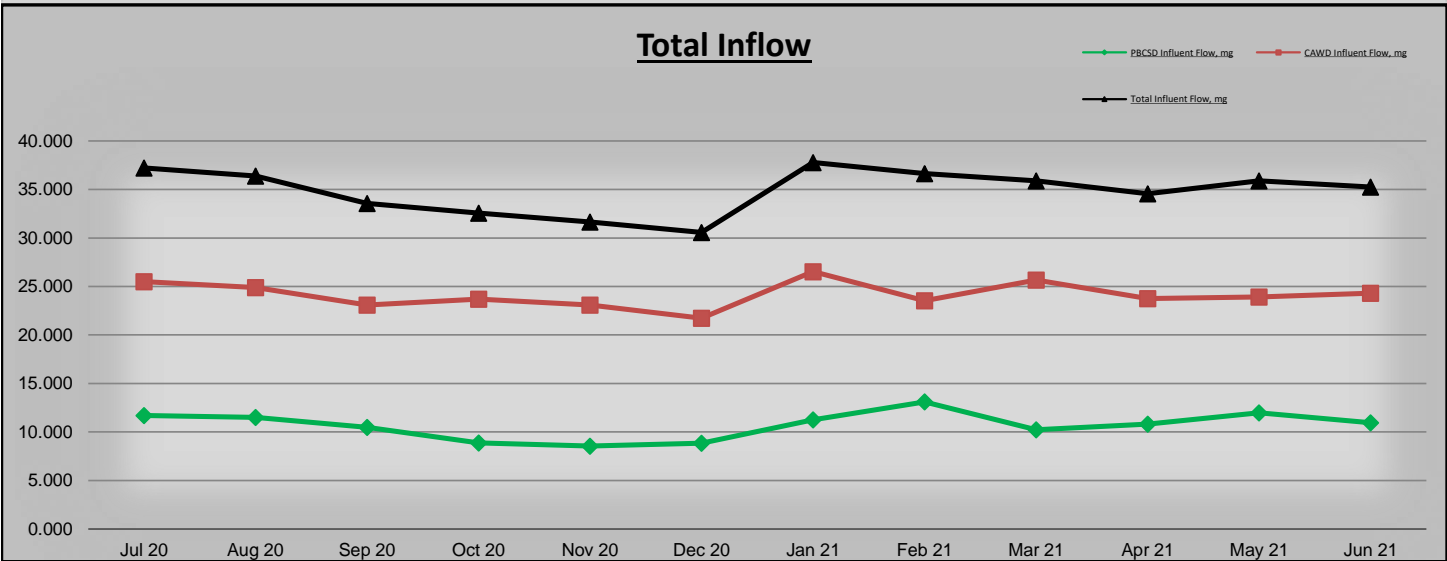
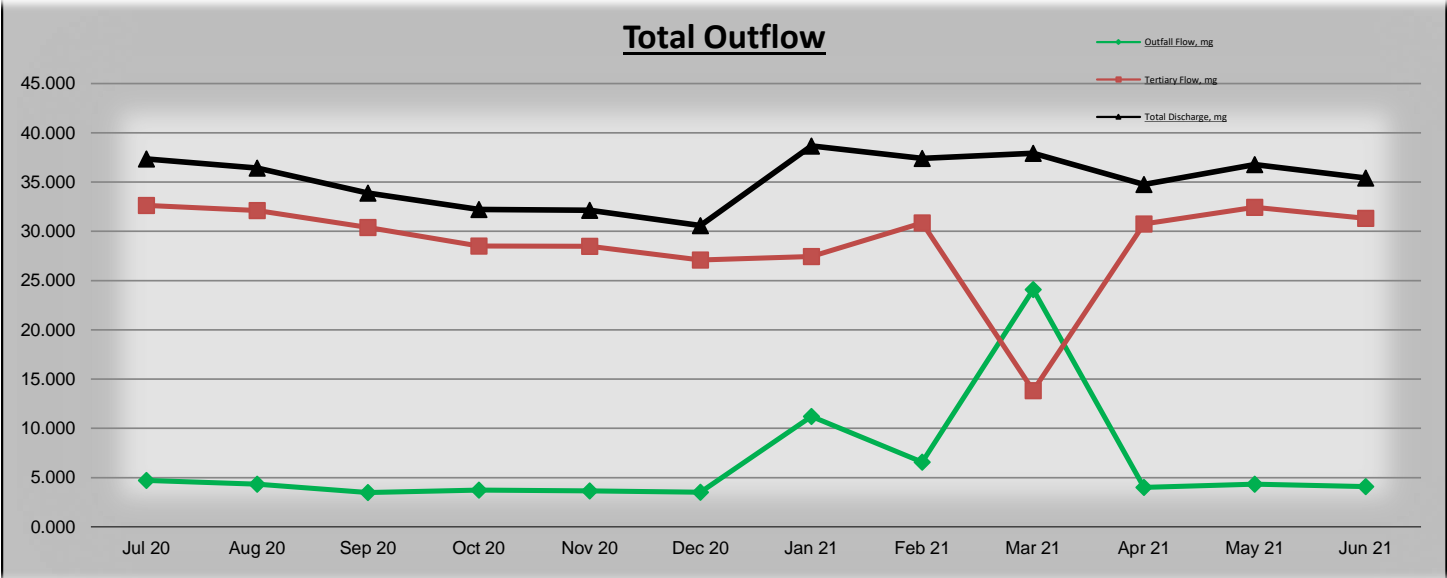
kW-h Per Acre Foot

	2020				2021			
	1 QTR	2 QTR	3 QTR	4 QTR	1 QTR	2 QTR	3 QTR	4 QTR
CAWD	2064.85	1445.00	1434.66	1583.65	1453.87	1327.64	N/A	N/A
Reclamation	1920.96	1852.00	1878.67	1943.44	1984.84	1939.79	N/A	N/A

MICROTURBINE SUMMARY

Month	Jun '21 kW-h	May '21	Apr '21	Mar '21	Accumulated Totals
Production, kW-h	31,493	31,196	31,694	29,055	1,072,278.00

(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.



STAFF REPORT

To: Board of Directors

From: Ray De Ocampo - Laboratory/Environmental Compliance Supervisor

Date: September 30, 2021

Subject: Monthly Report – August 2021



RECOMMENDATION

Receive Report - Informational only; No action required.

DISCUSSION

LABORATORY REPORT

- Biobot Analytics continues to provide COVID-19 analysis for Carmel Area Wastewater District (CAWD) composite samples of the Influent Pump Station. Biobot samples are available upon request and can also be viewed on the CAWD website: https://www.cawd.org/biobot-analytics-weekly-reports-of-concentration-levels-sars-cov-2#/body_file-e72defec-6488-4185-b5f3-ab45b2fe531e.
- Per-Polyfluoroalkyl Substances (PFAS) samples were collected on August 2, 2021, per the State Order WQ-2020-0015-DWQ. The samples were picked up on August 13, 2021 by Central Coastal Long-Term Environmental Assessment Network (CCLEAN) staff. This was the fourth and final quarter of the sampling sequence. The samples will be sent to the contract laboratory, SGS Axys Laboratory and the results will be provided by Applied Marine Sciences when the analysis is completed.
- Lab staff collected the National Pollutant Discharge Elimination System (NPDES) Semi-Annual Final Effluent samples on August 3, 2021 and sent to Fruit Growers Laboratory (FGL) for analysis. Data results can be provided when report has been completed.

ENVIRONMENTAL COMPLIANCE REPORT

- On August 6, 2021, staff performed a dye test on the grease trap at Dutch Door Donuts. Dutch Door Donuts has been preparing to open soon and the dye test was performed to confirm that the plumbing drains to it. The District Engineer has been working with the contractor and owner to pay the last remaining connection fees.

- Staff has been working on creating a master list of the businesses in CAWD's District area to update the Source Control Program records.
- Staff was contacted by Highlands Inn Assistant Engineer, Mr. Okeefe, indicating they received approval to replace the old grease interceptor. CAWD staff required that a site plan and grease interceptor specifications be sent to the District Engineer for review and comment.

Restaurant Inspection Table

Restaurant	Compliant	Reason for Non-Compliance	Comments
Casanova	Yes		
Highlands Inn	Yes		
Carmel Mission Inn	Yes		
Enzo	Yes		

Grocery Store/Delicatessen Inspection Table

Grocery Store/Delicatessen	Compliant	Reason for Non-Compliance	Comments
None			

Restaurant Compliance Table

% Compliance	Maintenance	Mechanical
May 2021	94	100
June 2021	100	100
Aug 2021	100	100

FUNDING – N/A – Informational item only

Project Number	GL	Task Name	Manager	Start	Finish	Current FY Budget	Cumulative Budget	Status	2020		2021		2022	
									H1	H2	H1	H2	H1	H2
		Projects Implementation Plan Schedule												
		Treatment Plant Projects												
18-01	1620.000	Elec/Mech Rehab and Sludge Holding Tank Replacement Project	Treanor	4/30/18	7/25/23	\$5,000,000	\$10,946,671	Contractor Mobilization	Mech Rehab and Sludge Holding Tank Replacement Project					
18-05	5858.004	PLC/SCADA Programming	Foley	10/8/18	7/30/21	\$200,000	\$473,297	SCADA Screens 85% Complete	SCADA Programming					
18-11	1611.000	Microturbine Integration Project	Treanor/Foley	6/4/19	6/30/22	\$150,000	\$205,114	Shutting Down for Safety During Project 18-01 Work	Microturbine Integration Project					
19-01	1630.000	Onsite Flood Mitigations	Waggoner	7/1/19	6/30/22	\$0	\$21,788	Converting to O&M Procedures	Onsite Flood Mitigations					
18-28	1626.000	Perimeter Tree Plan and Implementation	Treanor	7/1/19	6/30/26	\$60,000	\$237,897	Pending Committee Meeting	Perimeter Tree Plan and Implementation					
21-01	5982.004	WWTP Eucalyptus Pruning	Treanor	7/1/20	2/1/22	\$130,000	\$150,376	Bid Phase	WWTP Eucalyptus Pruning					
19-21	1993.000	Carmel River FREE Mitigation	Treanor	6/1/20	11/30/22	\$0	\$0	Design/Permitting/Developing Funding Agreement	Carmel River FREE Mitigation					
21-03		Cathodic Protection Testing	Treanor	7/1/20	6/30/22	\$30,000	\$30,000	Pre-Design of Upgrades	Cathodic Protection Testing					
19-19	1634.000	Aeration Basin Improvements	Waggoner	7/1/20	6/30/21	\$0	\$9,030	Parts in Stock - Installation On Hold	Aeration Basin Improvements					
		Perimeter Fencing	Dias	7/1/21	6/29/22	\$200,000	\$200,000	Inactive	Perimeter Fencing					
		Treatment Plant Studies & O&M Manuals	Treanor	5/1/20	3/1/22				Treatment Plant Studies & O&M Manuals					
	5500.006	Coastal Hazards Monitoring Plan	Treanor	5/1/20	4/30/21	\$75,000	\$1,050,000	Draft Submitted to Coastal Commission	Coastal Hazards Monitoring Plan					
	5500.006	Long Term SLR Planning	Treanor	5/3/21	3/1/22	\$100,000	\$1,400,000	Inactive	Long Term SLR Planning					
		Reclamation Projects												
18-26	14777	Sulfuric Acid and Citric Acid Storage and Feed Systems	Treanor	1/1/19	7/29/22	\$370,000	\$438,743	Contractor Mobilization	Sulfuric Acid and Citric Acid Storage and Feed Systems					
		SCADA Migration	Foley	7/1/21	6/30/22	\$140,000	\$140,000	Request for Proposal	SCADA Migration					
		Reclamation Studies	Treanor	7/2/18	6/30/22				Reclamation Studies					
	69200	Trussell MF/RO Performance Review	Treanor	7/2/18	6/30/22	\$32,000	\$115,000	In Study Phase	Trussell MF/RO Performance Review					
	69200	Trussell Brine Dilution Study	Treanor	7/1/21	6/30/22	\$31,000	\$115,000	In Study Phase	Trussell Brine Dilution Study					
		Reclamation 15-Year Asset Management Assessment	Treanor	7/1/21	6/1/22	\$50,000	\$50,000	Inactive	Reclamation 15-Year Asset Management Assessment					
		Collections Projects												
19-02		Pretreatment Ordinance	Lather	11/15/19	9/30/21	\$0	\$0	Complete	Pretreatment Ordinance					
19-03	1586.000	Carmel Meadows Sewer Replacement	Lather	8/1/19	1/19/23	\$150,000	\$2,014,551	In Design / CEQA	Carmel Meadows Sewer Replacement					
19-13	1625.000	Upper Rancho Canada Pipe Relocation	Lather	7/1/19	10/29/21	\$1,760,000	\$1,912,475	In Construction	Upper Rancho Canada Pipe Relocation					
19-08	1632.000	Carmel Valley Manor Pipeline and Pump Station	Lather	7/3/18	12/10/21	\$0	\$0	Re-Design In Progress	Carmel Valley Manor Pipeline and Pump Station					
20-07	1636.000	Bay/Scenic Pump Station Rehabilitation	Lather	12/31/20	6/30/23	\$250,000	\$756,726	In Design	Bay/Scenic Pump Station Rehabilitation					
20-08	1635.000	Scenic Rd Pipe Bursting - Ocean to Bay	Lather	2/5/21	6/30/22	\$1,200,000	\$1,280,276	In Design	Scenic Rd Pipe Bursting - Ocean to Bay					
21-02	6130.005	2021 Pipeline Spot Repairs	Lather	7/1/21	7/1/22	\$150,000	\$150,000	Contracting	2021 Pipeline Spot Repairs					

Project Number	GL	Task Name	Manager	Start	Finish	Current FY Budget	Cumulative Budget	Status	2020		2021		2022	
									H1	H2	H1	H2	H1	H2
21-06	6140.005	Manhole Rehabilitation	Lather	7/1/21	7/1/22	\$150,000	\$150,000	Design In House						
21-05	1637.000	Pescadero Creek Area Pipe Relocation	Lather	7/1/21	6/30/23	\$450,000	\$1,700,000	Design Contract in Progress						
21-07		Mission & San Carlos Sewer Rehabilitation from Ocean to 2nd	Lather	7/1/21	6/30/23	\$250,000	\$962,500	Consultant Request For Proposal in September 2021						
20-05		River Watch Agreement	Lather	2/21/20	2/21/24	\$0	\$0	Work In Progress						
20-06		Collections 20-Year CIP	Lather	7/1/20	7/1/40	\$0	\$29,489,616	Work In Progress						
		Assessment Districts/Annexations	Lather	8/2/18	3/1/23									
19-09	5500.005	2020 Sphere of Influence Amendment and Annexation Proposal	Lather	3/15/19	7/30/21	\$0	\$50,000	Pending Recording By CA State						
18-21	1631.000	Corona Road Assessment District	Lather	8/2/18	12/2/22	\$0	\$0	In Preliminary Design						
19-04	2510.000	Carmel Highlands Sewer Collection System Expansion – Yankee Point and Otter Cove	Lather	3/11/21	3/1/23	\$0	\$0	In Study Phase						



Photo: Existing Headworks Motor Control Center to Be Replaced in Project

Project Number:	18-01	
Project Name:	Wastewater Treatment Plant (WWTP) – Elec/Mech Rehab & Sludge Holding Tank Replacement Project	
Project Location:	Wastewater Treatment Plant	
Project Manager:	Trenor	
Status:	Contractor Mobilization	
Project Description:	This Project is a multi-area project at the WWTP aimed at mitigating risk of failure in the Influent Pump Station, Headworks, 3W/Chlorine Analyzer Building, Effluent Building and Sludge Storage Tank. Most of the work involves replacing aged electrical and mechanical equipment in existing buildings.	
Department:	Treatment	
Financial:	Cumulative Budget:	Cumulative Spent:
	\$10,946,671	\$920,985
Financial:	FY Budget:	FY Spent:
	\$5,000,000	\$24,313
Reclamation Share:	Estimated at 4% of project cost. Actual share TBD based on Construction Costs.	
Other Entities:	Pebble Beach Community Services District, CAWD/PBCSD Reclamation Project	
Permits Required:	Coastal Commission Notification	
Challenges:	Electrical Cutover Coordination	
Schedule:	<ul style="list-style-type: none"> Construction anticipated for FY21/22 into FY22/23 	
Consultants:	Design: Kennedy/Jenks Consultants Construction Management: Currie Engineers	
Contractor:	Clark Bros.	

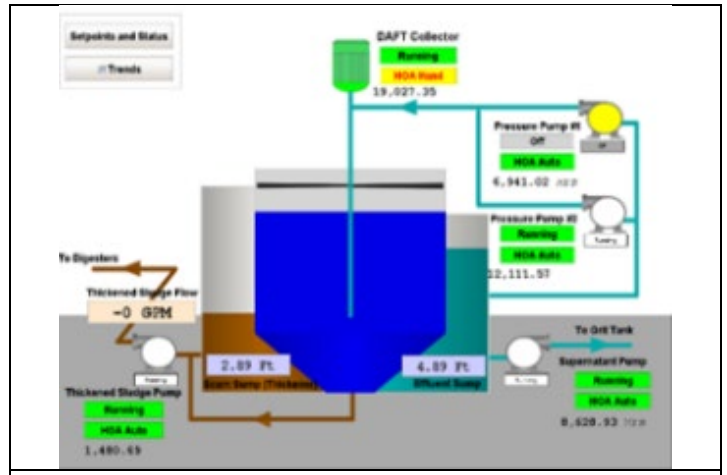


Photo: DAFT SCADA Overview

Project Number:	18-05	
Project Name:	Programmable Logic Controller (PLC) and Supervisory Control and Data Acquisition (SCADA) Programming Project	
Project Location:	Wastewater Treatment Plant	
Project Manager:	Foley	
Status:	SCADA Screens 85% complete	
Project Description:	During the Phase 1 project a new SCADA software package from Inductive Automation was installed to parallel the existing system. This project includes the migration of the remaining SCADA screens from the legacy system to the new system. The PLC code is also being updated to the CAWD standards that are being developed during this project. This project is necessary to replace obsolete software and hardware so that the automated controls, alarms, and reporting remain accurate and reliable.	
Department:	Treatment	
Financial:	Cumulative Budget:	Cumulative Spent:
	\$473,297	\$273,297
Financial:	FY Budget:	FY Spent:
	\$200,000	\$17,490
Reclamation Share:	Partial Reclamation	
Schedule:	<ul style="list-style-type: none"> Some minor additional work remains and will roll over into FY21/22. 	
Consultants:	Frisch Engineering	



Photo: Existing Gas Conditioning System

Project Number:		18-11	
Project Name:		Microturbine Integration Project	
Project Location:		Wastewater Treatment Plant	
Project Manager:		Treasor/Foley	
Status:		Shutting Down for Safety During Project 18-01 Work	
Project Description:		Overhaul of existing gas conditioning system and controls for the microturbines. The existing gas conditioning system has been having repeated mechanical failures which reduces the amount of time the Microturbines are in service. Significant overhaul of controls is needed to integrate the new 65kW turbine. CAWD is looking into a new gas conditioning system in case the existing system is not sufficient to treat the gas after the larger 65kW turbine is placed in service.	
Department:		Treatment	
Financial:	Cumulative Budget:	Cumulative Spent:	
	\$205,114	\$55,114	
	FY Budget:	FY Spent:	
	\$150,000	\$0	
Reclamation Share:		N/A	
Other Entities:		N/A	
Permits Required:		Air Board Permit	
Challenges:		Complexity of System	
Schedule:		<ul style="list-style-type: none"> Ongoing 	
Consultants:		Frisch Engineering (programming)	
Contractor:		N/A	



Photo: Existing totes used for Sulfuric Acid storage and Feed

Project Number:	18-26	
Project Name:	Sulfuric Acid & Citric Acid Storage & Feed Systems Project	
Project Location:	Reclamation – Microfiltration (MF)/Reverse Osmosis (RO)	
Project Manager:	Treanor	
Status:	Contractor Mobilization	
Project Description:	Code compliance upgrades for existing acid chemical storage and feed system used by Reclamation for enhancing RO recovery. Project includes code compliant secondary containment and separation of dissimilar chemicals.	
Department:	Treatment	
Financial:	Cumulative Budget:	Cumulative Spent:
	\$438,743	\$68,743
Financial:	FY Budget:	FY Spent:
	\$370,000	\$0
Reclamation Share:	100%	
Other Entities:	Reclamation Project	
Permits Required:	Coastal Commission Notification	
Challenges:	N/A	
Schedule:	<ul style="list-style-type: none"> • Bid Summer 2021 • Construction 2021/2022 	
Consultants:	Trussell Technologies, Inc	
Contractor:	TBD	



Photo: Eucalyptus trees on South Side of Treatment Plant

Project Number:	18-28	
Project Name:	Perimeter Tree Plan and Implementation	
Project Location:	Wastewater Treatment Plant	
Project Manager:	Treanor	
Status:	Pending Committee Meeting	
Project Description:	Planning and landscaping around the treatment plant. This will include looking into possibly replacing the non-native eucalyptus trees around the perimeter of the treatment plant with native tree species. The project will start with a study and a plan to determine costs, sequencing schedule, and visual impacts. The eucalyptus trees around the plant have ongoing maintenance costs which may be offset in the long term with different type of tree screening. Purpose is to improve security around plant perimeter.	
Department:	Treatment	
Financial:	Cumulative Budget:	Cumulative Spent:
	\$237,897	\$4,935
Financial:	FY Budget:	FY Spent:
	\$60,000	\$2,038
Reclamation:	N/A	
Other Entities:	N/A	
Permits Required:	Currently unknown (In Study Phase)	
Challenges:	Time it will take for new trees to grow up that will fully screen treatment plant from view	
Schedule:	<ul style="list-style-type: none"> • Study to occur in 2021 	
Consultants:	Scott Hall Landscape Design	
Contractor:	TBD	



Photo: Old Flood Door in Headworks Basement

Project Number: 19-01		
Project Name: Critical Process Minor Onsite Flood Mitigations		
Project Location: Wastewater Treatment Plant		
Project Manager: Waggoner		
Status: Converting to O&M Procedures		
Project Description: There are a few areas of the WWTP that may be vulnerable to inundation during a 100-year river flooding event. Although the actual impact to the process in the event of inundation of these areas may be minor, it would be prudent to mitigate any possible impacts of flooding on the treatment process. Staff are working on procedures and housekeeping practices to keep the site prepped for flooding.		
Department: Treatment		
Financial:	Cumulative Budget:	Cumulative Spent:
	\$21,788	\$21,788
Financial:	FY Budget:	FY Spent:
	\$0	\$0
Reclamation Share:	15% Reclamation	
Other Entities:	Reclamation Project	
Permits Required:	Coastal Commission Notification	
Challenges:	N/A	
Schedule:	<ul style="list-style-type: none"> Planning performed in 2019 Modifications in 2021 	
Consultants:	N/A	
Contractor:	TBD	

PRE-TREATMENT ORDINANCE
2020-XX



CARMEL AREA WASTEWATER DISTRICT

Project Number: 19-02		
Project Name: Pretreatment Ordinance		
Project Location: Pretreatment/Collections		
Project Manager: Lathér/De Ocampo/Waggoner		
Status: Complete		
Project Description: Prepare a Pre-Treatment Ordinance that is in compliance with the current standard of practice and the State Water Resources requirements.		
Department: Treatment		
Financial:	Cumulative Budget:	Cumulative Spent:
	\$0	\$0
Financial:	FY Budget:	FY Spent:
	\$0	\$0
Reclamation Share:	N/A	
Other Entities:	N/A	
Permits Required:	N/A	
Challenges:	None	
Schedule:	<ul style="list-style-type: none"> Ordinance Approval anticipated at 9/30/2021 meeting 	
Consultants:	None	
Contractor:	None	



Photo: View gravity pipe in Carmel easement

Project Number: 19-03		
Project Name: Carmel Meadows Sewer Replacement		
Project Location: Collection System		
Project Manager: Lathér		
Status: In Design / California Environmental Quality Act (CEQA)		
Project Description: The project will replace 1,300 feet of Ductile Iron Pipe (DIP) on an aerial span and eight manholes by constructing a small pump station at the end of Mariposa Drive. This project is located on an easement parallel to Ribera Road and was originally installed in the early 1960's.		
Department: Collections		
Financial:	Cumulative Budget:	Cumulative Spent:
	\$2,014,551	\$390,791
Financial:	FY Budget:	FY Spent:
	\$150,000	\$26,240
Permits Required: Coastal Permit and Environmental Review		
Challenges: Redirecting the sewer to the pump station without requiring booster pumps for individual houses.		
Schedule: Design and Environmental Review completed by 1/15/22. Construction to begin FY21/22.		
Consultants: SRT Consultants, WRA Environmental		
Contractor: TBD		



Photo: Entrance to Carmel Valley Manor

Project Number: 19-08		
Project Name: Carmel Valley Manor Pipeline and Pump Station		
Project Location: Collection System		
Project Manager: Lathér		
Status: Re-Design in Progress		
Project Description: Sewer extension project to be completed by the owners of Carmel Valley Manor to connect to CAWD's sewer system.		
Department: Collections		
Financial:	Cumulative Budget:	Cumulative Spent:
	\$0	\$180
Financial:	FY Budget:	FY Spent:
	\$0	\$180
Reclamation Share:		0%
Other Entities:		
Permits Required: County Encroachment Permit, Environmental Review in process		
Challenges: Funding, Repayment Agreement, LAFCO annexation		
Schedule: 3-22-21 LAFCO hearing. Approved without Protest		
Consultants: MNS and Rincon are working for Carmel Valley Manor to permit and design the project.		
Contractor: N/A		



Photo: View of proposed sewer line realignment

Project Number:	19-13	
Project Name:	Upper Rancho Cañada Pipe Relocation	
Project Location:	Collection System	
Project Manager:	Lathér	
Status:	In Construction	
Project Description:	This project relocates an existing sewer trunk line that serves the eastern most assets of the District and is located within the proposed County Park at Rancho Cañada. The trunk line varies in size from a 12-inch to 8-inch diameter and is made of Truss pipe material that was installed in the early 1970's. The pipe is damaged in many locations, has capacity issues, and was identified as a priority in the Asset Management Plan.	
Department:	Collection	
Financial:	Cumulative Budget: \$1,912,475	Cumulative Spent: \$312,549
	FY Budget: \$1,760,000	FY Spent: \$123,962
Other Entities:	Monterey Regional Park District	
Permits Required:	Environmental Review	
Challenges:	Providing a design that allows CAWD access to assets and is acceptable to the Park District.	
Schedule:	Construct August-December 2021	
Consultants:	MNS Engineering Rincon Environmental	
Contractor:	Graniterock	



Photo: Existing air diffuser system

Project Number:	19-19	
Project Name:	WWTP – Aeration Basin Improvements	
Project Location:	Wastewater Treatment Plant	
Project Manager:	Waggoner	
Status:	Parts in Stock – Installation On Hold	
Project Description:	The Aeration Basins 4A & 4B need to have additional diffusers installed to ensure the proper air (oxygen) transfer into the wastewater to support the aerobic microorganisms in the basins.	
Department:	Treatment	
Financial:	Cumulative Budget: \$9,030	Cumulative Spent: \$17,332
	FY Budget: \$0	FY Spent: \$8,302
Reclamation Share:	Estimated at 0% of project cost.	
Other Entities:	N/A	
Permits Required:	N/A	
Challenges:	Weather conditions and Scheduling	
Schedule:	<ul style="list-style-type: none"> • Design is complete • Materials ordered and received • Construction anticipated for Fall 2021 	
Consultants:	N/A	
Contractor:	TBD	

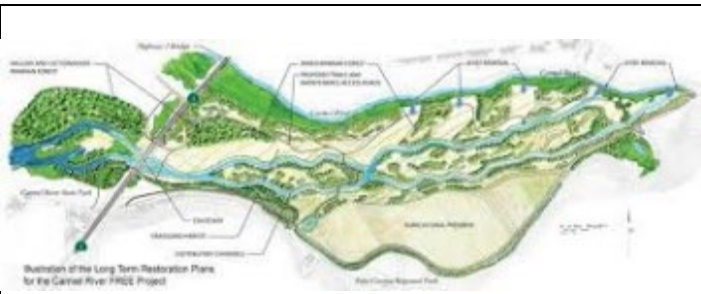


Photo: Carmel River Floodplain Restoration and Environmental Enhancement (CRFREE)

Project Number:	19-21	
Project Name:	Carmel River Floodplain Restoration & Environmental Enhancement (CRFREE) Mitigation	
Project Location:	Carmel River Lagoon	
Project Manager:	Treanor	
Status:	Design/Permitting/Developing Funding Agreement	
Project Description:	The CRFREE Project intends to create a new river channel in the Carmel River lagoon floodplain, which will significantly impact existing wastewater pipelines that cross the lagoon. To fully mitigate impacts from CRFREE the pipelines which are currently crossing over a portion of the lagoon are proposed to be installed underground using Horizontal Directional Drilling construction methods.	
Department:	Engineering	
Financial:	Coastal Conservancy Grant Budget: \$750,000	Cumulative Spent: \$480,141 FY Spent: \$15.1
** Project is being funded by CRFREE initiated grants		
Reclamation Share:	0%	
Other Entities:	Monterey County	
Permits Required:	Coastal Commission, CA Fish and Wildlife, Army Corp of Engineers, Reginal Water Quality Control Board (RWQCB)	
Challenges:	Construction near environmentally sensitive habitat and obtaining new easement from State Parks	
Schedule:	<ul style="list-style-type: none"> Design and CEQA anticipated completion Summer 2021 Construction anticipated in Summer 2022 	
Consultants:	Design: Kennedy Jenks and Staheli Trenchless CEQA: Johnson Marigot	
Contractor:	Pending	



Photo: River Watch logo

Project Number:	20-05	
Project Name:	River Watch Agreement	
Project Location:	Collection System	
Project Manager:	Lathér	
Status:	Work in Progress	
Project Description:	Work with Collections to provide data that is needed to satisfy the milestones in the agreement with River Watch.	
Department:	Collections	
Financial:	Cumulative Budget: N/A	Cumulative Spent: N/A
	FY Budget: N/A	FY Spent: N/A
Reclamation Share:	0%	
Other Entities:	River Watch	
Permits Required:	none	
Challenges:	Closed caption television (CCTV) scheduling deadlines. The Board agreed to increase staffing by 1 full time equivalent (FTE) to assist in meeting the required schedule. The new employee started 11-20-20. Received 1 yr. extension from River Watch due to COVID-19.	
Schedule:	Due date June 2023	
Consultants:		
Contractor:	N/A	

LAWD Collection Dept - CIP											
FY 2020/21 thru 2024/25											
Project #	PROJECT	2020	21/22	22/23	23/24	24/25	2026	27/28	28/29	29/30	30/31
1	Carmel Meadows Pipeline (Carmel Oaks)	\$185,000	\$1,000,000								
2	Marina Cactus Pipeline Pipe Relining	\$1,450,000									
3	Upper Sycamore-Carmel Pipe Relining	\$1,700,000									
4	Upper Sycamore PS Rehabilitation	\$100,000	\$750,000	\$110,000							
5	Upper Sycamore PS Rehabilitation	\$100,000	\$750,000	\$110,000							
6	Upper Sycamore PS Rehabilitation	\$100,000	\$750,000	\$110,000							
7	Chemical Injection or Incentive Pump Station	\$700,000	\$1,100,000	\$200,000							
8	Water Valve PS and Station - South of Santa Lucia		\$700,000	\$700,000							
9	17th Street to Hill Road		\$700,000	\$700,000							
10	Carmel Woods Senior Rehabilitation		\$400,000	\$2,000,000							
11	Water & San Cactus - Ocean to 2nd		\$150,000	\$1,000,000							
12	Del Mar Street Pipe Relining 4th to Hill		\$120,000	\$120,000							
13	Del Mar Street Pipe Relining Hill to Hill		\$120,000	\$120,000							
14	Marina PS Rehabilitation		\$200,000	\$1,000,000							
15	San Jose Street Pipe Relining 4th to 7th		\$150,000						\$850,000		
16	San Jose Street Pipe Relining 7th to Hill		\$150,000						\$850,000		
17	Water Valve PS and Station - Hill to Hill		\$150,000						\$850,000		
18	Water Valve PS and Station - Hill to Hill		\$150,000						\$850,000		
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100	Water Valve PS and Station - Hill to Hill		\$150,000						\$850,000		

Photo: LT Capital Schedule

Project Number: 20-06		
Project Name: Collections 20-Year CIP		
Project Location: Collection System		
Project Manager: Lathér		
Status: Work in Progress		
Project Description: Utilize updated sewer line inspection information and flow modeling to develop a 20-year Construction Improvement Plan		
Department: Collections		
Projection of Total Capital Costs-20-Yr \$60M	Construction Costs: \$50M	Administration Costs: \$10M (20% engineering, legal, admin.)
Financial:	Cumulative 15YR Budget: EST \$30M	Cumulative Spent: N/A
	FY Budget: N/A	FY Spent: N/A
Reclamation Share:	0%	
Other Entities:	River Watch	
Permits Required:	none	
Challenges:	Need all pipeline CCTV results to be completed to develop plan.	
Schedule:	2020 - 2040	
Consultants:	West Yost	
Contractor:	N/A	



Photo: Looking at Pump Station Exterior

Project Number: 20-07		
Project Name: Bay/Scenic Pump Station Rehabilitation		
Project Location: Collection System		
Project Manager: Lathér		
Status: In Design		
Project Description: Remodel the interior of the pump station and update SCADA panel to remove from areas prone to flooding.		
Department: Collections		
Financial:	Cumulative Budget: \$756,726	Cumulative Spent: \$22,887
	FY Budget: \$250,000	FY Spent: \$16,161
Reclamation Share:	0%	
Other Entities:	Carmel-by-the-Sea, Coastal Commission	
Permits Required:	Exemptions from CEQA & Coastal Commission	
Challenges:	Traffic Control	
Schedule:	Design 2021, Construct 2022	
Consultants:	SRT	
Contractor:	Pending	



Photo: Pipe Bursting Limits on Scenic

Project Number: 20-08		
Project Name: Scenic Rd Pipe Bursting - Ocean to Bay		
Project Location: Collection System		
Project Manager: Lathér		
Status: In Design		
Project Description: Replace approximately 4,950 linear feet of existing 6-inch clay pipe with a new 8-inch High-Density Polyethylene (HDPE) and includes manhole rehabilitation.		
Department: Collections		
Financial:	Cumulative Budget:	Cumulative Spent:
	\$1,280,276	\$89,110
Financial:	FY Budget:	FY Spent:
	\$1,200,000	\$8,834
Reclamation Share: 0%		
Other Entities: Carmel-by-the-Sea, Coastal		
Permits Required: Exemptions from CEQA & Coastal Commission		
Challenges: Traffic Control & poorly mapped Underground Utilities		
Schedule: Design 2021, Construct 2022		
Consultants: Pending		
Contractor: MNS		



Photo: WWTP Aerial Showing Eucalyptus Trees Around Perimeter

Project Number: 21-01		
Project Name: WWTP Eucalyptus Pruning		
Project Location: Wastewater Treatment Plant		
Project Manager: Treanor		
Status: Bid Phase		
Project Description: Trim Eucalyptus Trees around WWTP to control overgrowth of trees and mitigate spread of non-native tree.		
Department:		Treatment
Financial:	Cumulative Budget:	Cumulative Spent:
	\$150,376	\$20,376
Financial:	FY Budget:	FY Spent:
	\$130,000	\$0
Reclamation Share:		0%
Other Entities:		N/A
Permits Required:		Coastal Commission Notification, County Tree Cutting Permit
Challenges:		
Schedule:		Tree Trimming anticipated during non-nesting season (fall-winter 21/22)
Consultants:		Burleson Consulting (Environmental Monitoring) Frank Ono (Arborist)
Contractor:		TBD



Photo: Sewer Line Repair

Project Number: 21-02		
Project Name: 2021 Pipeline Spot Repairs		
Project Location: Collection System		
Project Manager: Lathér		
Status: Contracting		
Project Description: Repairs to damaged sections of pipe at various locations throughout the District as noted in sewer video inspections.		
Department: Collections		
Financial: O&M	Cumulative Budget:	Cumulative Spent:
	\$150,000 (FY21-22)	\$0
Financial: O&M	FY Budget:	FY Spent:
	\$150,000 (FY21-22)	\$0
Reclamation Share:	0%	
Other Entities:	N/A	
Permits Required:	none	
Challenges:	Traffic control in area of town, depth of repair.	
Schedule:	Complete by December 2021	
Consultants:	N/A	
Contractor:	Rooter King	



Photo: Impressed Current Rectifier

Project Number: 21-03		
Project Name: Cathodic Protection Testing		
Project Location: Treatment Plant		
Project Manager: Treanor		
Status: Pre-Design of Upgrades		
Project Description: Testing and evaluation of existing 50-year-old impressed current cathodic protection system for WWTP Ocean Outfall, and improvements design.		
Department: Treatment		
Financial:	Cumulative Budget:	Cumulative Spent:
	\$30,000	\$0
Financial:	FY Budget:	FY Spent:
	\$30,000	\$6,936
Reclamation Share:	0%	
Other Entities:	N/A	
Permits Required:	None	
Challenges:	None	
Schedule:	Complete by Mid 2022	
Consultants:	Trident Corrosion Engineering	
Contractor:	N/A	

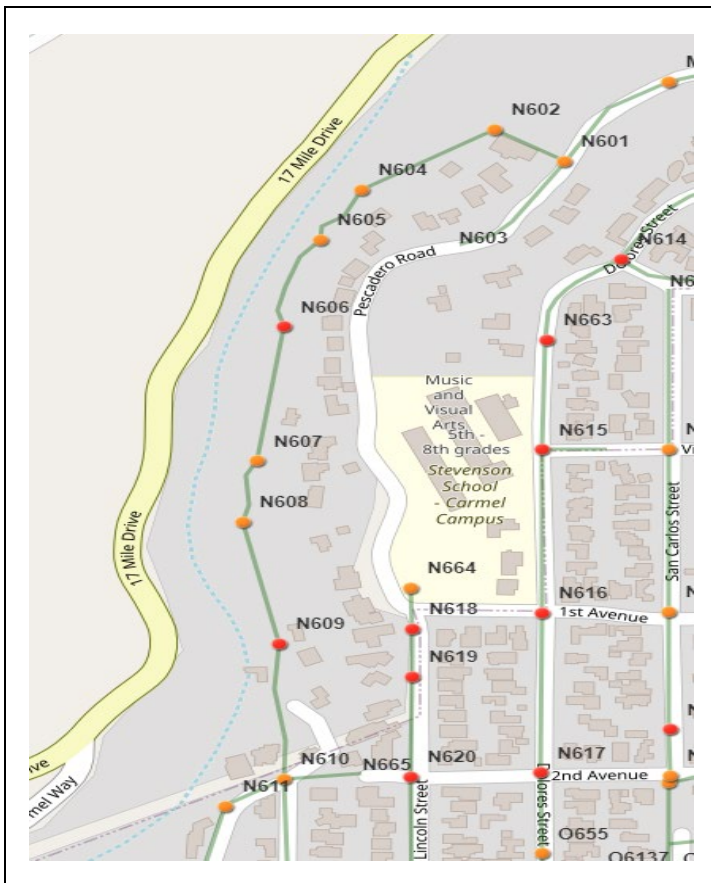


Photo: Sewer Line at Pescadero Creek

Project Number: 21-05		
Project Name: Pescadero Creek Area Pipe Relocation		
Project Location: Collection System		
Project Manager: Lather		
Status: Design Contract In Progress		
Project Description: Relocate damaged pipe from creek slope to roadway		
Department: Collections		
Financial: O&M	Cumulative Budget:	Cumulative Spent:
	\$1,700,00	\$0
Financial: O&M	FY Budget:	FY Spent:
	\$450,000 (FY21-22)	\$0
Reclamation Share: 0%		
Other Entities: N/A		
Permits Required: Environmental Review		
Challenges: Narrow road, depth of manhole, houses to be placed on individual pumps		
Schedule: Start design, public outreach & Environmental in Fall 2021		
Consultants: MNS, Denise Duffy		
Contractor: TBD		

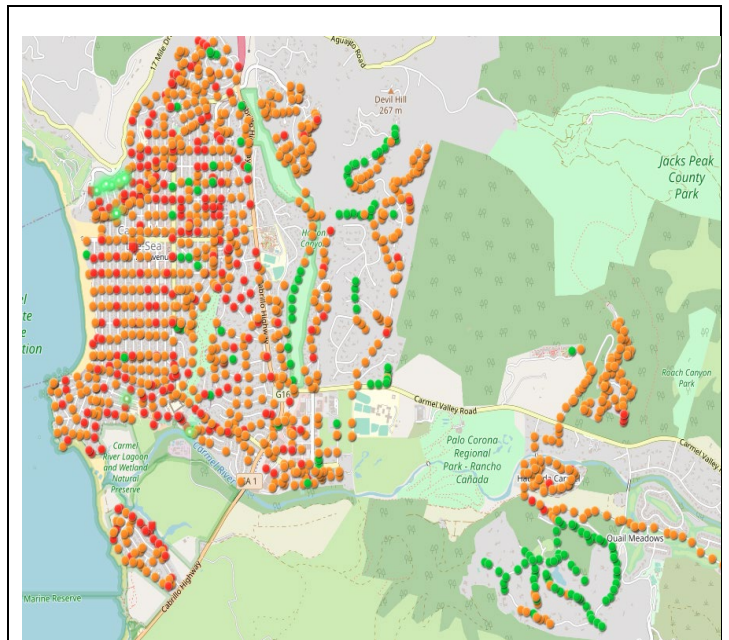


Photo: Manhole Inspection Map

Project Number: 21-06		
Project Name: Manhole Rehab		
Project Location: Collection System		
Project Manager: Lather		
Status: Design in House		
Project Description: Line Manholes with a solvent-free rigid polyurethane material that seals surface and provides structural integrity		
Department: Collections		
Financial:	Cumulative Budget:	Cumulative Spent:
	\$ 150,000	\$0
Financial:	FY Budget:	FY Spent:
	\$150,000	\$0
Reclamation Share: 0%		
Other Entities: N/A		
Permits Required: None		
Challenges: Traffic Control		
Schedule: Complete by Mid 2022		
Consultants: None		
Contractor: TBD		

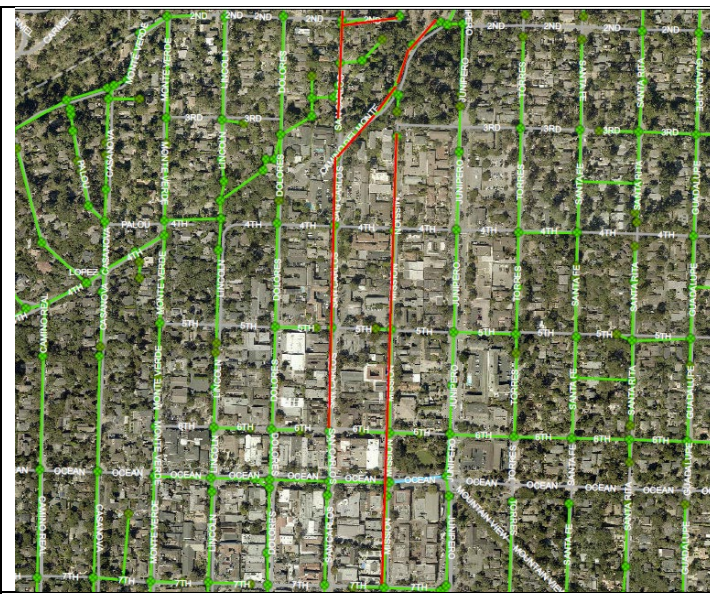


Photo: Sewer Line Rehab Location

Project Number: 21-07		
Project Name: Mission & San Carlos Sewer Rehabilitation from Ocean to 2nd		
Project Location: Collection System		
Project Manager: Lather		
Status: Consultant Request For Proposal (RFP) in October 2021		
Project Description: Replace or pipe burst existing sewer on Mission and on San Carlos		
Department: Collections		
Financial: O&M	Cumulative Budget:	Cumulative Spent:
	\$962,500	\$0
	FY Budget:	FY Spent:
	\$250,000	\$0
Reclamation Share:	0%	
Other Entities:	N/A	
Permits Required:	City of Carmel-by-the-Sea	
Challenges:	Traffic control in area of town, depth of repair.	
Schedule:	Complete by July 1, 2023	
Consultants:	TBD	
Contractor:	TBD	

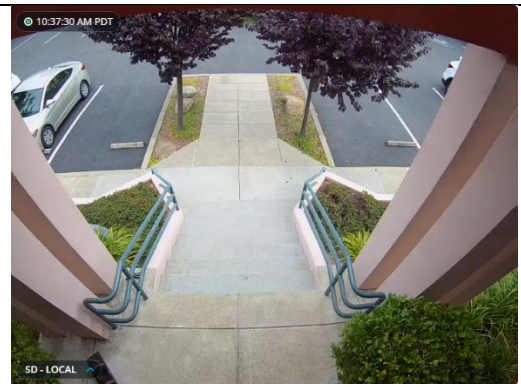


Photo: Security Cameras – Admin View

Project Number: TBD		
Project Name: Administration Access Control and Security Cameras		
Project Location: 3945 Rio Road		
Project Manager: Chris Foley		
Status: Procurement		
Project Description: Install 1 additional security camera and door access controller with card readers.		
Department: Administration		
Financial:	Cumulative Budget:	Cumulative Spent:
	\$	\$
	FY Budget:	FY Spent:
	\$19,291	\$
Other Entities:	None	
Permits Required:	None	
Challenges:	Adequate Coverage with minimal hardware.	
Schedule:	Construction to begin in September	
Consultants:	Verkada Security Systems	
Contractor:	Johnson Electronics	



Photo: Security Cameras – Plant Gate View

Project Number:		TBD
Project Name:		Treatment Plant Access Control and Camera Project
Project Location:		Treatment Plant
Project Manager:		Chris Foley
Status:		Procurement
Project Description:		Install additional security cameras to monitor vehicle storage and treatment plant site. Replace gate access controller with more secure platform.
Department:		Maintenance
Financial:	Cumulative Budget:	Cumulative Spent:
	\$	\$
Financial:	FY Budget:	FY Spent:
	\$24,000	\$
Other Entities:		None
Permits Required:		None
Challenges:		Adequate Coverage with minimal hardware.
Schedule:		Construction to begin in September
Consultants:		Verkada Security Systems
Contractor:		Johnson Electronics



ADP Workforce Now

Photo: ADP Clip Art

Project Number:	N/A	
Project Name:	Workforce Now	
Project Location:	All Supervisor Locations	
Project Manager:	Beth Ingram	
Status:	Contract signed waiting for implementation schedule and training	
Project Description:	Implementation of a comprehensive Human Resource (HR) software database for all supervisors and employees to utilize. Modules provide employee development tracking, benefits administration, custom performance review templates, and employee goal management.	
Department:	Administration	
Financial:	Cumulative Budget:	Cumulative Spent:
	\$0	\$2,520
Financial:	FY Budget:	FY Spent:
	\$0	\$2,520
Challenges:	Employee training	
Schedule:	Anticipate implementation Fall 2021	
Consultants:	ADP	



Photo: Caduceus

Project Number:	N/A	
Project Name:	Health Insurance Review	
Project Location:	Administration	
Project Manager:	Barbara Buikema	
Status:	Currently seeking quotes	
Project Description:	As part of employee negotiations for health insurance last year the District agreed to “shop” insurance rates. Currently looking at five different health insurance brokers. Next steps will be to preview information to Employee negotiating team. The final step is the presentation to the Salary & Benefit Committee prior to full roll out to the board.	
Department:	Administration	
Financial:	Cumulative Budget:	Cumulative Spent:
	\$0	\$0
Financial:	FY Budget:	FY Spent:
	\$0	\$0
Schedule:	Must be complete by 12-15-21 or earlier depending on December board meeting scheduled date	
Consultants:	Beth Ingram, HR	



Photo: Real Estate Clip Art

Project Number:			N/A		
Project Name:			Real Property Investigation		
Project Location:			Carmel Valley		
Project Manager:			Barbara Buikema		
Status:			Contract signed		
Project Description:			An investigation of possible treatment facility sites in the mouth of the Carmel Valley to respond to Coastal Commission requirement to move facilities within 30 years		
Department:			Administration		
Financial:	Cumulative Budget:		Cumulative Spent:		
	\$75,000		\$0		
Financial:	FY Budget:		FY Spent:		
	\$75,000		\$0		
Permits Required:			None – at this time		
Challenges:			Limited possibilities, regulatory hurdles, zoning		
Schedule:			12 mos.		
Consultants:			Mahoney & Associates		



Photo: Cyber Security Clip Art

Project Number:			N/A		
Project Name:			Cyber Security		
Project Location:			District-wide		
Project Manager:			Chris Foley		
Status:			Ongoing		
Project Description:			Internal Cyber Security Incident Response Team (CSIRT) formed and they are working on a response plan & training. The upgrades to email filtering system have been completed. Stricter geofencing policies have been put in place, and a cold backup system that is sandboxed from the network is planned.		
Department:			All		
Financial:	Cumulative Budget:		Cumulative Spent:		
	\$0		\$0		
Financial:	FY Budget:		FY Spent:		
	\$17,000		\$0		
Challenges:			Ongoing training & continual upgrades as skills of hackers grow		
Schedule:			Open ended		
Consultant:			Exceedio		



Photo: Six Sigma Clip Art

Project Number:		N/A	
Project Name:		Lean Six Sigma	
Project Location:		Management staff	
Project Manager:		Barbara Buikema	
Status:		Training phase	
Project Description:		Currently all managers have been assigned the task of earning a Green Belt by 12-31-21. Plan to move on with self-study course to Green Belt. Also, will investigate an in person trainer for implementation of a specific agreed upon project.	
Department:		Administration	
Financial:	Cumulative Budget:	Cumulative Spent:	
	\$0	\$0	
Financial:	FY Budget:	FY Spent:	
	\$0	\$2,000	
Permits Required:	None		
Challenges:	Implementation phase		
Schedule:	Ongoing		
Consultants:	Self-study online		
Trainer:	To be determined		



Photo: California coastline

Project Number:		N/A	
Project Name:		Coastal Permit Monitoring Requirements	
Project Location:		Treatment Plant	
Project Manager:		Barbara Buikema/Patrick Treanor	
Status:		Ongoing	
Project Description:		As conditions of Coastal Permit #3-82-199-A8 - the District must submit a Long-Term Coastal Hazards Plan by 03-11-22. This shall describe the specifics that will be analyzed during the iterative planning process and identify triggers for when Executive Director review and the approval is necessary. Progress reports are due at five-year intervals by 05/01/2025, 05/01/2030, etc. Must include and describe coastal hazard trends and changes since approval of this permit and efforts to monitor and address coastal hazards over time.	
Department:		Administration	
Financial:	Cumulative Budget:	Cumulative Spent:	
	\$0	\$0	
Financial:	FY Budget:	FY Spent:	
	\$0	\$0	
Permits Required:	In response to California Coastal Commission		
Challenges:	Establishing focus on long term objectives and committing to follow through items.		
Schedule:	Draft Long-Term Coastal Hazard Plan will be complete by 01-02-22		
Consultants:	None at this time, however we anticipate and have provided for in long term coastal hazards monitoring planning budget \$75K year.		

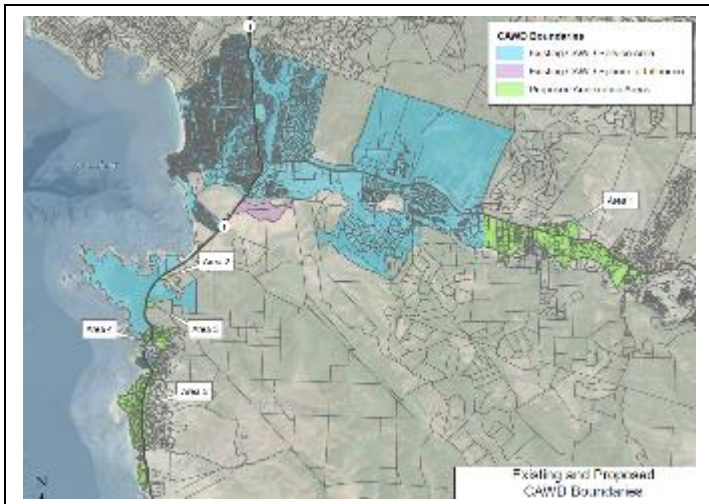


Photo: Areas of Potential Annexation

Project Number:		18-21, 19-04, 19-09	
Project Name:		2021 CAWD Sphere of Influence (SOI) Amendment & Annexation Proposal	
Project Location:		Collection System	
Project Manager:		Lathér	
Status:		Pending Recording by CA State	
Project Description:		The project will provide access for homes and businesses currently on septic systems and add approximately 350 connections to the District at build-out. Interested areas include Corona Road, Riley Ranch, Carmel Valley Manor and Yankee Point & Otter Cove.	
Department:		Collections	
Financial:	Cumulative Budget:	Cumulative Spent:	
	\$105,000 (55K+50K)	\$51,767	
Financial:	FY Budget:	FY Spent:	
	\$0	\$26,527	
** No Budget included for Annexation b/c costs will be recouped through annexation fees.			
Permits Required:		Environmental Review, LAFCO Annexation Approval	
Challenges:		#18-21 Working with homeowner groups to form a Corona Road Assessment District to pay for infrastructure that is needed to connect to our sewer system. Funds from homeowner in the amount of \$67K received by CAWD.	
Schedule:		LAFCO annexation hearing on 3-22-21. Approved with zero protests.	
Consultant:		Denise Duffy & Associates	

STAFF REPORT

To: Board of Directors

From: Ed Waggoner
Operations Superintendent

Date: September 30, 2021

Subject: Monthly Operations Report – August 2021



RECOMMENDATION

Receive Report- Informational only; no action required.

DISCUSSION

Plant Operation

Treatment Plant:

- The treatment plant operations staff has continued finishing up projects and concentrating on Preventative Maintenance Work Orders during the month of August. This included the implementation of the Operations Flood Preparation Standard Operating Procedures from the Plant Engineer.
- (Project 18-05) Programmable Logic Controller/Supervisory Control and Data Acquisition (PLC/SCADA). Operations staff has been meeting and working with Maintenance and Frisch Engineering on the upgrades and programming of the PLC/SCADA System.

Reclamation:

- Staff continued preventative maintenance work on pumps, motors, and any equipment that needs maintenance for the Microfiltration and Reverse Osmosis Systems.
- Staff completed Clean-in-Place (CIP) cleans on Microfiltration (MF) Cells 1, 2 and 3. All cells cleaned successfully with Trans Membrane Pressures (TMPs) pressures ranging between 4.0 to 8.7 pounds per square inch (psi).
- Jar Testing was conducted with Pacific Brenntag on August 26 to find a replacement chemical for Phosphorus removal for the Reverse Osmosis System as PHOS-58 will no longer be available starting October 1, 2021.

- On August 31 staff inspected MF Cell #2 (Carter Lake Modules) as TMPs surged and stayed at 10 to 11 psi after cleans. Staff observed split and swelled casing ends on most of the modules which indicated end of life for the modules. Staff scheduled September 1, 2021, to replace the Evoqua-Memcor S10V Modules with 160 Scinor SMT600-S26 Modules. This change out of modules was successful with operations staff and no operational downtime or discharge of secondary effluent to the outfall line occurred.

Training:

- Staff continues to complete online training at the treatment facility from Target Solutions as Carmel Area Wastewater District implements its new safety policies for the Exposure Control Plan updates for the COVID-19 virus.
- Staff continues to participate in scheduled tailgate safety meetings with Collections leading the way by holding the meetings in the truck bays so social distancing can be practiced.
- The Operations Superintendent attended a webinar on Side Stream Biological Phosphorus Removal on August 19, 2021.
- August 31, there was a general employee meeting to go over the updated COVID-19 Response Plan.

Capital Improvement:

- Staff continues working with Plant Engineer, Patrick Treanor, on Project #18-01, the Electrical/Mechanical Rehabilitation and Sludge Holding Tank Replacement Project for the following areas: Influent Pump Station, Headworks, Blower Building, Chlorination/Dechlorination Building, Effluent Building, Digester No. 1, Digester No. 1 Control Building and Dewatering Building.
- August 17, Coordination Site Walk with Plant Engineer, Patrick Treanor, on Project #18-01, the Electrical/Mechanical Rehabilitation and Sludge Holding Tank Replacement Project for the following areas: Influent Pump Station, Headworks, Blower Building, Chlorination/Dechlorination Building, Effluent Building, Digester No. 1, Digester No. 1 Control Building and Dewatering Building.
- Operations staff are performing various cleanup projects to prepare for the arrival of Clark Bros Construction Company's office trailer and equipment storage systems for Project #18-01, the Electrical/Mechanical Rehabilitation and Sludge Holding Tank Replacement Project for the following areas: Influent Pump Station, Headworks, Blower Building, Chlorination/Dechlorination Building, Effluent Building, Digester No. 1, Digester No. 1 Control Building and Dewatering Building.

Meetings Attended

- An August 19 meeting with Canada Woods Water Company on possible sewer connection to new main sewer pipeline from the Carmel Valley Manor Project.
- An August 17 Reclamation Oversight Committee Zoom meeting with Golf Course Superintendents for strategy of irrigation on the golf courses for the month of August.

Discharge Permit Violations

- There were no Reclamation Permit 93-72 discharge violations for the month of July 2021.
- There were no Violations of the National Pollutant Discharge Elimination System (NPDES) Number CA0047996, Order No. R3-2014-0012 within the month of July 2021.
- The July second quarter report submitted for Effluent Dichloro-diphenyl-trichloroethane (DDT) for the National Pollutant Discharge Elimination System (NPDES) Number CA0047996, Order No. R3-2014-0012 permit. No violations for this reporting period. Staff has not received feedback from Central Coast Regional Water Quality Control Board on the submitted Toxicity Reduction Evaluation (TRE) Work Plan for Order No. RCA0047996 as set forth in Section V.2.a. Toxic Reduction Requirements on November 11, 2020. This plan is currently under review by the Central Coast Executive Officer to be certified for future use if needed.

FUNDING

N/A-Informational item only

STAFF REPORT



To: Board of Directors
From: Chris Foley, Maintenance Superintendent
Date: September 30, 2021
Subject: Monthly Maintenance Report – August 2021

RECOMMENDATION

Receive Report- Informational only; no action required.

DISCUSSION

Maintenance Projects in Progress/Completed

- Update: The security camera and access control project is in progress. Hardware is on order and some minor infrastructure work has been completed to prepare the buildings for the new cameras.
- The stainless-steel piping supplying water to reclamation reverse osmosis (RO) train #2 had a leak. Maintenance staff repaired the leak by welding a patch on the crack. The other pipes were inspected and there were no signs of cracking.
- Staff replaced the manual secondary distribution box valve with an electric modulating valve. Programming was added to the valve to relieve the blower air pressure when the blower is at minimum speed and demand is still dropping. The current pressure relief control was being tested on aeration basin 4A but that basin will be placed back online so another solution was needed to relieve excess pressure during low air demand period so the blower will not surge or shut off.
- New cybersecurity updates were applied to the district email system.
 - Emails received from external sources now have a header in the email body that highlights the source is external. This assists users in identifying spoofing emails that may appear from an internal source but are external and also increases awareness when clicking on a link or attachment.

- Microsoft Azure Defender Safelinks and Safe Attachments were also added to the Outlook email system. This service scans hyperlinks and attachments before reaching a user's inbox. If the link or attachment is malicious it will be quarantined before it reaches our system. This will minimize the risk of ransomware and other hacking vulnerabilities.
- Staff is working with Exceedio on updating the plant ethernet switching network. New switches are on order. This will improve segregation of the Supervisory Control and Data Acquisition (SCADA) network and business network by providing a single point of disconnect. Switch models will be standardized which will provide improved resiliency to hardware failures.

Upcoming Maintenance Projects

- Update: Bryan Mailey Electric will be installing variable frequency drive (VFD) controls for a sand filter reject pump and tertiary clarifier polymer mixer. VFD controls will improve the process and consistency of the reject water flow. The polymer mixer is currently offline since at full speed it breaks up the suspended material so the addition of the VFD will allow staff to place the mixer back online at a reduced speed, which will improve the polymer mixing and tertiary clarifier process. The material is on order.
- Staff has contracted with Telstar to perform minor instrumentation work. The instrumentation technician role is a current skill gap between an electrician and system integrator. A hybrid approach is being taken to fill this skill gap. Staff is receiving more training and Telstar will be brought in when specialized equipment is required. Telstar will be troubleshooting the screwpress flow meter and commissioning Evoqua Deox 2000 de-chlorination analyzer. Update: Vendor visit delayed due to the lack of a technician available due to COVID-19
- (Project 18-01) The microturbine system will be taken offline and purged in September. The system is directly adjacent to the old digester tank that will be removed during the electrical and mechanical rehabilitation project.

Staff Development

- Greg Ange and Michael Skinkle have completed Six Sigma white belt certification.
- Michael Skinkle received in-house training on Highway Addressable Remote Transducer (HART) laptop modem and software. This allows staff to configure and troubleshoot instrumentation such as pressure and temperature transmitters. HART is standard protocol utilized by most instrument manufacturers.

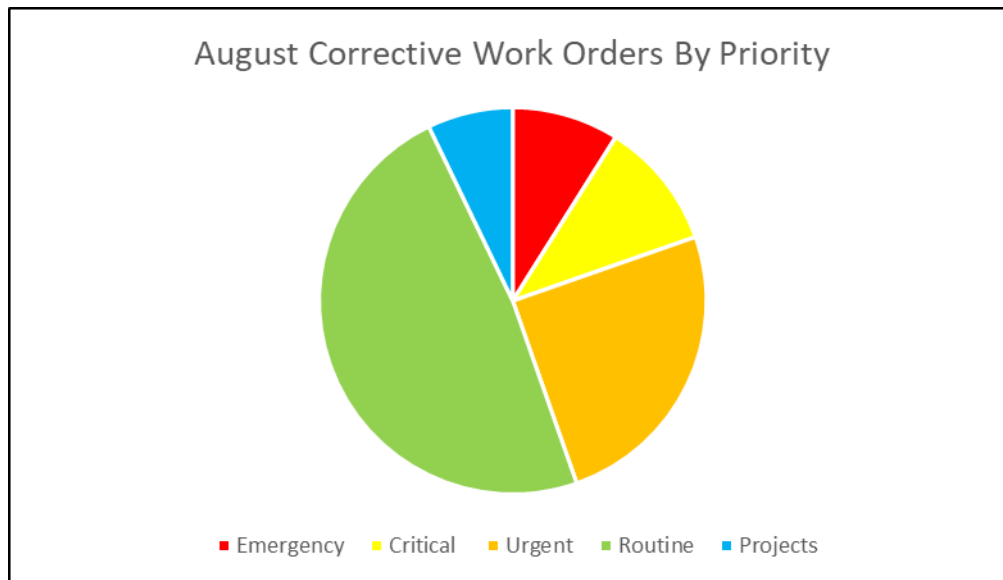
- Alex Quintero has been assigned the rebuild of his first positive displacement pump. Michael Skinkle and Greg Ange are mentoring Alex on this task.

Work Order Metrics

Preventive Maintenance

Total Work Orders Generated	442
Total Work Orders Closed/Done	433
Total Work Orders Still Open	9
Percentage of Work Orders Completed	97.96%

Corrective Maintenance



Emergency	5
Critical	6
Urgent	14
Routine	27
Projects	4

FUNDING

N/A- Informational item only

STAFF REPORT



To: Board of Directors
From: Rachél Lather, Principal Engineer
Date: September 30, 2021
Subject: General Engineering

RECOMMENDATION

Receive Report- Informational only; no action required.

DISCUSSION

This report is provided to update the Board of the Carmel Area Wastewater District (District) on current engineering activities during the months of August and September, 2021.

General Engineering

The Principal Engineer continues to work on projects related to the 2021 Annexation, including Yankee Point, Carmel Valley Manor and Corona Road. The Corona Road project engineer, Monterey Bay Engineers, has completed surveying the project site and the environmental/permitting process has begun. The engineer is also moving forward with completing a draft Assessment Engineer Report.

Carmel Valley Manor (CVM) is continuing to work on their project to connect to the District and have delayed their project in order to work with Cañada Woods to utilize another pipeline alignment that will benefit the District, CVM, and potentially allow Cañada Woods to connect to the District as a satellite agency in the future. There has been a great deal of interest by other owners adjacent to this project regarding connecting to the sewer and the Principal Engineer has been working to educate the interested parties regarding the steps to take to connect.

The Yankee Point/Spindrifft study is being conducted by MNS Engineers, Inc. A draft report has been presented to Mr. Keig and the Principal Engineer met with all parties on July 27, 2021. The estimated cost per parcel is \$80,000 and includes replacing the Highlands Inn force main with a 6-inch force main and using a low-pressure sewer force main system to transport sewage to the pump station.

The system requires that all homes be serviced by individual pumps that provide pressure to the force main. This eliminates the need for large pump stations and the associated cost to build them. In addition, the costs could be reduced significantly if the remaining parcels in Carmel Highlands were annexed to the District. Mr. Keig is going to share the draft report with others to see if there is support for the project.

A draft of the Initial Study/Mitigated Negative Declaration (IS/MND), Biologic Study, and Cultural Resources report for the Carmel Meadows Sewer Replacement project (19-03) has been provided to the Principal Engineer to review. Staff plans to submit the Draft IS/MND to the Board to authorize public circulation of the document on October 28, 2021.

Upper Rancho Cañada Pipe Relocation Project (19-13)

Construction of the Upper Rancho Cañada pipe relocation project has been awarded to Graniterock and pipe bursting between Via Petra /Via Mallorca and the park has been completed. The truss pipe apparently was in such poor condition that it was too easy to burst, creating large sags in the new pipeline. The Principal Engineer is working with Graniterock and MNS Engineers to come up with a solution and cost to repair the sags in the first segment of pipe that was burst. The remaining segments appear to be in good condition.



Photo No. 1 -View of Truss Pipe

A 12-inch California American Water Company (Cal Am) water supply line was excavated in the pipe bursting receiving trench and was discovered to have been placed directly on top of our pipeline. This caused Graniterock to not be able to pipe burst this section of the pipe. The information provided by Cal Am during design of the project did not indicate that there was not sufficient vertical separation to meet health requirements between the water line and our pipe. In addition, it appears that during the construction of the Cal Am water line, a large hole was busted into our pipe that was not repaired or reported to the District. We requested that Cal Am staff inspect the issue and move the pipeline so we would not have to redesign the entire project. Cal Am is currently preparing to relocate their water line out of the way of our project so we do not have to redesign the entire pipeline and manholes.



Photo No. 2- View of Water Line Above Existing Sewer and Hole In Sewer line

Trenching within the Palo Corona Park began on September 15, 2021, at the west end of the project and it is anticipated that the open cut pipeline construction will take 3 weeks to complete.



Photo No. 3- View of Trenching in Palo Corona Park

FUNDING

N/A- Informational item only

Resolutions

STAFF REPORT

To: Board of Directors
From: Rachél Lather, Principal Engineer
Date: September 30, 2021
Subject: Pescadero Creek Area Pipe Relocation
Project#21-05



RECOMMENDATION

It is recommended that the Board of Directors approve a resolution authorizing the General Manager to enter into a contract with MNS Engineers, Inc. (MNS) to provide design services for the Pescadero Creek Area Pipe Relocation project in the amount of \$202,921, including geotechnical analyses, environmental permitting and public outreach support.

DISCUSSION

The sewer main in this area is located in backyard easements above Pescadero Creek and has been in service for over 80-90 years. The vitrified clay pipe sewer main has been damaged in the past by tree falls, has limited access for District vehicles due to slope stability issues along the access road, and is in poor condition. This pipeline is within 200 feet of the creek and its replacement is in compliance with the agreement with River Watch.

In 2016, MNS prepared a Draft Preliminary Engineering Report and Denise Duffy & Associates provided an environmental constraints analysis for each of the options to replace the pipeline, but the document was not finalized. The option to redirect the pipeline in the Pescadero Road right-of-way is the best long-term solution to protect the sewer from slope stability issues and prevent damage to the environment. This will require the residences along that stretch of sewer to install pumped lateral connections to convey wastewater to the new main.

Staff will complete outreach to the residential owners and return to the Board with a policy on ejector pumps once the preliminary design and outreach have commenced. This policy is anticipated to be addressed initially for the Carmel Meadows pipeline replacement project and that project will be completing environmental review in March 2022.

The Carmel Area Wastewater District (District) has received a proposal dated September 7, 2021, from MNS Engineers, Inc. to finalize the Preliminary Engineering Report and complete the engineering design of the pipeline replacement. This includes environmental permitting, coastal development permitting and development of a public participation plan. It is anticipated that the District will need to do a higher level of public outreach due to the need to place homes on pumped lateral connections.

FUNDING

The project was included in the 2021/2022 budget in the amount of \$450,000.

Attachment: MNS Proposal
Resolution 21-53



811 El Capitan Way Suite 130, San Luis Obispo, CA 93401
Ph. (805) 778-0326 / F. (805) 787-0437

September 14, 2021

Ms. Rachél Lather, M.S., P.E.
Carmel Area Wastewater District
3945 Rio Road
Carmel-By-The-Sea CA 93923

Subject: Proposal for Professional Engineering Services – Pescadero Road Sewer Main Replacement Project

Dear Mrs. Lather:

Thank you for the opportunity to submit this proposal for Professional Services for the Pescadero Road Sewer Main Replacement Project (Project) for the Carmel Area Wastewater District (District or CAWD). MNS Engineers, Inc. (MNS) offers our qualified team to provide professional services for this Project.

Project Understanding

The District is seeking an engineering consultant team to provide planning, design, permitting, and public outreach services for the replacement of an existing gravity sewer near Pescadero Road, within the City limits of Carmel-by-the-Sea, and unincorporated Monterey County.

The section of sewer main to be replaced is located in and parallel to Pescadero Road on the northwest side of the City of Carmel-by-the-Sea (City) in Monterey County, California. The pipeline and associated manholes were installed 80-90 years ago. The existing alignment runs to the west of a row of residential properties along the west side of Pescadero Road. The sewer main crosses several properties along the existing alignment including private residential properties and property owned by the Del Monte Forest Conservancy, designated as the Pescadero Canyon Property. The ground surface in this area is steeply sloped from the east to the west, unstable, and currently inhabited by a variety of plant and animal species, including Monterey pines and coast live oaks. The existing sewer main runs upslope from, and parallel to, the Pacheco Creek riparian corridor.

The existing 6-inch diameter vitrified clay pipe (VCP) sewer main has been damaged by tree falls and is in poor condition. Localized high points and other condition issues have caused several sanitary sewer overflows, and maintenance crews have had difficulty accessing the sewer main for maintenance. Frequent maintenance is required due to the poor condition of the sewer main.

The sewer main conveys wastewater from an estimated 275 parcels, primarily residential, within the District's service area. Of these parcels, 19 are located along Pescadero Road and have service laterals directly connected to the existing sewer main. This section begins at District manhole N601, located within the roadway near 24652 Pescadero Road. From this point, it extends from Pescadero Road to the west, inside of the property line at 24652 Pescadero Road (APN 009-112-013) to manhole N602, then turns south in the Pescadero Canyon Property (APN 008-161-009).

MNS prepared a Draft Preliminary Engineering Report (PER) in 2016 in support of the Project, but the document was not finalized. The gravity sewer is expected to be replaced with 8" polyvinyl chloride (PVC) pipe in the Pescadero Road right of way using open trench construction. The proposed alignment extends from manhole N601, along Pescadero Road to the intersection of 2nd Avenue, then west on 2nd avenue, through a cul-de-sac and unimproved hillside to Monte Verde Street, where it will reconnect to the District collection system. The existing sewer will be abandoned in place. Residences currently connected to the sewer will be required to install pumped lateral connections to convey wastewater to the new main within Pescadero Road.

Project Approach

MNS will take a comprehensive approach to the Project, actively managing the individual tasks and minimizing District effort to move the project forward. In addition to utilizing our in-house experienced survey, water resources, and construction management staff, we have selected Pacific Crest Geotechnical, Inc. (Pacific Crest) to provide geotechnical guidance on the Project and Denise Duffy and Associates. (DD&A) to assist with project permitting and public outreach.

Project Scope

MNS proposes the following scope of work to provide planning, surveying, engineering design, permitting, and public outreach services for the Pescadero Road Sewer Main Replacement Project. A description of tasks and responsibilities is described below.

Task 1 – Project Management, QA/QC, and Meetings

This task includes Project Management, QA/QC, and meetings associated with the Project.

Subtask 1.1 – Project Management

The Project Manager, Nick Panofsky, PE, will provide ongoing coordination of the project team including the District, subconsultants, and the internal project team during design of the Project. He will also monitor the budget and serve as the main point of contact with the District during project design. Frequent phone calls and e-mail updates will be sent from the MNS Project Manager to the District Engineer in order to keep the coordination open and up-to-date. MNS' Project Manager will submit monthly invoices with all supporting documentation in a format acceptable to the District.

The MNS Project Manager will be responsible for ensuring all deliverable deadlines are met, all internal quality control reviews are completed, and the final products meet the expectations of the District.

Subtask 1.2 – Quality Assurance/Quality Control

In accordance with MNS company policy, all deliverables, calculations, recommendations, and other documentation will be reviewed by an experienced engineer, not otherwise associated with the Project, prior to submittal to the District. Documents will be reviewed to ensure technical excellence, the goals and expectations of the District are being met, and conformance with applicable design checklists and standards. For the Project, all deliverables and other items requiring quality control reviews will be reviewed by Tyler Hunt, PE, Lead Engineer.

Subtask 1.3 – Design Meetings

Over the course of the Project, MNS will facilitate and lead meetings and conference calls as required to move the Project forward and ensure the District and other project stakeholders are informed and in concurrence with the progress of the Project. We have budgeted for five planning and design meetings:

- Project Kickoff Meeting and Site Visit
- Final Draft Preliminary Engineering Review Meeting (Virtual)
- 60 Percent Design Review Meeting
- 90 Percent Design Review Meeting (Virtual)
- 100 percent Design Review Meeting (Virtual)

For each meeting, MNS will develop a meeting agenda, and will submit meeting minutes to the District within five business days. The Project Manager, additional staff, and subconsultants will attend as appropriate.

Task 2 – Finalize Preliminary Engineering Report

MNS will revise and update the Draft PER based on comments from the District, current District standards, and changes in approach and existing condition. DD&A will also update their environmental constraints analysis for inclusion in the PER. The PER will be submitted as a Final Draft, for District review. Following receipt of all District review comments, and a Final Draft PER Review Meeting as discussed in Task 1.3, MNS will finalize the PER. The final PER will be stamped and signed by a

professional civil engineer, registered in California. The Final PER will be posted on the Project website, established and maintained by DD&A.

Task 3 – Site Survey and Utility Research

Subtask 3.1 – Topographic and Boundary Survey

MNS will perform field surveying and mapping in support of the design improvements located along Pescadero Road to the intersection of Monte Verde Street and 2nd street intersection (Approx. 2,300-LF). MNS will establish control on the NAD83, Epoch 2017.50 horizontal datum and NAVD88 vertical datum based on ties to CORS/CGPS stations. The mapping will extend 10' outside of paved areas of the proposed mapping limits. The survey mapping will include the following items:

- Cross sections at approximately 25-foot intervals to develop approximate roadway profile
- Hardscape, driveways, walls, fences, and trees, 6" in diameter and above
- Observable utilities (does not include underground utilities)
- Locations and dips of existing sewer/storm drain manholes (6 structure estimate)

MNS will prepare a base map in AutoCAD at a scale of 1-inch = 20-feet with 1-foot contour intervals.

MNS will also prepare a record right of way boundary based on a best fit solution to found monuments. Initial research shows little to no monumentation within the project limits. This scope of work does not include easement retracement or obtaining a preliminary title report.

Subtask 3.2 Utility Research

MNS will contact utility agencies with below-grade facilities in the Project areas to obtain atlas maps and other available information regarding the type, size, location, material, and depth of existing utilities. We have budgeted \$100 in reimbursable expenses to cover the costs of fees associated with these requests. Utility information obtained will be incorporated into the Project base map.

Task 4 – Geotechnical Investigation

Our subconsultant Pacific Crest, will develop geotechnical recommendations for the Project. A detailed proposal for Pacific Crest services is provided as an attachment.

Prior to beginning field work, the proposed test boring locations will be marked and coordinated with Underground Service Alert (USA). A Traffic Control Plan will be developed for field boring work. An encroachment permit will be prepared and submitted to the City of Carmel-by-the-Sea and the County of Monterey prior to the field investigation. Pacific Crest is not responsible for damage to any utilities not identified and/or not properly marked at the ground surface.

Pacific Crest will explore, sample, and classify surface and subsurface soils by advancing a total of five to six test borings at select and accessible locations along the existing pipeline alignment. A log of soil, bedrock, and groundwater conditions will be maintained.

Pacific Crest will conduct laboratory testing on the soils at each boring site and will develop pertinent recommendations applicable, including excavation trench section, slope stability, E'c values for design of flexible pipe, pipeline external loading on flexible and rigid pipes, utility trench backfill and lateral earth pressures. The findings of this study will be documented in a draft and final geotechnical report, which will be submitted to the District.

Task 5 – Detailed Design

Using the site information collected in Tasks 3 and 4, MNS will prepare detailed drawings for the Project. Drawings will be prepared in AutoCAD Civil 3D. Plan and profile (P&P) drawings will be prepared with a horizontal scale of 1-inch equals 20 feet, with the vertical scales on profiles being drawn at a scale of 1-inch equals 4 feet. An anticipated sheet list includes:

Sheet	Sheet No.	Description
1	G-1	Title Sheet, Vicinity Map, Location Map and Sheet Index
2	G-2	General and Civil Notes and Sheet Layout Plan
3	C-1	Sewer Plan and Profile – 1
4	C-2	Sewer Plan and Profile – 2
5	C-3	Sewer Plan and Profile – 3
6	C-4	Sewer Plan and Profile – 4
7	C-5	Sewer Plan and Profile – 5
8	C-6	Sewer Plan and Profile – 6
9	C-7	Sewer Abandonment Plan
10	C-8	Sewer Manhole Details and Lateral Connection Details
11	C-9	Sewer Trench, Connection, and Miscellaneous Details

The pipeline design will consider California Department of Drinking Water separation requirements from water mains, existing utilities, neighborhood convenience, and anticipated requirements of public safety. We assume the Contractor will be responsible for developing a sewer bypass plan based on requirements detailed in the technical specifications.

Specifications

We will prepare technical specifications using the District’s boilerplate Special Provisions template. MNS will develop technical specifications for this project based on CAWD Engineering Standards and Standard Specifications for Public Works Construction (Greenbook). Design specifications will be in conformance to jurisdictional entities including the City of Carmel-by-the-Sea, County of Monterey, the District, and other entities as required.

Engineer’s Opinion of Probable Construction Cost

MNS will prepare an Engineer’s Opinion of Probable Construction Cost for each design submittal. We will base the opinion on recent projects of similar size and scope upon which we have worked, as well as cost estimating manuals, communication with contractors, and other resources.

Subtask 5.1 60 Percent Design

MNS will prepare 60 percent design plans, specifications and Engineer’s Estimate of Probable Construction Cost (PS&E) for District review. 60 percent specifications will be limited to a table of contents of technical sections. We will assemble a review package in Adobe Acrobat (PDF) format and transmit electronically. Following receipt of the District’s consolidated 60 percent design comments, we will hold a design review meeting with District staff to discuss the District’s comments per Task 1.3. We anticipate all comments will be generally within the scope of this proposal.

We will review and update the PS&E package in a timely manner for a 90 percent design submittal. We will prepare a response matrix summarizing each District comment on the 60 percent design, identifying how each comment is addressed in the 90 percent submittal.

Subtask 5.2 90 Percent Design

MNS will prepare 90 percent PS&Es for District review. We will assemble a review package in PDF format and transmit electronically. Following receipt of the District’s consolidated 90 percent design comments, we will hold a design review meeting with District staff to discuss the District’s comments per Task 1.3. We anticipate all comments will be generally within the scope of this proposal.

We will review and update the PS&E package in a timely manner for a final design submittal. We will prepare a response matrix summarizing each District comment on the 90 percent design, identifying how each comment is addressed in the 100 percent submittal.

Subtask 5.3 Constructability Review

Based on the 90 percent draft project plans, MNS will conduct an internal constructability review of the Project prior to the 90 percent design submittal. The goal of this review will be to highlight any special areas of concern from a constructability standpoint. Items typically included in a design level constructability review include:

- Examination of the proposed alignment and anticipated equipment placement and constraints
- Traffic control impacts and maintaining access for residences
- Issues associated with bypass pumping of sewers
- Identification of other potential sources of risk to the District

The constructability review will be completed by an experienced member of the MNS Construction Management team. The recommendations resulting from the constructability review will be considered in the recommendation of proposed pipeline alignments, pipeline installation methods, and in other refinements to the design in an effort to limit risk exposure and minimize change orders during construction; recommendations from these reviews will be incorporated into draft deliverables prior to submittal for District review.

Subtask 5.4 100 Percent Design

MNS will prepare 100 percent PS&Es for District review. We will assemble a review package in PDF format and transmit electronically. Following receipt of the District's consolidated 100 percent design comments, we will coordinate with the District to discuss the comments per task 1.3. We anticipate all comments will be generally within the scope of this proposal.

We will review and update the PS&E package in a timely manner for a final design submittal.

Subtask 5.5 Final Design

We will prepare final PS&Es for the project suitable for public bidding. The final plans and specifications will be stamped and signed by a Professional Engineer registered in the State of California.

We will submit both hard copy and electronic documents upon completion of the work. Electronic formats will include images prepared in PDF format and also electronic files compatible with Microsoft Word, Excel, and AutoCAD, as appropriate. We anticipate delivering all electronic submittals and one paper copy of all documents (or as desired by the District).

MNS assumes the District will provide final reproduction of plans and specifications and will provide to prospective bidders.

Task 6 – Public Outreach Support

MNS, and our subconsultant, DD&A, will provide public outreach support for the Project. A detailed proposal for DD&A's services is provided as an attachment. DD&A will prepare and implement a Public Participation Plan to outline a process to solicit public input regarding the proposed project as described in their attached proposal.

MNS will support the public outreach on an as-needed basis to prepare figures and provide technical information to the Project team for coordination with the public. MNS will also meet with other agencies who have implemented similar systems to assist in developing public outreach coordination strategies. MNS has budgeted 24 hours for the Project Manager, and 16 hours for a Project Engineer to support these efforts.

Task 7 – Environmental Permitting Support

MNS subconsultant, DD&A will provide environmental permitting and support for the Project. A detailed proposal for DD&A's services is provided as an attachment. MNS will support the environmental permitting process by providing project descriptions, site maps, input on project impacts, and other input as needed to support DD&A's permitting effort.

Subtask 7.1 Negative Declaration

DD&A will prepare a Notice of Exemption (NOE) pursuant to Sections 15301 and 15302 of the State CEQA Guidelines. DD&A will prepare a memorandum to accompany the NOE that briefly describes the compliance of the Project with the requirements of CEQA Guideline Sections 15302.

To document that none of the exceptions to the exemption apply, DD&A will also provide a brief environmental impact analysis examining the potential environmental impacts for each of the issue areas listed in the CEQA Appendix G checklist. Should one of the exceptions prove applicable during the course of our initial site investigation, we will contact the District immediately to discuss the appropriate path forward, which may include preparation of an Initial Study and (Mitigated) Negative Declaration, which is not included in this proposal.

Subtask 7.2 Coastal Development Permit

The Project site is within the coastal zone and is subject to Carmel-by-the-Sea’s Local Coastal Program (LCP) and the County of Monterey’s LCP. DD&A will coordinate with both agencies and will prepare one or two Coastal Development Permit (CDP) applications, depending on if one agency defers to the other for the CDP Permit. The application(s) will include all project description information and drawings, information on the Project’s consistency with the California Coastal Act, and all other related CDP application requirements. This scope of work does not include attendance at public hearings or other coordination required in the event a full CDP is required.

Task 8 – Additional As-Needed Services

At the request of the District, a budget has been established to provide additional professional services in support of the Project on an as-needed basis. Budget associated with this task will not be utilized without written authorization from the District. Work will be completed on a mutually agreeable schedule.

Deliverables

The following deliverables will be submitted to the District over the course of this project:

- Kick-off and Design Review Meeting Agendas and Meeting Minutes
- Draft Final, and Final PER
- 60 percent, 90 percent, 100 percent, and Final PS&Es
- Comment Response Forms
- Public Outreach Documentation
- CEQA NOE
- Coastal Development Permit Exemption

Compensation

MNS proposes to perform the base services described herein for a not-to-exceed fee estimate of **\$202,921**. A breakdown by task is provided in the following table. A detailed fee proposal spreadsheet is provided as an attachment. All fees are in accordance with the MNS Standard Fee Schedule, also included as an attachment.

Task	Fee
Task 1 – Project Management, QA/QC, and Meetings	\$18,060
Task 2 – Finalize Preliminary Engineering Report	\$8,098
Task 3 – Site Survey and Utility Research	\$20,965
Task 4 – Geotechnical Investigation	\$23,040
Task 5 – Detailed Design	\$56,735
Task 6 – Public Outreach	\$23,464
Task 7 – Environmental Permitting Support	\$32,558
Task 8 – Additional As-Needed Services	\$20,000
Subtotal	\$202,921

Schedule

MNS will work with the District to complete the Project on a timeline commensurate with District goals. A tentative schedule is presented below. Permitting and public outreach effort are anticipated to be completed concurrently with other tasks and are assumed to not cause Project delays.

Milestone	Duration/Date
Design NTP	September 23, 2021
Final Draft PER	4 Weeks Following NTP
Final PER	1 Week Following Receipt of District Comments
Topographic Survey	6 Weeks Following NTP
Geotechnical Report	10 Weeks Following NTP
60 percent Design Submittal	12 Weeks Following NTP
90 percent Design Submittal	6 Weeks Following 60 percent Review Meeting
100 percent Design Submittal	4 Weeks Following 90 percent Review Meeting
Final Design Submittal	1 Week Following 100 percent Review Meeting

Proposal Assumptions

The following assumptions have been included in development of this scope and fee proposal:

- Acquisition of right-of-way, and/or a grading permit is not included.
- The District will coordinate with the County of Monterey and the City of Carmel by the Sea to determine encroachment permitting requirements.
- Surface hydraulic modeling or storm water facility design is not included.
- No traffic control plans will be prepared by MNS.

Closing

Thank you for the opportunity to submit this proposal. We are excited and look forward to working with the District. Please feel free to contact me with any questions you may have at 805.592.2074 or npanofsky@mnsengineers.com. Thank you for your consideration.

Sincerely,

MNS Engineers, Inc.



Nick Panofsky, PE
Lead Engineer

Attachments:

- Standard Fee Schedule
- Detailed Fee Estimate Spreadsheet
- Geotechnical Proposal
- Environmental Proposal



2021 STANDARD SCHEDULE OF FEES

PROJECT/PROGRAM MANAGEMENT

Principal-In-Charge.....	\$280
Senior Project/Program Manager.....	255
Project/Program Manager.....	225
Assistant Project/Program Manager.....	185
Senior Project Coordinator.....	155
Project Coordinator.....	125

ENGINEERING

Principal Engineer.....	\$240
Lead Engineer.....	215
Supervising Engineer.....	200
Senior Project Engineer.....	190
Project Engineer.....	170
Associate Engineer.....	155
Assistant Engineer.....	140

SURVEYING

Principal Surveyor.....	\$235
Lead Surveyor.....	225
Senior Survey Project Manager.....	205
Supervising Surveyor.....	200
Senior Project Surveyor.....	180
Project Surveyor.....	160
Senior Land Title Analyst.....	155
Associate Project Surveyor.....	150
Assistant Project Surveyor.....	130
Party Chief (PW).....	155
Chainperson (PW).....	135
One-Person Survey Crew (PW).....	185

CONSTRUCTION MANAGEMENT

Principal Construction Manager.....	\$255
Senior Construction Manager.....	235
Senior Resident Engineer.....	225
Resident Engineer.....	210
Structure Representative.....	195
Construction Manager.....	185
Assistant Resident Engineer.....	175
Sr. Construction Inspector (PW).....	165
Construction Inspector (PW).....	156
Office Administrator.....	105

TECHNICAL SUPPORT

CADD Manager.....	\$175
Supervising Technician.....	145
Senior Technician.....	135
Engineering Technician.....	105

ADMINISTRATIVE SUPPORT

Senior Management Analyst.....	\$160
Management Analyst.....	135
IT Technician.....	120
Graphics/Visualization Specialist.....	100
Administrative Assistant.....	80

GOVERNMENT SERVICES

City Engineer.....	\$215
Deputy City Engineer.....	195
Assistant City Engineer.....	180
Plan Check Engineer.....	170
Permit Engineer.....	150
City Inspector.....	135
Senior City Inspector (PW).....	165
City Inspector (PW).....	156
Principal Stormwater Specialist.....	155
Senior Stormwater Specialist.....	140
Stormwater Specialist.....	125
Stormwater Technician.....	115
Building Official.....	175
Senior Building Inspector.....	150
Building Inspector.....	135
Planning Director.....	185
Senior City Planner.....	160
Assistant Planner.....	145
Senior Grant Writer.....	160
Grant Writer.....	135
Associate Grant Writer.....	105
Assistant Grant Writer.....	85

DIRECT EXPENSES

Use of outside consultants as well as copies, blueprints, survey stakes, monuments, computer plots, telephone, travel (out of area) and all similar charges directly connected with the work will be charged at cost plus fifteen percent (15%). Mileage will be charged at the current federal mileage reimbursement rate. Expert Witness services will be charged at three (3) times listed rate.

PREVAILING WAGE RATES

Rates shown with Prevailing Wage "(PW)" annotation are used for field work on projects subject to federal or state prevailing wage law and are subject to increases per DIR.

ANNUAL ESCALATION

Standard fee rates provided for each classification are subject to an annual escalation increase of 3.0% starting January 1, 2022.

OVERTIME

Overtime for non-exempt employees will be charged at 1.5 x hourly rate; overtime for exempt employees and other classification will be charged at 1 x hourly rate.

August 12, 2021

Proposal No. PR 21-119

Revised August 13, 2021

Mr. Nick Panofsky
MNS Engineers
201 N. Calle Cesar Chavez, Suite 300
Santa Barbara, CA 93103

Subject: **Proposal for a Geotechnical Investigation – Design Phase**
Pescadero Road Sewer Replacement Project
Carmel Area Wastewater District (CAWD)
Carmel, California

Dear Mr. Panofsky,

Pacific Crest Engineering Inc. (PCE) is pleased to present our proposed scope of work and fee to perform a geotechnical investigation for the proposed Pescadero Road Sewer Replacement in Carmel, California. This proposal is based on our discussions with you, review of the proposed sewer main alignment (Alternative B of the 2016 DPER) and a visit to the site.

INTRODUCTION

It is our understanding that the proposed project will consist of replacing the existing sewer main with a new main that extends along Pescadero Road from MH N601 south to the terminus of 2nd Avenue at Monte Verde Street, a total distance of 2,200 linear feet. The 2nd Avenue segment will traverse a moderately steep hillside. It is our understanding that open cut trenching is currently planned to install the pipeline, which will range in depth from about 7 to 20 feet.

SCOPE OF WORK

We are proposing a design-phase work scope comprised of literature review, site reconnaissance, subsurface exploration, and laboratory testing to develop geotechnical recommendations to support preparation of final project plans and specifications. Our work will culminate in a design-level Geotechnical Investigation Report which will summarize our findings and present our conclusions and recommendations.

As part of this approach, we propose the following scope of work:

1. Site reconnaissance and review of literature pertinent to the project site, available in our files or provided by your office.

2. A draft site plan map depicting our planned boring locations will be prepared and submitted to the Client for review prior to drilling our test borings.
3. Project coordination of field and laboratory operations.
4. We will mark the proposed test boring locations in white paint, and contact Underground Service Alert (USA) at least 72 hours prior to performing our field investigation. In addition, we will subcontract with a private underground locator to assist in clearing proposed test boring locations.
5. We will prepare and submit an encroachment and soil boring permit application, along with an associated traffic control plan, to the County of Monterey prior to our field investigation.
6. We will prepare a Traffic Control Plan in accordance with Cal Trans MUTC 2003 for field boring work. We will subcontract with an outside traffic control company to provide traffic control during our drilling activities.
7. We will explore, sample, and classify surface and subsurface soils by advancing 5 to 6 test borings at select and accessible locations along the proposed pipeline alignment. The borings will be drilled to depths of approximately 10 to 20 feet. A log of soil, bedrock, and groundwater conditions will be maintained.

Representative (disturbed) soil samples will be obtained at selected depths within each test location. The test holes will be backfilled with soil cuttings and cold patched with asphalt or cement in existing pavement areas. Our work scope and fee estimate does not include restoring the pavement with hot mix asphalt.

8. Laboratory testing of selected soil samples to determine relevant engineering properties. Laboratory testing will include, as applicable moisture content, unit weight, Atterberg Limits, grain size distribution, corrosion potential, and shear strength.
9. Compilation and analysis of collected field and laboratory data gathered in Tasks 1 through 8 and based on this analysis, we will provide our findings, conclusions and recommendations for the design and construction of the sewer main replacement. Our report is expected to include pertinent recommendations applicable to open cut trenching, slope stability, dewatering, excavation, backfilling, E'c values for design of flexible pipe, pipeline external loading on flexible and rigid pipes, utility trench backfill and lateral earth pressures.

This report will also include boring logs indicating the soil profile encountered and a site plan showing the test boring locations. The report will be signed by a Registered Geotechnical Engineer with 31 years of experience within the local area.

We will submit a draft report for one round of team review. We will then incorporate the review comments into a final geotechnical report.

10. Geotechnical review of 90% design drawings for conformance with the recommendations of the geotechnical report.

FEE FOR SERVICES

We propose to perform the scope of work outlined herein on a time and materials basis in accordance with our 2020 Schedule of Fees. We have assumed the work is to be performed as part of a public works project. This requires compliance with public works laws requiring payment of prevailing wages and maintenance of certified payrolls, among others.

Based on our current understanding of the project concept and subject to variation among items, the table below presents a summary of anticipated tasks and their associated fees for completing the geotechnical investigation:

OPINION OF PROBABLE COST				
PROPOSAL NAME: PESCADERO ROAD SEWER MAIN REPLACEMENT				
PROPOSAL DATE: 8/12/2021				
NUMBER OF BORINGS: 5-6				
DEPTH OF BORINGS:10-20 Feet				
PREVAILING WAGE PROJECT				
CATEGORY	PERSONNEL/ITEM	HOURS (FEET)	\$/HOUR (FEET)	COST/ITEM
SITE RECONNAISSANCE & PROJECT COORDINATION BORING SITE MAP	PRINCIPAL ENGINEER	4	180	720
	ASSOCIATE ENGINEER	4	175	700
	STAFF ENGINEER / GEOLOGIST	4	150	600
UTILITY LOCATING PERMIT APPLICATION TRAFFIC CONTROL	TRAFFIC CONTROL PLAN	4	150	600
	TRAFFIC CONTROL (DAILY RATE)	1	1850	1850
	PRIVATE UTILITY LOCATOR	4	360	1440
	ENCROACHMENT PERMIT	4	150	600
	MARK BORING LOCATIONS/USA	4	150	600
TEST BORINGS PREV. WAGE RATES	DRILL RIG - DAILY RATE	1	4000	4000
	STAFF ENGINEER / GEOLOGIST	8	150	1200
LABORATORY ANALYSIS	LUMP SUM			700
ENGINEERING ANALYSIS AND CALCULATIONS REPORT PREPARATION 90% PLAN REVIEW	PRINCIPAL ENGINEER	8	180	1440
	ASSOCIATE ENGINEER\GEOLOGIST	10	175	1750
	STAFF ENGINEER / GEOLOGIST II	6	150	900
	CLERICAL/CERTIFIED PAYROLL	2	90	180
	10% Contingency			1728
TOTAL OF COSTS FOR PROFESSIONAL SERVICES				19008

Based on the work scope outlined above and our understanding of the project objectives, we estimate our fee to perform the geotechnical services described in Tasks 1 through 10, inclusive will not exceed Nineteen Thousand Dollars (\$19,000.00), unless additional services are authorized in writing.

SCHEDULE

We are prepared to commence work immediately upon your authorization. We anticipate tasks 1 through 9 to be completed within the following time frames:

• Project Coordination/Utility Locating	1-2 weeks
• Application and Procurement of Encroachment Permit	1-2 weeks
• Drilling and Laboratory Testing	4 weeks
• Engineering Analysis and DRAFT Report Preparation	2 weeks
• Respond to review comments and final report	1 week after receipt of comments

We therefore estimate the work proposed herein can be completed within 8 to 10 weeks from your authorization to proceed, site access, permit processing, scheduling of exploration equipment, weather and laboratory analysis permitting. Preliminary geotechnical design criteria can be provided to the design team during the course of our investigation.

SCOPING ASSUMPTIONS

Our scope of work and fee assumes the Client understands the following issues:

- a. This scope of work assumes that the District will provide for rights-of-access onto all easements and any private properties that must be crossed to access the proposed drilling sites. Pacific Crest Engineering, Inc. will field mark the proposed test boring locations, notify Underground Service Alert (USA) and hire a Locator Service prior to beginning field work so that public and private underground utilities can be identified and the proposed boring locations cleared. Pacific Crest Engineering, Inc. is not responsible for damage to any utilities not identified and/or not properly marked at the ground surface.
- b. We also assume we will be provided with updated site plans showing existing and proposed utility improvement locations.
- c. Our services will be provided on a "time and expense" basis, in accordance with our 2020 Schedule of Fees. Our fee estimate is based on the available information provided to develop this proposal. Those services not listed, emerging project requirements, preparation for and participation in meetings and presentations (over the four man-hours budgeted in this proposal), and/or the designers request for additional information beyond this scope of services will be considered extra services and will be billed in accordance with our standard rates.

- d. Our scope of work and fee assumes the Client will provide a base topographic map and site plan, with a scale of 1-inch equals 20 feet or larger, prior to initiation of our work.

SERVICES NOT INCLUDED

Our scope of work and fee does not include the following:

- a. Development of design plans, shoring plans or project specifications is specifically excluded from our scope.
- b. Post-report services and construction phase observation, consultation, or testing.
- c. An environmental assessment or investigation for the presence of hazardous or toxic materials. This scope of work and budget assumes that contaminated soil and/or groundwater will not be encountered. If any unusual vapors, odors, or visual contamination are noticed during drilling of any test boring, the boring will be stopped, backfilled with grout and the suspected drill cuttings will be bagged, labeled for future source reference, and provided to the Client for disposal.

AUTHORIZATION

To authorize our firm to provide these services, please send an agreement for professional services and authorization to proceed to our office as soon as possible.

Pacific Crest Engineering Inc. appreciates the opportunity to provide our services, and would be pleased to answer any questions you may have about our proposed scope of work and fee. We can be reached at (831) 722-9446.

Sincerely,

PACIFIC CREST ENGINEERING INC.



Elizabeth M. Mitchell, GE
President/Principal Geotechnical Engineer
GE 2718

August 11, 2021

Nick Panofsky, PE
Senior Project Engineer
MNS Engineers, Inc.

Subject: **Proposal and Cost Estimate for Pescadero Road Sewer Replacement Project**

Dear Mr. Panofsky:

Thank you for providing Denise Duffy & Associates, Inc. (DD&A) with the opportunity to provide environmental services the Pescadero Road Sewer Replacement Project. This proposal assumes the proposed project is that described as Alternative B in the February 19, 2016, memorandum submitted to MNS Engineering, Inc., titled *Biological Alternatives Analysis for the Pescadero Road Sewer Main Replacement Project*. This proposal also assumes that the project will be determined exempt from the California Environmental Quality Act (CEQA) and a Coastal Development Permit. If it is determined that the project is not exempt from either or both environmental authorizations, a contract amendment would be required to address compliance. In addition, this proposal includes a public outreach task for which the scale and schedule for this process are currently unknown. DD&A has provided an estimated level of effort for this task based on our professional experience; however, if additional effort is required to meet the defined goals and objectives of the public outreach scope, a contract amendment would be required.

DD&A provides specialized environmental consultation through a multidisciplinary team of planners and scientists that provide a full range of environmental services. DD&A has extensive experience providing various environmental resource analyses within the project vicinity for over 30 years. DD&A is therefore especially qualified to complete the environmental services as requested for your project.

If the attached scope and budget are acceptable, please sign and return a copy of the attached Authorization to Proceed form. We look forward to performing this work for you.

Sincerely,

A handwritten signature in black ink, appearing to read "Josh Harwayne", with a long horizontal flourish extending to the right.

Josh Harwayne, Senior Project Manager
DENISE DUFFY & ASSOCIATES, INC.
947 Cass St., Suite 5
Monterey, Ca. 93940
(831) 373-4341 ext. 25
jharwayne@ddaplanning.com

Work Plan

Pescadero Road Sewer Replacement Project

INTRODUCTION

The following work program to be performed by DD&A is based on our recent meeting with CAWD and email communication from MNS Engineers.

WORK PLAN

Task 1. Project Initiation

This task includes coordination with project team for project path/approach, scheduling, communication protocol and scoping. This task also includes review of existing project materials and initial contract administration.

Task 2. Environmental Coordination During Design

This task includes coordination and input during the initial design phase to inform alignment and methods regarding environmental and regulatory issues and implications. DD&A will visit the site with the project engineer to evaluate portions of the alignment and to determine preferred approach to the avoidance of impacts and regulatory triggers. DD&A will respond to questions or requests for input from the project team related to environmental aspects of the project as requested.

Task 3. Update the 2016 Alternatives Analysis

This task includes working with the project engineer to finalize the alternatives analysis for use as a baseline document for public outreach. The final document will succinctly outline the rationale for the preferred alternative and demonstrate its efficacy. DD&A will post the finalized document on the project website.

Task 4. Update Alignment-Specific Biology Report

This task will include an analysis of biological impacts of the preferred alternative at 60% design. The focus will be to document the avoidance of impacts sufficient to allow for the project to be exempt from CEQA and a Coastal Development Permit. This report will be a key component of both the Notice of Exemption (NOE) and Coastal Development permit Exemption packages prepared and submitted to the state and local regulators (see Tasks 5 and 6). If requested, DD&A will submit to the project team a Draft Report for review and comment. Upon receipt of comments, DD&A will revise accordingly and finalize the Report.

Task 5. Preparation and Filing of CEQA NOE

This task includes the preparation and submittal of the NOE package to the State Office of Planning and Research. In addition, the NOE will then be filed with the County of Monterey (County) Clerk. If requested, DD&A will submit to the team a Draft NOE package for review and comment. Upon receipt of comments, DD&A will revise accordingly and finalize the package.

Task 6. Preparation and Submittal of Coastal Development Permit Exemption Package

This task includes coordination with both the City of Carmel-by-the-Sea and Monterey County staff to determine the preferred entitlements approach as the project is within both jurisdictions. Once an approach is reviewed and approved by both jurisdictions, DD&A will prepare and submit a Coastal Development Permit Exemption package to one or both. This task will include response to requests for additional information and/or materials as may be necessary. If requested, DD&A will submit to the team a Draft package for review and comment. Upon receipt of comments, DD&A will revise accordingly and finalize the package.

Task 7. Public Outreach

Public outreach and early coordination with interested parties will be an important part of achieving the goals and objectives of the project. In coordination with the project team, DD&A will prepare a mailing/email list of stakeholders. This contact database will be used and updated, as needed, throughout the duration of the project. DD&A will prepare a Public Participation Plan to outline a process to solicit public input regarding the proposed project. DD&A will prepare a draft Plan, which will contain a detailed description of project milestones and information predicted to be relevant in responding to adjacent landowner concerns and questions. The Plan will identify outreach strategies for the key stakeholders. It will outline the public outreach methods that may be considered, including potential meeting types (i.e., site visits/field visits, workshops, small group, one-on-one), periodic project updates for the public, and a project website. It will also include outreach methods for low-income and minority populations, including multi-lingual noticing and translators at public meetings. DD&A will submit a Draft Public Participation Plan for review and comment. Upon receipt of comments, DD&A will revise accordingly and finalize the plan. This scope of work assumes two presentations/community meetings.

This scope of work assumes DD&A will facilitate the meetings and provide all necessary meeting materials, including, but not limited to, agendas, meeting notes, PowerPoint presentations, etc. DD&A will submit drafts of all meeting materials to the project team, as determined necessary, for review and comment prior to public meeting distribution. DD&A will engage with adjacent landowners on an on-going basis as needed to respond to questions/comments and solicitations for information relative to the new sewer connection and pump on their property.

The scale and schedule for this process is unknown at this time. DD&A assumes 80 hours for this effort. If additional time is required to meet the goals and objectives of this task, a contract amendment may be necessary.

Task 8. Meetings

This task includes the participation of DD&A staff at on-site, in-person and virtual meetings, as well as conference calls as needed.

COST ESTIMATE

The tasks required to complete the requested services have been outlined in the Work Plan section of this proposal. This project will be billed on a time and materials basis by task, as shown in the attached budget.

General Assumptions:

Assumptions for specific tasks are provided in the Work Plan above.

SCHEDULE

The project schedule will be determined as part of Project Initiation (Task 1).

Budget

DENISE DUFFY & ASSOCIATES						
TASKS #	Task Description	Senior Project Manager	Associate Environmental Scientist	Assistant Environmental Scientist	Graphics/GIS	Task Total
		\$ 196	\$ 112	\$ 100	\$ 98	
1	Project Initiation	8	4			\$2,016
2	Environmental Coordination	8	4	16	2	\$3,812
3	Alternatives Update	8	4	16		\$3,616
4	Biological Report Update	4	8	16	4	\$3,672
5	CEQA NOE Package	4	8	16		\$3,280
6	Coast Exemption Package	8	24	32	6	\$8,044
7	Public Outreach	40	20	8	12	\$12,056
8	Meetings	24	12	16		\$7,648
<i>Total DDA hours by person</i>		96	80	120	24	
Total DDA cost by person		\$ 18,816	\$ 8,960	\$ 12,000	\$ 2,352	\$42,128

Expenses	
Phone and Fax	\$20.00
Mileage	\$100.00
Total Expenses	\$120.00

TOTAL COST **\$42,248.00**

RESOLUTION 2021-53

A RESOLUTION AUTHORIZING THE GENERAL MANAGER TO ENTER INTO A CONTRACT WITH MNS ENGINEERS, INC. TO PROVIDE DESIGN SERVICES FOR THE PESCADERO CREEK AREA PIPE RELOCATION PROJECT #21-05 IN AN AMOUNT NOT TO EXCEED \$202,921

WHEREAS, the Carmel Area Wastewater District (District) approved the 2021/2022 budget that included funding for the Pescadero Creek Area Pipe Relocation Project consulting work;

WHEREAS, the District received a proposal from MNS Engineers, Inc. for professional engineering services to finalize the preliminary engineering report and prepare the final design documents for the Pescadero Creek Area Pipe Relocation Project;

WHEREAS, in order to proceed with design of the project, the District must execute a contract with MNS Engineers, Inc. to finalize the engineering report and prepare plans and specifications for the project as summarized in their proposal dated September 7, 2021, in the amount of \$202,921; and

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of Carmel Area Wastewater District, hereby authorizes the General Manager to enter into a contract with MNS Engineers, Inc. to finalize the engineering report and prepare plans and specifications for replacement of the pipeline above Pescadero Creek in Carmel-by-the-Sea.

PASSED AND ADOPTED at a regular meeting of the Board of Directors of the Carmel Area Wastewater District duly held on September 30, 2021.

AYES: BOARD MEMBERS:
NOES: BOARD MEMBERS:
ABSENT: BOARD MEMBERS:
ABSTAIN: BOARD MEMBERS:

President of the Board

ATTEST:

Secretary to the Board

STAFF REPORT



To: Board of Directors
 From: Patrick Treanor, Plant Engineer
 Date: September 30, 2021
 Subject: Project #21-01 – WWTP Eucalyptus Pruning

RECOMMENDATION

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

- Adopt a resolution awarding a contract for eucalyptus pruning at the wastewater treatment plant in the amount of \$_____ to the lowest responsive and responsible bidder – _____.
- Authorize a change order budget of \$_____ for as needed trimming work that may arise during the work.
- Authorize the General Manager to sign and execute a contract with _____ to proceed with the work.

DISCUSSION

The board approved Resolution No. 2021-43 on July 29, 2021, authorizing solicitation of bids for Project #21-01. Sealed bids were opened on September 29, 2021, at the Carmel Area Wastewater District (District) office.

During the bid period multiple potential bidders attended a mandatory site visit. Table 1 contains the bid results. The Engineer’s Estimate was \$80,000.

Table 1: Eucalyptus Pruning Bids (Bid Tabulation To Be Provided At Board Meeting)

BIDDER	BID AMOUNT

FUNDING

The CAWD 2021-22 Budget includes \$130,000 for “Plant Tree Trimming” (Account #5982.004) in the Plant Maintenance Operating Budget, which was allotted for the WWTP Eucalyptus Pruning (Project #21-01).

RESOLUTION NO. 2021-54

A RESOLUTION ACCEPTING THE LOWEST RESPONSIBLE AND RESPONSIVE BID FOR THE "WWTP EUCALYPTUS PRUNING" (PROJECT #21-01), AWARDDING A CONTRACT, AND AUTHORIZING A CHANGE ORDER ALLOWANCE NOT TO EXCEED \$TBD (bid opening on 9-29-21)

-oOo-

WHEREAS, the eucalyptus trees around the wastewater treatment plant are in need of trimming; and

WHEREAS, the Board of Directors authorized solicitations of bids for said project in Resolution No. 2021-43; and

WHEREAS, _____ submitted the lowest responsible and responsive bid of \$_____.

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

1. That the Board accepts the bid of the lowest responsible and responsive bidder (i.e. _____) and awards the contract for the "WWTP Eucalyptus Pruning" to said bidder at the bid price of \$_____.
2. That the Board authorizes and directs the General Manager to execute a written contract with the successful bidder and commence tree pruning work.
3. That the Board authorizes the General Manager to execute change orders during construction up to a cumulative amount not to exceed \$_____.

PASSED AND ADOPTED at a regular meeting of the Board of Directors of the Carmel Area Wastewater District duly held on September 30, 2021, by the following vote:

AYES: BOARD MEMBERS:
 NOES: BOARD MEMBERS:
 ABSENT: BOARD MEMBERS:
 ABSTAIN: BOARD MEMBERS:

President of the Board

ATTEST:

Secretary to the Board

STAFF REPORT



To: Board of Directors
From: Rachél Lather, Principal Engineer
Date: September 30, 2021
Subject: Scenic Road Pipe Bursting Project
Project-Ocean to Bay #20-08 Amendment #2

RECOMMENDATION

It is recommended that the Board of Directors authorize the General Manager to amend a contract with MNS Engineers, Inc. to provide additional environmental compliance support in the amount of \$47,577.00 resulting in a total contract amount of \$232,952.

DISCUSSION

The Scenic Road collection line is a high priority for rehabilitation due to the condition of the pipeline and its location with respect to the Pacific Ocean. The District Board of Directors approved Resolution #21-11 on February 25, 2021, in the amount of \$152,685 authorizing the General Manager to enter into a contract with MNS Engineers, Inc. to provide design services for the project. On August 26, 2021, the Board of Directors approved Resolution #21-48 in the amount of \$32,690, approving Amendment #1 to authorize utility location services to be added to the contract.

The gravity sewer pipe is expected to be replaced using the pipe-bursting construction technique. This method pushes a new High-Density Polyethylene (HDPE) pipe through the existing pipe and can cause some localized heaving of soil in the vicinity of the pipeline. Even though there is less excavation with this technique, excavation of pits to allow launching of the pipe bursting equipment and excavation of private sewer laterals is required.

Rincon Consultants, Inc. (Rincon) was selected to complete the environmental documents and permitting required for this project. During preparation of the Categorical Exemption, Rincon determined that there are potential cultural resources along the southern end of the pipeline alignment that could be encountered in areas where pits and laterals are excavated. This will require further studies, the preparation of a Cultural Resources letter report and potential preparation of an Initial Study/Negative Declaration. These items are outside the scope of the approved contract and will require a contract amendment.

The attached proposal from MNS Engineers, Inc. outlines the specific tasks associated with obtaining the utility location information for a total cost of \$47,577.

FUNDING

The 2021/2022 budget for this project is \$1,200,000.

Attachment 1: MNS Engineers, Inc. Proposal Amendment #2 \$47,577

Attachment 2: Resolution #2021-55 Authorizing the General Manager to Amend
MNS Contract for environmental compliance



811 El Capitan Way Suite 130, San Luis Obispo, CA 93401
Ph. (805) 778-0326 / F. (805) 787-0437

September 16, 2021

Ms. Rachél Lather, M.S., P.E.
Carmel Area Wastewater District
3945 Rio Road
Carmel-By-The-Sea CA 93923

Subject: Proposal for Professional Engineering Services – Scenic Drive Sewer Main Replacement Project, Amendment No. 2, Additional Environmental Compliance Support

Dear Ms. Lather:

Thank you for the opportunity to submit this amendment request for additional services for the Scenic Drive Sewer Main Replacement Project (Project) for the Carmel Area Wastewater District (District). During preparation of the categorical exemption report and during subsequent discussions with MNS and CAWD, the need for additional environmental analysis was identified based on known archaeological resources in the Project area.

Project Understanding

MNS is currently developing the design for replacement of approximately 4,950 linear feet (LF) of existing 6-inch diameter vitrified clay pipe (VCP) gravity sewer main with a new 8-inch high-density polyethylene (HDPE) sewer main located along Scenic Road from manhole O666 south of Ocean Avenue (Ave) to the Bay & Scenic Lift Station, 750-LF west of Martin Way in the community of Carmel by the Sea and unincorporated Monterey County. The work also includes replacement of approximately 30-LF of 6-inch steel force main with new 6-inch pipe at the intersection of Santa Lucia Ave and San Antonio Ave.

The cultural resources records search performed by our subconsultant, Rincon Consultants (Rincon), included in our original scope resulted in the identification of a large archaeological site (P-27-000152 and P-27-001323) which intersects the Project alignment. Additional work is recommended to appropriately address potential impacts to this site.

Project Scope

MNS proposes to facilitate additional support services under Task 5 as described below.

Task 6 – Environmental Permitting Support

MNS subconsultant, Rincon, will provide environmental permitting and support for the Project. A detailed proposal for Rincon services is provided as an attachment.

Subtask 5.3 Cultural Resources Support

Rincon will prepare a Cultural Resources Letter Report to address P-27-000152 and P-27-001323 and to outline recommended project design features and conditions of approval to avoid potential impacts to archaeological resources and provide additional services as described in the attached proposal letter.

Subtask 5.4 Initial Study-Mitigated Negative Declaration (IS-MND) (Optional)

If, upon completion of the scope described in Task 5.3, it is determined that a higher level of CEQA review is required, Rincon will prepare an IS-MND for the Project and provide additional services as described in the attached proposal letter. MNS will support the environmental permitting process by providing project descriptions, site maps, input on project impacts, and other input as needed to support Rincon's permitting effort.

Deliverables

September 16, 2021

Page 2 of 2

- Cultural Resources Letter Report
- IS-MND Project Description (Optional)
- Administrative Draft IS-MND (Optional)
- Second Administrative Draft IS-MND (Optional)
- Public Review Draft IS-MND (Optional)
- Final IS-MND (Optional)

Compensation

MNS proposes to perform the additional base services described herein as described in the following table. A detailed fee proposal spreadsheet is provided as an attachment. All fees are in accordance with the MNS Standard Fee Schedule, provided with our original proposal.

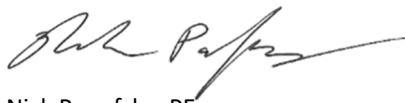
Task	Fee
Task 5.3 – Cultural Resources Support	\$10,729
Task 5.4 – IS-MND (Optional)	\$36,848
Subtotal	\$47,577

Closing

Thank you for the opportunity to submit this amendment proposal. We are excited and look forward to continuing to work with the District. Please feel free to contact me with any questions you may have at 805.592.2074 or npanofsky@mnsengineers.com. Thank you for your consideration.

Sincerely,

MNS Engineers, Inc.



Nick Panofsky, PE
Lead Engineer

Attachments:

Rincon Consultants Proposal

Detailed Fee Spreadsheet

September 10, 2021
Project No: 20-10654

Nick Panofsky, PE, Lead Engineer
MNS Engineers, Inc.
811 El Capitan Way, Suite 130
San Luis Obispo, California 93401
Via email: npanofsky@mnsengineers.com

Subject: Scope Amendment Request for the Carmel Area Wastewater District Scenic Road Pipeline Replacement Project, Carmel-by-the-Sea, California

Dear Mr. Panofsky:

The purpose of this letter is to request an amendment to the March 10, 2021 contract scope of work and budget between Rincon Consultants, Inc. (Rincon) and MNS Engineers for environmental services for the Carmel Area Wastewater District (CAWD) Scenic Road Pipeline Replacement Project. This proposal would add services to our existing contract scope of work to:

- Provide additional support related to identified cultural resources on the site, including preparation of a Cultural Resources Letter report and Native American consultation support;
- Prepare an Initial Study with Mitigated Negative Declaration (IS-MND), if it is determined that a Categorical Exemption (CE) is no longer appropriate; and
- Continue to provide project management and oversight.

The need for this additional environmental analysis was identified during preparation of the CE Report and during subsequent discussions with MNS and CAWD. The specific additional scope tasks associated with this request, as well as the total budget amendment request, are described in detail below.

SCOPE OF WORK

Task 1. Project Management, Meetings, and QA/QC

This task includes additional staff time for project management and coordination for the duration of the project, exclusive of management that may be required for Task 5, if authorized.

(New) Task 4. Cultural Resources Support

The cultural resources records search included in our original scope resulted in the identification of a large archaeological site (P-27-000152 and P-27-001323) that intersects the project alignment. Rincon will prepare a Cultural Resources Letter Report to address P-27-000152 and P-27-001323 and to outline recommended project design features and conditions of approval to avoid potential impacts to archaeological resources.

The letter report will include a project description, background research results, a description of known cultural resources, and applicable figures. The report will be submitted digitally to MNS and CAWD for review and approval. Rincon assumes one round of consolidated comments from MNS and CAWD. Once reviewed, digital copies of the final report will be prepared and submitted.

Additionally, Rincon understands CAWD intends to conduct consultation meetings with local Native Americans to discuss the proposed project and its potential impacts on the archaeological resources previously recorded at Carmel Point. Rincon will draft up to two formal letters and up to four emails and one Rincon archaeologist will participate in up to two meetings with CAWD and local Native Americans. Rincon assumes any meetings held will be virtual.

(New) Task 5. Initial Study-Mitigated Negative Declaration

If, upon completion of the informal consultation described in Task 1, it is determined that a higher level of CEQA review is required, Rincon will prepare an IS-MND for the project. The major tasks in the preparation of the IS-MND are described below.

1. **IS-MND Project Description.** Rincon will prepare an internal review draft IS-MND Project Description. This will be based upon the CE project description already prepared, but bolstered to provide additional detail in coordination with MNS and CAWD. The Project Description will be submitted in Word format. Rincon assumes one round of review of the Project Description by CAWD staff prior to conducting the analysis described in subsequent tasks. Upon approval of the Project Description, it will be relied upon by the Rincon for evaluation purposes.
2. **Administrative Draft IS-MND.** After CAWD staff review and approval of the project description, Rincon will prepare an internal review (Administrative) Draft Initial Study which documents existing conditions, project impacts (if any), mitigation measures, and resulting level of significance for each of the topical areas required under CEQA. Key issues are anticipated to include Biological Resources, Cultural Resources, and Noise. Each of these key issue areas are described briefly below.
 - a. The *Biological Resources* analysis will include a literature/database review along with review of aerial photographs, topographic maps, and other readily available literature regarding biological resources present in the project area. The analysis will also rely on a field reconnaissance survey previously completed in support of the CE. The identification of potentially suitable habitat for special-status species will be based on a suitability analysis-level only and does not include definitive surveys for the presence or absence of any species that may be present, unless incidental direct observations during the site visit confirm presence of special-status species. Rincon will summarize the findings of the literature review and field survey in the IS-MND with an impacts analysis and recommended mitigation measures to reduce impacts to biological resources resulting from the proposed project to a less than significant level.
 - b. The *Cultural Resources* and *Tribal Cultural Resources* analyses will summarize the Cultural Resources Letter Report and Native American consultation. If required, mitigation measures will be described.
 - c. The *Noise* analysis will focus on evaluating temporary impacts associated with project construction because long-term maintenance of the project would not result in a substantial permanent increase in existing ambient noise. The analysis of temporary noise and vibration

impacts associated with construction will be based upon typical construction noise and vibration levels and standard noise and vibration attenuation factors and will utilize the Federal Highway Administration's Roadway Construction Noise Model. Noise and vibration levels associated with construction activities will be quantified and projected at the nearest sensitive receptors. Construction noise analysis will also evaluate the temporary impacts associated with delivery and material truck trips on haul routes. Impacts associated with haul truck traffic will be assessed using standard attenuation measures. The exposure of nearby sensitive receptors to construction noise will be evaluated against relevant thresholds. Mitigation measures will be developed to address potentially significant impacts, if any are identified.

We assume comments on Administrative Draft IS-MND (and its associated appendices) will be provided in a consolidated, electronic, and editable format. The Administrative Draft IS-MND will be submitted in Microsoft Word format.

3. **Second Administrative Draft IS-MND.** Rincon will respond to CAWD comments on the Administrative Draft IS-MND. This document will be submitted in Microsoft Word with revisions shown in track changes. If additional technical analysis is warranted based on comments, then additional scope and fee may be required.
4. **Public Review Draft IS-MND.** Rincon will respond to CAWD comments on the Second Administrative Draft IS-MND and prepare the Public Review Draft IS-MND. We assume comments on the Second Administrative Draft will be provided in a consolidated, electronic, and editable format. To maintain momentum in the project schedule and provide cost efficiency, we assume CAWD comments will focus on any new content in the previous version of the IS-MND, and new comments on previously submitted content will be minimal.

Rincon will prepare the Notice of Completion (NOC) and Notice of Intent (NOI) to Adopt an IS-MND and file the notices and IS-MND with the State Clearinghouse and County Clerk. CAWD will be responsible for payment of County Clerk fees. CAWD will be responsible for other noticing required under CEQA, including coordination and payment for any newspaper notices. However, Rincon can assist with these tasks for an additional fee on a time and materials basis. We will provide an electronic (PDF) copy of the Public Review Draft IS-MND for posting on the CAWD website.

5. **Responses to Comments/Administrative Final IS-MND.** Upon receipt of public comments on the Draft IS-MND, Rincon will prepare draft responses to comments and an Administrative Final IS-MND for review by CAWD. This scope of work assumes up to five comment letters will be received, including one lengthy (over five pages) and/or substantive letter, which can be adequately responded to in a maximum of 20 professional staff hours. The actual level of effort required to respond will depend on the length, detail, and sophistication of the comments, in addition to the number of letters received. We reserve the right to reevaluate the effort level and request a scope amendment upon close of the public comment period.
6. **Final IS-MND and MMRP.** Upon receipt of comments on the Administrative Final IS-MND, we will incorporate changes and prepare the Final IS-MND. This task will also include preparation of the Mitigation Monitoring and Reporting Program (MMRP), which will include a list of mitigation measures, monitoring timing, and responsibility. The Final IS-MND will be submitted electronically. If

the project is approved, Rincon will prepare a Notice of Determination (NOD) for CAWD to file with the County Clerk. CAWD will be responsible for payment of County Clerk and California Department of Fish & Wildlife (CDFW) CEQA fees.

7. **Public Hearing.** Rincon's Project Manager will attend one public hearing on the project, which may include a CAWD Board of Directors hearing to consider adoption of the IS-MND and approval of the project. If desired, we will make a presentation summarizing the environmental review process and IS-MND conclusions. We assume attendance will be virtual.
8. **IS-MND Project Management.** This task includes management and coordination through the duration of the IS-MND, including coordination with CAWD; project oversight; budget and schedule management; and project accounting including billing and accounts receivable efforts.

Schedule

Cultural Resources Support. Rincon will submit the draft cultural resources memorandum and bolstered CE memorandum within four weeks of any meetings with local Native Americans.

IS-MND. If an IS-MND is required, the anticipated schedule would be as follows:

- **IS-MND Project Description.** Rincon will submit the draft IS-MND Project Description in electronic form within two weeks of authorization to prepare the IS-MND.
- **Administrative Draft IS-MND.** Rincon will submit the Administrative Draft IS-MND in electronic form within six weeks of CAWD approval of the project description.
- **Second Administrative Draft IS-MND.** Rincon will submit the Second Administrative Draft IS-MND in electronic form within two weeks of receipt of all comments on the first Administrative Draft IS-MND.
- **Public Review Draft IS-MND.** The Public Review Draft IS-MND will be completed within two weeks of receipt of CAWD comments on the Second Administrative Draft IS-MND.
- **Final IS-MND.** The Administrative Draft Final IS-MND will be completed three weeks after receipt of all written comments received during the review period, and will consist of the comments, responses, and corrections to the Draft IS-MND, if any are warranted. We will submit the Final IS-MND, including the MMRP, within one week of receipt of CAWD comments on the draft responses and Administrative Draft Final IS-MND.

Cost

The estimated cost for completion of the cultural resources support task and additional project management is **\$8,860**. If an IS-MND is required, the cost would be an additional **\$30,703**. The IS-MND budget would only be utilized upon additional authorization by CAWD staff, after determination that an IS-MND is required. A breakdown of cost by task is provided at the end of this amendment request.

If you have any questions regarding this request, please do not hesitate to contact us.

Sincerely,

Rincon Consultants, Inc.



Nicole West
Project Manager



Megan Jones, MPP
Principal

CAWD Scenic Road Pipeline Replacement Project Scope Amendment
Request Cost Estimate

Task	Rate	Hours	Labor Budget
Task 1: Project Management, Meetings and QA/QC			
		12.00	2,295.00
Principal I	220.00	3.00	660.00
Supervisor Planner I	195.00	8.00	1,560.00
Clerical/Administrative Assistant I	75.00	1.00	75.00
(New) Task 4: Cultural Resources Support			
		44.00	6,565.00
Principal I	220.00	5.00	1,100.00
Supervisor Archaeologist I	195.00	6.00	1,170.00
Supervisor Planner I	195.00	7.00	1,365.00
GIS/CADD Specialist II	125.00	2.00	250.00
Archaeologist II	115.00	16.00	1,840.00
Planner I	105.00	8.00	840.00
(New) Task 5: IS-MND			
		205.00	30,703.00
Principal I	220.00	23.00	5,060.00
Supervisor Biologist I	195.00	4.00	780.00
Supervisor Archaeologist I	195.00	4.00	780.00
Supervisor Planner I	195.00	48.00	9,360.00
Senior Biologist I	160.00	16.00	2,560.00
Planner IV	145.00	10.00	1,450.00
Archaeologist III	130.00	10.00	1,300.00
Planner III	130.00	6.00	780.00
GIS/CADD Specialist II	125.00	9.00	1,125.00
Planner I	105.00	58.00	6,090.00
Production Specialist I	88.00	11.00	968.00
Clerical/Administrative Assistant I	75.00	6.00	450.00
Amendment Total		261.00	39,563.00

Carmel Area Wastewater District
 Scenic Drive Sewer Main Replacement - Amendment No. 2



		PM	ENGINE	ADMIN	Total Resource Hours	Total Hours* Rates	SUBCONSULTANTS						
		Lead Engineer - NP	Project Engineer - MB	Administrative Analyst			Subconsultant Participation	Rincon Consultants	Total Subconsultant Costs				
	2021 Rate	\$215	\$170	\$110									
5 – Environmental Permitting Support	Task 5						Task 5			Task 5			
5.3 Cultural Resources Support	Task 5.1	2		1	3	\$540	Task 5.1	\$8,860	\$8,860	Task 5.1	\$540	\$10,189	\$10,729
5.4 Initial Study-Mitigated Negative Declaration (IS-MND) (Optional)	Task 7.2	4	4		8	\$1,540	Task 7.2	\$30,703	\$30,703	Task 7.2	\$1,540	\$35,308	\$36,848
	Task 5 Subtotal	6	4	1	11	\$2,080		\$39,563	\$39,563		Task 5 Subtotal		\$47,577
Sub-Total	Hours	6	4	1	11	\$2,080	Sub-Total	\$39,563	\$39,563	Grand Total	\$2,080	\$45,497	\$47,577
	Cost	\$1,290	\$680	\$110									

RESOLUTION 2021-55

A RESOLUTION AUTHORIZING THE GENERAL MANAGER TO AMEND A
CONTRACT WITH MNS ENGINEERS, INC TO PROVIDE ADDITIONAL
ENVIRONMENTAL COMPLIANCE SERVICES FOR THE SCENIC ROAD PIPE
BURSTING OCEAN TO BAY
PROJECT-#20-08 AMENDMENT #2 NOT TO EXCEED \$47,577

WHEREAS, the District approved the 2021/2022 budget that included funding for the Scenic Road Pipe Bursting Project consulting work;

WHEREAS, the District approved a contract with MNS Engineers, Inc. for professional engineering services to provide construction engineering services for the Scenic Road Pipe Bursting Project in the amount of \$152,685 and on August 26, 2021 approved a contract amendment #1 in the amount of \$32,690;

WHEREAS, in order to finalize environmental permitting of the project, the District needs additional services from MNS Engineers, Inc. for the project as summarized in their proposal dated September 16, 2021, to include cultural resources research and potential development of an Initial Study/ Mitigated Negative Declaration for the project.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of Carmel Area Wastewater District, hereby authorizes the General Manager to amend a contract Amendment #2 with MNS Engineers, Inc. to provide environmental compliance services for the project in the amount of \$47,577 for a total not to exceed contract amount of \$232,952.

PASSED AND ADOPTED at a regular meeting of the Board of Directors of the Carmel Area Wastewater District duly held on September 30, 2021.

AYES: BOARD MEMBERS:

NOES: BOARD MEMBERS:

ABSENT: BOARD MEMBERS:

ABSTAIN: BOARD MEMBERS:

President of the Board

ATTEST:

Secretary to the Board

STAFF REPORT



To: Board of Directors

From: Barbara Buikema, GM

Date: September 30, 2021

Subject: Authorizing Continued Remote Teleconference Meetings Through October 30, 2021

RECOMMENDATION

It is recommended that the Board of Directors proclaim a local emergency and authorize remote teleconference meetings for the period October 1 through October 30, 2021.

DISCUSSION

Since March 2020 when Governor Newsom issued a series of Executive Orders (N-25-20, N-29-20, N-35-20) the State of California has been under a State of Emergency aimed at containing COVID-19. The Executive Order modified certain requirements created by the Ralph M. Brown Act (Brown Act) or the state's local agency public meetings law. The District has been successfully operating under these conditions since it went into effect.

On June 11, 2021, the Governor issued Executive Order N-08-21 which rescinds the modifications made to the Brown Act effective September 30, 2021. After that date, agencies are required to observe all the usual Brown Act requirements as they existed prior to issuance of the orders. However, after discussions with the California Special District's Association (CSDA), the Governor's office, and other stakeholders, the Governor's office modified its approach and Assembly Bill 361 was introduced in February 2021 and provides local agencies with the ability to meet remotely during proclaimed state emergencies under modified Brown Act requirements, similar in many ways to the rules and procedures established by the Governor's Executive Orders. Specifically, AB361 suspends the requirements located in Government Code, section 54953.

In short this means that during a state of emergency, under specified circumstances, local agencies can meet pursuant to modified Brown Act requirements.

Essentially, AB 361 extends public meeting teleconferencing until January 1, 2024. With the Delta variant leading to a rise of cases in California, it allows local governments to continue to conduct virtual meetings as long as there is a state proclaimed state of emergency, but it will not be quite as flexible as it had been under the Executive Order. It requires local officials to find that meeting in person would present an imminent safety risk to attendees. The key difference between Executive Order N-29-20 and AB 361 is that AB361 requires a public comment period where the public can address the legislative body directly. It prohibits the board from limiting public comments only to those submitted in advance and specifies that the board must provide an opportunity for the public to comment in real time.

Local governments must reconsider the exemption every 30 days to ensure that the state of emergency proceeds and that local circumstances maintain that a health/safety risk exists. Essentially, the continued exemption of the Brown Act is dependent on when the State COVID-19 state of emergency ends.

CAWD has been open to the public for several months with a type of hybrid whereby the Board and legal counsel are in the board room and some staff members are remote. Staff recommends that we continue to operate in this manner with the public asked to utilize ZOOM.

Staff is asking the board to approve continuance of open in-person meetings for Board and referral of the public to the ZOOM link. Please note that we have also found participants prefer to use ZOOM rather than making the trip to our offices – it's very convenient to sign on from home.

FUNDING – No Impact

RESOLUTION NO. 2021-56

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE CARMEL AREA WASTEWATER DISTRICT PROCLAIMING A LOCAL EMERGENCY, RATIFYING THE PROCLAMATION OF A STATE OF EMERGENCY BY GOVERNOR'S ORDER #N-25-20 DATED MARCH 4, 2020, AND AUTHORIZING REMOTE TELECONFERENCE MEETINGS OF THE LEGISLATIVE BODIES OF CARMEL AREA WASTEWATER DISTRICT FOR THE PERIOD OCTOBER 1 THROUGH OCTOBER 30, 2021, PURSUANT TO BROWN ACT PROVISIONS.

WHEREAS, the Carmel Area Wastewater District is committed to preserving and nurturing public access and participation in meetings of the Board of Directors; and

WHEREAS, all meetings of Carmel Area Wastewater District's legislative bodies are open and public, as required by the Ralph M. Brown Act (Cal. Gov. Code 54950 – 54963), so that any member of the public may attend, participate, and watch the District's legislative bodies conduct their business; and

WHEREAS, the Brown Act, Government Code section 54953(e), makes provisions for remote teleconferencing participation in meetings by members of a legislative body, without compliance with the requirements of Government Code section 54953(b)(3), subject to the existence of certain conditions; and

WHEREAS, a required condition is that a state of emergency is declared by the Governor pursuant to Government Code section 8625, proclaiming the existence of conditions of disaster or of extreme peril to the safety of persons and property within the state caused by conditions as described in Government Code section 8558; and

WHEREAS, a proclamation is made when there is an actual incident, threat of disaster, or extreme peril to the safety of persons and property within the jurisdictions that are within the District's boundaries, caused by natural, technological, or human-caused disasters; and

WHEREAS, it is further required that state or local officials have imposed or recommended measures to promote social distancing, or, the legislative body meeting in person would present imminent risks to the health and safety of attendees; and

WHEREAS, such conditions now exist in the District, specifically, a State of Emergency has been proclaimed – Governor's order #N-25-20 dated March 4, 2020; and

WHEREAS, a State of Emergency exists in California due to the threat of COVID-19 and despite sustained efforts, the virus remains a threat, and further efforts to control the spread of the virus to reduce and minimize the risk of infection are needed; and

WHEREAS, the Board of Directors does hereby find that due to threat from the COVID-19 virus, and, California Occupational Safety & Health Administration (Cal/OSHA) COVID-19 Prevention Standards, AND, the District's written COVID-19 Prevention Policy has caused, and will continue to cause, conditions of peril to the safety of persons within the District that are likely to be beyond the control of services, personnel, equipment, and facilities of the District, and desires to proclaim a local emergency and ratify the proclamation of state of emergency by the Governor of the State of California; and

WHEREAS, as a consequence of the local emergency, the Board of Directors does hereby find that the legislative bodies of Carmel Area Wastewater District shall conduct their meetings without compliance with paragraph (3) of subdivision (b) of Government Code section 54953, as authorized by subdivision (e) of section 54953, and that such legislative bodies shall comply with the requirements to provide the public with access to the meetings as prescribed in paragraph (2) of subdivision (e) of section 54953; and

WHEREAS, the District is holding public meetings but requires the public to use ZOOM for access.

NOW, THEREFORE, THE BOARD OF DIRECTORS OF CARMEL AREA WASTEWATER DISTRICT DOES HEREBY RESOLVE AS FOLLOWS:

Section 1. Recitals. The Recitals set forth above are true and correct and are incorporated into this Resolution by this reference.

Section 2. Proclamation of Local Emergency. The Board hereby proclaims that a local emergency now exists throughout the District, and meeting in person with members of the public or staff would present a risk of infection to all present in a meeting.

Section 3. Ratification of Governor's Proclamation of a State of Emergency. The Board hereby ratifies the Governor of the State of California's Proclamation of State of Emergency, effective as of its issuance date of March 4, 2020.

Section 4. Remote Teleconference Meetings. The General Manager and legislative body of the Carmel Area Wastewater District are hereby authorized and directed to take all actions necessary to carry out the intent and purpose of this resolution including, conducting open and public meetings in accordance with Government Code section 54953(e) and other applicable provisions of the Brown Act.

Section 5. Effective Date of Resolution. This Resolution shall take effect immediately upon its adoption and shall be effective until the earlier of (i) October 30, 2021, or such time the Board of Directors adopts a subsequent resolution in accordance with Government Code section 54953(e)(3) to extend the time during which the legislative bodies of Carmel Area Wastewater District may continue to teleconference without compliance with paragraph (3) of subdivision (b) of section 54953.

PASSED AND ADOPTED by the Board of Directors of Carmel Area Wastewater District, this 30th day of September 30, 2021, by the following vote:

AYES: BOARD MEMBERS:

NOES: BOARD MEMBERS:

ABSENT: BOARD MEMBERS:

ABSTAIN: BOARD MEMBERS:

Board President

Secretary to the Board

Other Items & Information/Discussion

STAFF REPORT



To: Board of Directors
From: Barbara Buikema, General Manager
Date: September 30, 2021
Subject: Fall 2021 Newsletter Draft

RECOMMENDATION

For the Board to approve a motion authorizing staff to send the newsletter draft to the consultant for the final document and printing.

DISCUSSION

The Board has given instruction that the newsletter is to be presented to the Board for review prior to its publication. Attached is the two page draft for the Fall issue.

FINANCIAL IMPACT

The newsletter budget for 2021-22 is \$34,000.

110 Years

CAWD Connections



"Protecting your health and the environment since 1908"

CONSUMER NEWS FROM YOUR CARMEL AREA WASTEWATER DISTRICT

FALL/WINTER 2021

15-year master plan update

Phase Two construction underway

With design and permitting complete, Phase Two construction of CAWD's Capital Improvement Projects 15-year Master Plan is now underway. Over the next year and a half, we will be upgrading outdated systems, and replacing circa 1970-1980s equipment that is past its useful life and is no longer cost-effective to maintain.

"Phase Two will ensure efficient and reliable operation of our community's treatment plant for the next 30 years," said CAWD Principal Plant Engineer Patrick Treanor. "New technologies, equipment, and electrical systems will minimize risk, increase reliability, save energy, and greatly reduce staff time currently being spent on upkeep of equipment which is 40 to 50 years old."

Making every dollar count

Phase One, completed in 2018, rehabilitated or replaced approximately half of the plant's operational systems. Phase Two will upgrade the five remaining areas: our headworks, disinfection, influent, effluent, and digesters/sludge holding systems. The capital improvements projects will

mitigate risk of failure for critical equipment so the plant can continue to function without issue and meet regulatory requirements.

"In Phase Two we are using the same successful strategy that allowed us to complete Phase One on time, well within budget, and with many more improvements than we had originally planned," said Patrick. "Our comprehensive assessments, detailed design, and careful day-to-day construction management will ensure that we get the highest possible return on our community's investment."

Please watch your newsletter for updates on Phase Two progress. To view the Capital Improvement Projects 15-year Master Plan, please visit cawd.org.



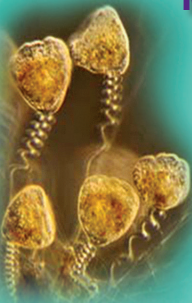
Phase 2 includes replacement of our community's 40-year-old wastewater intake pumps, which are past their useful life and no longer cost-effective to maintain. This will greatly reduce the labor required to keep the pumps running, freeing up staff time for other important tasks.

MICROORGANISM OF THE MONTH

MEET "CHUCK" *CARCHESIUM!*

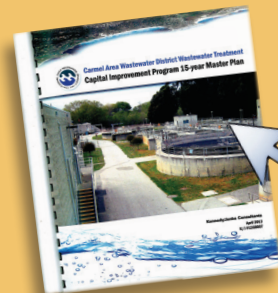
Chuck is one of the multitudes of microbes that clean our community's wastewater at CAWD. Our giant blowers oxygenate the wastewater in our activated sludge system to keep Chuck and his pals thriving. In this giant aquarium "ecosystem," bacteria and fungi eat dissolved organic matter, and one-celled protozoa like *Carchesium* eat the bacteria and each other. About 95 percent of the microbes in our system are bacteria, 4 percent are one-celled microbes like Chuck, and 1 percent are multicellular.

Carchesium is a ciliate, a large and diverse phylum that possess hair-like, beating cilia that help them move and capture food. As a colonial microbe, Chuck shares nutrients (Cont. on flip side)



Carchesium microbes can recoil their spring-like sheaths at astounding speed to capture prey and get out of harm's way.

Photo: Sorbonne University Life Sciences



View the master plan for Phase Two

Visit our home page at cawd.org to find the detailed Capital Improvement Projects 15-year Master Plan for our community's treatment plant.

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Permit No. 30

Carmel Area Wastewater District
3945 Rio Road
Carmel, CA 93923
831/624-1248





Tree trimming scheduled

If you live in Mission Field or Carmel Meadows, you may be able to see the eucalyptus trees that screen the perimeter of the CAWD treatment plant. This fall, after all bird nesting is concluded, we will be trimming the trees to remove dead branches and ensure the safety of our staff.

Planted in the 1970s as a fast-growing screening plant, the non-native Australian blue gum eucalyptus are now over 100 feet tall (they can grow up to eight feet each year).

With increasing fires in California, the species is being removed from many areas because its aromatic oils are highly combustible, and the tree also produces large amounts of flammable debris. CAWD is implementing a long-term plan to replace the trees with native, firesafe riparian species such as willows and cottonwoods. This will be an incremental process to ensure continual buffer screening for nearby neighborhoods.



Carmel Area Wastewater District

3945 Rio Road, Carmel, CA 93923
(831) 624-1248 ■ cawd.org

Free 24-hour sewer back-up service: Call 624-1248; after 5 pm, please call Carmel Police Department at 624-6403. If water is backing up into your tub or toilet, it is an emergency. Call us immediately, day or night!

CAWD is a special district dedicated to protecting public health and the environment with the cost-effective collection and treatment of wastewater and the return of clean water to the environment.

We invite the public to attend CAWD board meetings, held the last Thursday of each month at 9:00 am at the CAWD office.

Board of Directors

Greg D'Ambrosio Charlotte Townsend
Michael Rachel Ken White
Robert Siegfried

General Manager
Barbara Buikema

"Bug of the Month" © Anne Muraski 201

CRFREE update

CAWD continues to work diligently with Monterey County and participating agencies to move forward on the Carmel River Floodplain Restoration and Environmental Enhancement Project (CRFREE). The project is designed to restore habitat and reduce flood risk to homes and property inside the floodplain.

We have nearly completed the engineering design to underground our 180-foot-long outfall and sewage pipelines that currently cross above the south arm of Carmel River Lagoon. The undergrounding is necessary to safeguard the lagoon, Carmel River State Beach, and nearshore waters from sewage spills, because CRFREE will increase water velocity and the risk of debris strikes on existing pipelines.

The California Coastal Commission has approved the undergrounding project. California State Parks is providing a property easement for construction, and we will soon have our permit from the Army Corps of Engineers. With agreements falling into place, construction could begin before the end of the year. Currently, we are waiting for Monterey County to complete the memorandum of understanding for the undergrounding.

"CAWD fully supports CRFREE, and we also take very seriously our responsibility to protect human health and the environment, as well as to advocate for our customers," said CAWD General Manager Barbara Buikema. "We have been negotiating with Monterey County to reach an agreement that safeguards the lagoon and protects CAWD customers from being unfairly burdened by the cost of the undergrounding."

The CAWD undergrounding design and EIR will be part of Monterey County's \$26 million FEMA grant application to fund CRFREE, of which \$5.6 million is slated for the CAWD project. We thank Big Sur Land Trust for facilitating negotiations, as well as the \$750,000 California Coastal Conservancy grant that paid for the design and environmental impact report.



The CAWD pipeline undergrounding project will safeguard Carmel River State Beach (shown here), the lagoon, and Carmel Bay from sewage spills. Photo: weekendsherpa.com

Microorganism (Cont. from page one)

with the colony. Under the microscope, the colony looks like a bouquet of tulips, with the separate flowers bouncing this way and that on their stems to capture bacteria. The individuals contract their stalks at lightning speed to capture prey, causing their sheaths to coil like a spring.

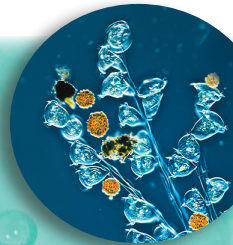
Carchesium's cousin, *Vorticella*, has been clocked contracting in five milliseconds (it takes 100 to 150 milliseconds to blink your eye), which is like a midsize car moving at 15,000 mph!

The ciliates use a "mechanochemical" action to achieve their astounding speeds. Calcium provides the fuel, and calcium-binding proteins trigger the spiral movement.

Bioengineers are studying the coordinated structural and chemical reaction, hoping to find inspiration to improve micromachinery such as the micropumps and microvalves used in blood and DNA analysis, implanted insulin delivery devices, and inkjet printers.



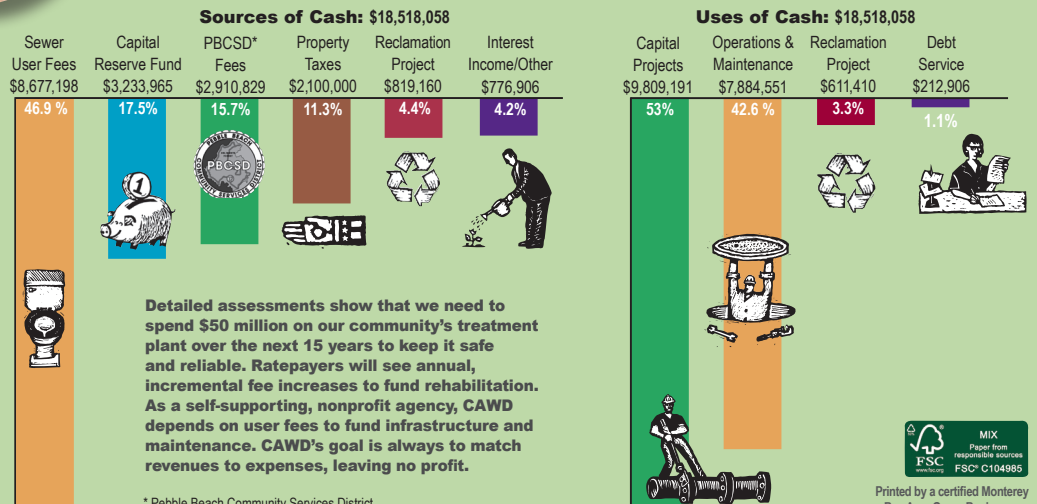
Carchesium hitches a ride on a snail shell.



Individuals in the Carchesium colony capture bacteria, which provide nutrients for the entire colony.
Photo: plingfactory.de

CARMEL AREA WASTEWATER DISTRICT BUDGET

July 1, 2021 - June 30, 2022



Printed by a certified Monterey Bay Area Green Business on sustainable and/or recycled stock with vegetable-based inks.