

PORT COSTA SANITARY COMMISSION

Regular Business Meeting - Amended

AGENDA FOR WEDNESDAY, MARCH 13, 2024

TIME: 6:00 PM

PLACE: Port Costa School, 1 Plaza Del Hambre, Port Costa, CA

The Port Costa Sanitary Commission is an agent of the Crockett Community Services District.

1. CALL TO ORDER – ROLL CALL
2. CALL FOR REQUESTS TO CONSIDER ITEMS OUT OF ORDER
3. PUBLIC COMMENTS ON NON-AGENDA ITEMS:
(The Commission is prohibited from discussing items not on this agenda. Matters brought up that are not on the agenda may be referred to staff for action or calendared on a future agenda.)
4. CONSENT CALENDAR: Consideration of a motion to approve the following item:
 - a. Approve Minutes of February 14, 2024.
5. SEATING OF NEW MEMBER WILLIAM LEE VANCE:
6. ADMINISTRATIVE:
 - a. Recieve report on actions taken by the District Board.
 - b. Receive Self-Monitoring Report cover letter for January 2024.
 - c. Receive 2023 Annual Pollution Prevention Plan report.
 - d. Update on sewer use charges.
 - e. Update on flow numbers.
7. BUDGET AND FINANCE:
 - a. Receive warrant transmittals and budget updates.
 - b. Update on 2024 Budget Process.
8. WASTEWATER:
9. REPORT OF DEPARTMENT MANAGER: (These items are typically for the exchange of information only. No action will be taken at this time.)
 - a. Operations, maintenance, and capital improvements.
 - b. Governmental matters.
 - c. Announcements and discussion.
10. REPORTS/COMMENTS FROM COMMISSIONERS: (These items are typically for the exchange of information only. No action will be taken at this time.)

11. FUTURE AGENDA ITEMS:

- Bull Valley Agricultural Center & Port Costa School – scope and costs.
- Acquire backup effluent pump with capacity to maintain flow to filter beds.
- Acquire two replacement peristaltic pumps for chemical dosing.
- Contract Operators.
- Research funding and grant opportunities.
- Climate change impact on waterfront.

12. ADJOURNMENT to April 10, 2024.

You will find the Minutes of this meeting posted on our website at www.town.crockett.ca.us/meetings.

Visit our website for more information on meetings and activities of the Crockett Community Services District and the towns of Crockett and Port Costa on the picturesque Carquinez Strait of the San Francisco Bay.

In compliance with the Americans with Disabilities Act of 1990, if you need special assistance to participate in a District meeting, or if you need a copy of the agenda, or the agenda packet, in an appropriate alternative format, please contact the General Manager at (510) 787-2992. Notification at least 48 hours before the meeting or time when services are needed will assist District staff in assuring that reasonable arrangements can be made to provide accessibility to the meeting or service.

In accordance with California Government Code Section 54957.5, any writing or document that is a public record relates to an open session agenda item and is distributed less than 72 hours before a regular meeting will be made available for public inspection at the Crockett Community Services District Office in Crockett. If, however, the document or writing is not distributed until the regular meeting to which it relates, then the document or writing will be made available to the public at the location of the meeting, as listed on this agenda. The office address is 850 Pomona Street, Crockett, California, 94525.

PORT COSTA SANITARY COMMISSION

of the Crockett Community Services District

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For Review

MINUTES OF REGULAR MEETING, FEBRUARY 14, 2024

1. CALL TO ORDER: The meeting was called to order at 7:04 PM by Chair Surges. Present were Commissioners Cusack, Klaiber, List, Scheer, and Surges. Staff present included Sanitary Department Manager (SDM) Barnhill, Interim General Manager (IGM)/District Secretary (DS) Rivas, District Engineer (DE) Murdock, and Administrative Services Manager (ASM) Goodman.
2. CONSIDER ITEMS OUT OF ORDER: None.
3. PUBLIC COMMENTS ON NON-AGENDA ITEMS: None.
- 4.a CONSENT CALENDAR: Minutes of January 10, 2024, were approved with no changes. (Scheer 1st, List 2nd, 5/0)
5. PUBLIC HEARING: None.
- 6a. REPORT ON ACTIONS TAKEN BY THE DISTRICT BOARD: DS Rivas reminded the commissioners that Nick Spinner is the new President; Director Barassi is now on the Budget and Finance Committee and all other committees remain as they are. The Board approved the reappointments of PCSAN commissioners Klaiber and List. Former general manager Dale McDonald was appointed to the CVSAN commission. Director Peterson announced he would be resigning before the end of his term and has asked Mr. McDonald to consider applying for his seat on the Board. John Mackenzie was nominated for a seat on the LAFCO (Contra Costa Local Area Formation Commission) Board. All commissioners should have received an invitation to CSDA and were encouraged everyone to register and take advantage of the resources available including free training. DS Rivas introduced William Lee Vance, aka Billy Martini, who has submitted his application for alternate commissioner. He will be on the March agenda.
- 6b. SELF-MONITORING REPORT COVER LETTER FOR THE ANNUAL 2023 DATA SUBMISSION: Received. There were two permit violations in 2023. The Enterococcus permit limitation was exceeded in February and the weekly Total Suspended Solids (TSS) exceeded permit limitation in December. The cause for these exceedances is undetermined. In many cases it is difficult to determine the cause of exceedances, Mr. Barnhill said that sampling, handling, and testing are among potential root causes for exceedances. Sampling equipment, sampling, sample transport, and laboratory handling are always potential weak points in quality processes due to potential cross contamination. A minimum penalty of \$3,000 per exceedance is imposed by the Water Board. If it is determined that multiple exceedances occurred due to a singular event, or source, then it is possible for the Water Board to impose one penalty for the group of exceedances. This should not be expected for the two exceedances in 2023 due to the long timespan.

4.a

6c. SELF-MONITORING REPORT: Received. There was one exceedance of TSS limitation in December and no spills occurred in January.

6d. CONSIDER CHANGING THE PCSAN MEETING TIME TO 6 PM: Changing the meeting start time from 7 pm to 6 pm was approved unanimously.

7a. BUDGET AND FINANCE / WARRANT TRANSMITTALS AND BUDGET UPDATE:

Received. A \$13,240 check was issued to JP Electric for the repair of the electrical pole for work performed and to maintain good relationships with the vendor. A check was issued to the District to pay for the pole repair pending the final determination of the responsible party. Board Director Mackenzie will be meeting with the railroad company but has had challenges with coordinating a date.

7b. UPDATE ON 2024 BUDGET PROCESS: The budget schedule has been updated with minor adjustments including pushing February dates to March. ASM. Goodman met earlier with the Board budget and finance committee. She hopes to get most things out by next month. Water usage data and other data from the County necessary for the budget has been ordered. She is working closely with staff to prepare a mid-year budget. She is working on four draft operating budgets.

8. WASTEWATER: None.

9a. REPORT OF DEPARTMENT MANAGER: Mr. Barnhill is currently working on the sewer use charge data and expects to have an average number by the next meeting.

Telstar calibrated the discharge flow meter in the treatment plant which took two hours. The calibration is due by March 3rd. Telstar has a four-hour minimum charge but because they were in Crockett, staff were able to save Port Costa for two hours by taking them to Port Costa.

Commissioner Surges inquired about flow. Mr. Barnhill responded that the soil is very saturated. December experienced approximately 40,000 gallons per day. The average for last year was 15,000 gallons and now is at 18,000. People are using more water than expected after COVID-19 when people are coming out to Port Costa more frequently. He cautioned that while there is a move towards low-flow toilets, they may cause issues to Port Costa's sensitive system.

9b. GOVERNMENTAL MATTERS: None.

9c. ANNOUNCEMENTS AND DISCUSSION: None

10. REPORTS/COMMENTS FROM COMMISSIONERS: an inquiry regarding the Revive Coffee shop at the District office was made. The shop is doing very well. They are fully insured and permitted. The lease has a significant increase at the one-year mark. This was done to allow time for the business to become established. The housing unit is self-sufficient and utilizes minimal utilities.

There is concern about potential future damage to the newly repaired electrical pole. The pole requires accessibility and cannot be fenced off. The pole is not located in a vehicle-accessible area, but other means of protection will be discussed with the railroad representative.

11. FUTURE AGENDA ITEMS:

- Bull Valley Agricultural Center & Port Costa School – scope and costs. This item was discussed earlier under governmental matters.
- Acquire a backup effluent pump with the capacity to maintain flow to filter beds.

- Acquire two replacement peristaltic pumps for chemical dosing.
- Research funding and grant opportunities.
- Report on State Collection System Audit.
- Consider changing for meeting time to 6 pm.

12. ADJOURNMENT: The meeting was adjourned at 7:33 PM until March 13, 2024, at 6 pm.

Respectfully submitted,
Sonia Rivas, MBA
District Secretary

February 29, 2024

William Burrell
Water Resource Control Engineer
San Francisco Bay Regional
Water Quality Control Board
1515 Clay Street, Suite 1400
Oakland, CA 94612

SUBJECT: Self-Monitoring Report Submittal for January 2024 for Crockett Community Services District (CCSD) WWTP Port Costa, CA

The Legally Responsible Official (LRO) for CCSD is James Barnhill, contact phone number (510) 787-2992. The Chief Plant Operator is Nicholas Gaunt with Valley Operators, a licensed California Wastewater Treatment Plant Contract Operator (40029), contact phone number (925) 698-4636.


The CCSD Port Costa WWTP contracts laboratory testing with Eurofins Environmental Laboratories, Inc., which is an ELAP, certified lab. All sampling and testing analysis records are maintained and available for inspection during normal business hours at the contract lab located at 5063 Commercial Circle Suite H, Concord, CA 94520-8577 (925) 689-9022.

The monthly report for January 2024 has been uploaded to the CIWQS website.

No exceedances occurred during the month of January.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Prepared by:


Nicholas Gaunt,
Chief Plant Operator

Legally Responsible Official:


James Barnhill
Port Costa Manager

cc: Casey Wichert, Valley Operators

PORT COSTA SANITARY DEPARTMENT

of the Crockett Community Services District

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February 20, 2024

Executive Officer
Attn: William Burrell
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

RE: 2023 Pollution Prevention Plan Annual Report
Port Costa Sanitary Department of the Crockett Community Services District

Dear Mr. Burrell:

Attached is the Port Costa Sanitary Department's Pollution Prevention Plan report, a part of the Pollutant Minimization Program (PMP). This cover letter, report, collection system cleaning summary, and 2022 District newsletter have been submitted to CIWQS. The documents were prepared in accordance with the requirements presented in our NPDES permit CA0037885, Board Order R2-2018-0053, effective February 1, 2019.

Household Hazardous Waste (HHW) collection was suspended due to Covid-19 Pandemic and remains suspended to reduce health exposure risks. HHW was not submitted to the District for disposal in 2023. Residents were encouraged in the District newsletter to dispose of HHW at West County HHW Collection Facility in Richmond.

If you have questions about the attached document or need any additional information I can be reached at (510) 787-2992 or via email at jbarnhill@town.crockett.ca.us cc engineer@town.crockett.ca.us

Sincerely,



James Barnhill
Sanitary Department Manager
Crockett Community Services District

CROCKETT COMMUNITY SERVICES DISTRICT

PORT COSTA SANITARY DEPARTMENT

POLLUTION PREVENTION PLAN ANNUAL REPORT

2023

I. INTRODUCTION & PURPOSE

This annual Pollution Prevention Plan report covers efforts of the Port Costa Sanitary Department to minimize the intrusion of certain waste materials into the Port Costa sewer system for the protection of our environment. Pollution prevention activities are intended to target specific pollutants of concern.

The purpose of the Pollutant Minimization Program is to focus on a “Program of waste minimization and pollution prevention actions that include, but are not limited to, product substitution, waste stream recycling, alternative waste management methods, and education of the public and businesses. The goal of the Pollutant Minimization Program [PMP] is to reduce all potential sources of a priority pollutants through minimization (control) strategies, including pollution prevention measures as appropriate, to maintain the effluent concentration at or below the water quality-based effluent limitation. Pollution prevention measures may be particularly appropriate for persistent bioaccumulative priority pollutants where there is evidence that beneficial uses are being impacted. Cost effectiveness may be considered when establishing the requirements of a Pollutant Minimization Program. The completion and implementation of a Pollution Prevention Plan, if required pursuant to Water Code section 13263.3(d), is considered to fulfill the Pollutant Minimization Program requirements.” (Order R2-2018-0053 Att. A pg. 15)

A. GENERAL DESCRIPTION OF THE DISCHARGER

The community of Port Costa is located near the shore of the Carquinez Strait, approximately 1.5 miles East of Crockett. Port Costa is surrounded by East Bay Regional Park District land which abuts most of the perimeter property lines. The waterside land is owned by Union Pacific Railroad. Crockett Community Services District (District) is the owner of the Port Costa municipal wastewater Collection System and the Port Costa Wastewater Treatment Plant (WWTP) hereinafter referred to as plant. The plant is a Publicly-Owned Treatment Works located near the Carquinez Strait at the end of Canyon Lake Drive in Port Costa. The plant provides secondary treatment of wastewater from domestic, and to a lesser extent commercial sources within the Port Costa community. There are no industrial dischargers in the service area. The service area population consists of 190 residents based on 2020 census data. In 2023 the plant had an average daily dry weather flow of 0.019 mgd (19,000 gallons per day).

B. OPERATIONAL RESPONSIBILITY

The Legally Responsible Official (LRO) is a required position which must self-report facilities activities, spills, and laboratory results to the California Integrated Water Quality System Project (CIWQS). The LRO is responsible for authorizing Data Submitters into CIWQS for Port Costa data input. The Sanitary Department Manager (manager) is the LRO and is an employee of the District. The manager/LRO works with the District Engineer, who is a Data Submitter, and with other District staff to accomplish tasks as needed. The LRO reports issues which may affect quality to the Water Resource Control Engineer who works for California Regional Water Quality Control Board (RWQCB). The manager/LRO utilizes contractors to maintain and repair over one mile of pipe in a gravity collection system. Additionally, contractors maintain and operate the workings of the treatment plant facilities. The plant is operated under contract with Valley Operators LLC, 1211 Como Drive, Manteca, CA 95337. The Chief Plant Operator and a Data Submitter for the Port Costa plant is Nicholas Gaunt. The treatment facilities consist of a septic tank, which provides primary treatment, and the plant, which accomplishes secondary treatment. Building laterals are privately owned. The private laterals are certified, repaired, or replaced under District permit. Private laterals are bound by Ordinance 07-1 which requires certification of the lateral at transfer of property ownership.

C. SYSTEM OVERVIEW – From collection system source to treatment discharge

Municipal wastewater is conveyed from buildings, via their private laterals, to the public collection system. The public collection system carries untreated wastewater to the septic tank for primary treatment. The primary (partially) treated wastewater flows by gravity from the septic tank to the secondary treatment plant. The primary treated wastewater enters the plant wet-well and is then pumped to a dosing structure to be filtered through sand filter beds. The partially treated wastewater filtered through the sand filter beds (filtrate) returns into a filter return chamber where the volume is split. Some of the filtrate re-enters the wet-well to be re-cycled through the sand filter beds. The remainder volume flows from the filter return chamber, over a metering weir, to a disinfection tank. Disinfection is the final process, the partially treated wastewater is chlorinated, held in detention, de-chlorinated, and then discharged as fully treated effluent through sampling point EFF-001. The fully treated effluent is released at Discharge Point 001 which is a 10-inch outfall pipe, the end of which is submerged approximately 60 feet offshore in the Carquinez Strait.

D. REGULATORY

The Port Costa Sanitary Department is one of 44 wastewater agencies in the Bay Area Pollution Prevention Group (BAPPG) that work together to coordinate pollution prevention activities. BAPPG submitted its 2023 Annual Report on regional activities on January 23, 2024. Order R2-2018-0053, NPDES Permit No. CA 0037885 became effective February 1, 2019. This order was set to expire January 31, 2024. The parameters of the existing order are binding pending enactment of the new order which is expected to be considered for approval by the Water Board in May 2024. Application for reissuance of the NPDES permit was delivered on time, the deadline was May 1, 2023. The manager/LRO is working with Larry Walker Associates who provide expertise and oversight throughout the discharge permit reissuance process. The standing order, R2-2018-0053, requires that “The Discharger shall continue to improve its existing Pollutant Minimization Program to

promote minimization of pollutant loadings to the Facility and therefore to the receiving waters.” Waste discharge requirements for mercury and PCBs limits required by Order R2-2022-0038 are included in the annual report.

II. WASTEWATER TREATMENT PLANT (PLANT) AND SERVICE AREA

A. HISTORY AND CONSTITUENTS

Crockett Community Services District acquired ownership of the Port Costa wastewater systems from Contra Costa County in May 2008. Contra Costa County Sanitation District #5 was renamed Port Costa Sanitary Department. There are 86 connections to the public collection system. The connections are primarily residential except for two restaurants, one hotel, one church, and one non-profit public meeting place.

B. SYSTEM OPERATION IN MORE DETAIL – collection and treatment

There are no lift stations in the Port Costa collection system. Wastewater is conveyed, by gravity, from building laterals, through the collection system to a manhole designated as sample point INF-001. The wastewater flows through INF-001 to an 86,000 gallon subterranean septic tank. The septic tank has an operational capacity of 61,000 gallons. The septic tank accomplishes primary treatment (clarification) by sheer capacity and velocity reduction. Three baffle walls ensure entrapment of floating debris, Fats, Oils and Grease (FOG), settleable solids, and help to reduce Total Suspended Solids (TSS). Anaerobic processes contribute to primary treatment in the tank. This primary treatment is necessary to provide clarified wastewater for further treatment downstream at the secondary treatment plant.

The partially treated (clarified) wastewater gravitates from the septic tank through a 797 linear foot gravity pipeline for secondary treatment at the plant wet-well. The partially treated wastewater is pumped from the wet-well to a dosing structure which distributes the water to sand filter beds. The water that drains through the sand filter beds is called filtrate. The filtrate gravitates from the sand filter beds to a filter return chamber. The filter return chamber is adjacent to the wet-well and the chlorination chamber. The filter return chamber splits a portion of the filtrate back into the wet-well where the filtrate comingles with primary influent from the septic tank to be re-pumped to the sand filter beds. The remainder filtrate, that is not split back to the wet-well, flows over the metering weir into a chlorination chamber. The chlorinated water continues through a disinfection tank (commonly known as a contact basin) where it is detained to allow chlorination to take affect. Following detention in the contact basin, the water rises through a de-chlorination chamber which is designated sample point EFF-001.

The fully treated and dechlorinated effluent is discharged through a submerged 10-inch diameter ductile iron outfall pipe which terminates approximately 60 feet offshore in the Carquinez Strait.

C. EVIDENCE OF IMPROVEMENT

In January 2020 the septic tank was fully cleaned and the three baffle walls were replaced by Clean Harbors Environmental Services. 220 tons (440,000 pounds) of dewatered sludge was removed in 19 shipments, accepted for disposal at Potrero Hills Landfill. This maintenance and repair project returned the septic tank to its original operational capacity and capability. Prior to the cleaning, the usable volume of the septic tank was greatly reduced by the mass accumulation of sludge which reduced retention time and allowed inadequately clarified wastewater to pass along to the sand filter beds. Any reduction in performance of septic tank primary treatment will reduce the serviceable lifespan of assets downstream at the plant and impact the effectiveness of secondary treatment. Loading in the sand filter beds will shorten their service life. Reducing the effectiveness of any part of the treatment process will adversely affect effluent quality which could lead to potential exceedance of Effluent Limitations and accelerate the time-frame for full sand filter replacement or reconstitution.

Effluent Limitation Exceedances per Year

2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
7	4	4	2	8	3	6	0	0	0	2

Individual effluent limitation exceedances carry a \$3,000 mandatory minimum penalty. Some exceedances are found to have a common cause. The Water Board has, in the past, applied one minimum penalty to multiple violations where the root cause was determined to be a singular source or event. Causes are undetermined for the 2023 February Enterococcus and December weekly TSS exceedances.

III. SOURCE WATER

Contra Costa Water District (CCWD) supplies water for Port Costa.

The EPA expanded the **Lead and Copper Rule (LCR)** that “requires public water systems to develop a comprehensive service line inventory, including both the utility-owned and customer-owned portions of the service line.” According to CCWD’s 2023 Annual Report “CCWD completed its initial inventory of its portion of the service lines in 2018, identifying no lead service lines (LSLs). In August 2022, the EPA released guidance for developing the expanded LCR, which now requires us to include customer-owned service lines. In 2023, CCWD developed a plan to comply with these requirements, involving a review of historical records, visual inspections, and excavations. This approach has not identified any LSLs in the customer-owned portion of the service lines to date. **This inventory update will be complete by October 2024**, ensuring full regulatory compliance and continued safety of our water supply.”

“In 2023, CCWD collected quarterly samples at our entry points to the distribution system. Our investments in granular activated carbon filters and advanced treatment technologies have paid off; there were **no detections** of **PFAS** or **lithium** in our water during any of this sampling.” (Contra Costa Water District - 2023 Annual Report pg. 19)

IV. POLLUTANTS OF CONCERN

- A. Pollution prevention efforts focused on PRIORITY "A" POLLUTANTS of Concern:
The proximity of the active railroad raises concern of airborne contaminants settling within the plant property, specifically on the sand filter beds.

COPPER

Copper was tentatively identified as a possible cause of episodic chronic toxicity to *Echinoderm* and copper may impact ash quality in terms of the California hazardous (Regional Water Quality Control Board) waste criteria, waste extraction test. The most notable source of copper identified by various agency authorities, such as Cal-EPA, is copper sulfate root killer and other herbicides. For this reason, California enacted a sales ban on copper sulfate root killer in 1996. The District forbids any use of chemicals by its contractors for root abatement. The greatest threat of an exceedance would be from runoff, or ground water entering the collection system. The RWQCB has placed copper on the 303(d) List of Impaired Waters of the Clean Water Act, which may mean more stringent discharge limits in the future. Table 4 Effluent Limitations: Average Monthly is 55 µg/L, Maximum Daily is 120 µg/L. In 2023 Copper was detected at Effluent Location 001 (EFF-001). 13 µg/L, 6 µg/L, 16 µg/L and 13 µg/L. Annual average is 12 µg/L.

CYANIDE

Cyanide is a carbon-nitrogen chemical. Discharges of cyanide generally originate from metal finishing industries, iron and sheet mills, organic chemical industries, and cyanide waste in landfills. None of these industries are known to exist within Port Costa. According to published data, cyanide is a potential byproduct of the disinfection process through chlorine used at the Plant. Its presence has been associated with interference from salt. Other potential sources of cyanide are car emissions and pesticides. Although the District does not have the ability to monitor every connection, there is a public campaign to control pollutant discharge. Table 4 Effluent Limitations: Average Monthly is 21 µg/L, Maximum Daily is 42 µg/L. In 2023 Cyanide µg/L was detected at Influent Location 001 (INF-001). <3 µg/L, 14 µg/L, 14 µg/L, 9 µg/L, and 17 µg/L. Annual average is <11 µg/L.

MERCURY

Commonly identified sources of mercury include hospitals, veterinary clinics, schools of higher learning, biological and pharmaceutical laboratories, none of which are located within the District. All other sources of mercury apply to solid waste and include fluorescent tubes, thermometers, thermostats, and other miscellaneous items. The District focuses on the residential population through a public awareness campaign and an exchange program for mercury thermometers. The discharge standard is low, which creates the possibility of exceeding the Average Monthly effluent limit of 0.066 µg/L and an Average Weekly limitation of 0.072 µg/L. The sensitivity of the effluent limitations creates the possibility of false readings due to background contamination. The RWQCB has placed mercury on the 303(d) list, which may mean more stringent limits in the future. In March 2023 the Mercury result was 0.012 µg/L.

PCBs

Polychlorinated biphenyls (PCB's) are highly carcinogenic chemical compounds. PCB's were used in industrial and consumer products such as carbonless paper, heat transfer fluids, dielectric and coolant fluid used in electrical equipment. PCB's were banned in the United States in the 1979 Toxic Substances Control Act. California Regional Water Control Board SF Bay Region issued the latest Order R2-2022-0038 which imposes limitations on Port Costa effluent. The Average Monthly Effluent Limit is 0.012 µg/L and the Maximum Daily Effluent Limit is 0.017 µg/L. Port Costa laboratory analyses reported no detectable PCB's in 2023.

LEAD

Lead may exist in the Port Costa environment in significant quantities, potentially both in the soil and the air around the old port where the plant is located. It is possible for lead contaminated dust to settle in the sand filter beds.

- B. PRIORITY "B" POLLUTANTS of concern are also targeted for prevention activities:

SETTLABLE SOLIDS

Inorganic matter (grit) carried through the sewer system can damage assets at the plant. Such material may reduce reliability and impair the performance of retention time, pumps, motors. Impaired performance creates the possibility of exceeding limitations for water or air quality. The septic tank is designed to capture settleable solids. Bulk solids were completely removed in 2020 as mentioned earlier in *II c. Evident Improvements*.

FATS, OILS AND GREASE (FOG)

Household and restaurant FOG can be carried through municipal sewer systems. Sanitary sewer spills (spill) can result from FOG blockages. Cleaning and disposal costs increase with the introduction of FOG to the system. The scum layer, which comprises FOG and other floating debris, is captured primarily in the first chamber of the septic tank. The goal is to minimize carryover contamination of the septic tank chambers to prevent carryover to secondary treatment at the plant. The scum layer is regularly measured by the contract operators. The scum layer is periodically removed using vacuum truck. The District follows recommendations of the contract operators to determine the most efficient timing to remove the scum layer. The scum layer was pumped once in 2023 by West County Wastewater District (WCWD). This septage was accepted by WCWD for disposal.

V. SLUDGE and BIOSOLIDS MANAGEMENT PRACTICES

The sludge levels settled at the bottom of the septic tank are regularly profiled by the contract operators. A licensed private Class A hazardous waste transporter removes the sludge and biosolids directly from the septic tank when needed. The transport contractor handles and conveys the waste for disposal. Bulk solids, including dewatered sludge, were completely removed in 2020 as mentioned earlier in *II c. Evident Improvements*.

VI. REHABILITATION ELEMENT

The District's sewer pipe inventory and associated rehabilitation activities are discussed in the District's Sanitary Sewer Management Program (SSMP). The entire system (7,108 linear feet) was smoke tested in 2020, the testing garnered some valuable information, findings were visually inspected by CCTV in 2023 and found to be a non-issue.

Benefits of the system rehabilitation program include:

- Enhanced system reliability
- Reduction and elimination of sewer overflows
- Reduction of grit entering the system, including possible pollutants
- Reduction of I&I to the system, including possible pollutants
- Enhanced performance of the plant through reduction in hydraulic loading
- Enhanced performance of the plant through a reduction in chemical use

VII. ACTIVITIES IN 2023

A. TELEVISED INSPECTION PROGRAM

The Port Costa Collection System contains 7,108 linear feet of gravity sewers. CCTV inspection is progressing with multiple lines inspected and a developing plan to completely inspect the entire collection system to identify and rehabilitate found defects. Rehabilitation will be ongoing as defects are found. 1,219 linear feet (17%) of CCTV was performed in 2023.

B. FLOW METERING & DATA ANALYSIS

Effluent flow is constantly metered. The meter is located at the splitter box metering weir at the plant. The meter registers flow when the water level in the splitter box flows over the 90° metering weir into the chlorination chamber. The flow data is analyzed to establish baseline flows and to quantify the impacts of inflow/infiltration.

C. CONSTRUCTION PROJECTS

In 2023 two cleanouts were installed and two spot repairs were completed for a total of 13 linear feet of replaced sewer line. Full system CCTV is key to identifying and prioritizing repair and replacement projects. CCTV is ramping up with plans to inspect 100% of the system. The initial phase is to target high flow segments and areas of concern.

D. LATERAL INSPECTIONS

District Ordinance 07-1 requires current certification or inspection and certification of building sewers at the time of property sale. Any repair or replacement must be permitted and receive a certificate of compliance. Permits and certificates of compliance are issued by the District. Five permits and five certificates of compliance were issued in 2023. Two buildings are known to have transferred ownership in 2023. Two buildings are in process for review in accordance with the 2007 ordinance.

VIII. PREVENTIVE MAINTENANCE ELEMENT

The Department places a strong emphasis on preventive maintenance. This program places sewer segments on a routine cleaning schedule most appropriate for each line based on maintenance contractors' assessment of conditions. The benefits of preventive maintenance include:

- Early detection of defects to prevent sewer spills and reduce I&I
- Enhanced system reliability
- Reduction and elimination of sewer overflows
- Removal of grit and debris from the system, including possible pollutants
- Enhanced performance of the plant through improved primary treatment
- Maximum cost-effectiveness of environmental protection measures

Activities during the year included:

A. SEWER MAINTENANCE PROGRAM

Port Costa sewer segments are regularly maintained. Sewer segments are scheduled by the manager/LRO using ICOM, which is the Districts Computerized Maintenance Management System (CMMS). Work orders are developed and promptly issued to a contractor monthly. 8,486 linear feet of sewer was cleaned by hydro jetting in 2023.

B. PLANT MAINTENANCE PROGRAM

Treatment facilities receive weekly maintenance. Repairs and capital improvements are made as needed for system enhancement and reliability. In 2020 the septic tank was fully rehabilitated, inspected for structural faults, and the baffles were replaced. Effluent quality has improved following this maintenance. Observation and measurement of floating debris and FOG (scum layer) is a regular activity. The scum layer is regularly removed by vacuum truck. This prevents damage to downstream assets. The emergency generator Automatic Transfer Switch (ATS) was replaced in July 2022. The emergency generator is automatically exercised, currently every Monday morning at 9am. The generator receives annual full-service maintenance which includes fluid, filter, battery, and load bank service. This full maintenance was performed in October 2023.

C. SANITARY SEWER MANAGEMENT PROGRAM (SSMP)

The District installed the SSMP in 2008. The goal of the system is to improve the decision-making processes of system management, achieve maximum reliability and cost effectiveness. The SSMP was updated in May 2023.

IX. COMMUNITY OUTREACH ELEMENT

The District has a community outreach program in the service area to advise the public of ways they can help us in reducing pollutants discharged to the Carquinez Strait. This is

primarily accomplished with the inclusion of the annual newsletter. The District provided public assistance by collecting household hazardous wastes of various kinds for safe disposal. The collection component was put on indefinite hold due to ongoing Covid-19 health exposure risks. Word of mouth and community postings are effective means of public outreach since Port Costa is a small community.

A. WEBSITE www.town.crockett.ca.us

The District uses its website to share information with the public. The presence of the website is posted in the District newsletters.

B. NEWSLETTER

The District published and mailed the annual newsletter in May 2023 along with Proposition 218 Notice of Sewer Use Charge (SUC) increase. The annual SUC rate did not increase from the 2022 rate of \$2,345 per single family residence and apartment. Commercial and Mixed-use customers incurred the minimum Of \$2,345 per unit plus a use rate of \$50.31 per 100 cubic feet over the annual average consumption of 4662 cubic feet.

C. THERMOMETER EXCHANGE

The District's mercury thermometer exchange program was not offered following the outset of the Covid-19 Pandemic. This program continues to remain on hold to limit health exposure to Staff and the public.

D. HOUSEHOLD HAZARDOUS WASTE

A hazardous waste program was developed for the District in 2012 to dispose of batteries, mercury devices, and electronic waste. The program was put on hold due to the Covid-19 Pandemic. This program continues to remain on hold. Household Waste was not received or disposed of by the District in 2023. The District website directs residents to dispose of Household Hazardous waste at the West County HHW facility in Richmond. www.town.crockett.ca.us/pollution-prevention-program.

X. RESEARCH ELEMENT

In December 2016 the Port Costa Sanitary Department received a completed Effluent Treatment and Disposal Alternative study which was developed by Larry Walker Associates (LWA). The study contained five alternatives to be considered by the District. In January 2017, the Port Costa Sanitary Commission directed staff to focus on Alternative #1, which is to maintain Existing plant. The Port Costa Sanitary Department plans to estimate refurbishment costs to maintain the plant to continue the current operation. District staff discuss potential alternatives, the options proposed by LWA remain open for consideration if Alternative #1 fails to remain viable. Staff is spending a minor amount of time researching package plant options.

XI. NETWORKING ELEMENT

Staff continues to limit outside personal contact to reduce negative health exposure.

XII. PLANNING AND REPORTING ELEMENT

A. PLANNING – System wide CCTV planning and implementation is in progress.

B. REPORTING – No activities this year, other than Discharge Permit reissuance.

XIII. COMMITMENT OF RESOURCES

The District targets actions which minimize expenditure to the rate-payers in the public interest. Financing options that have low probability of reducing pollutants from our wastewater discharged to the Carquinez Strait could detract from the focus of the limited District staff. The Department employs a manager/LRO and utilizes contractors for maintenance and operation of the facilities. The District plans to continue its focus on infrastructure maintenance, upgrades, and targeted I&I reduction. The focus is to complete CCTV, prevent sewer spills, and make timely repairs when defects are found.

XIV. EVALUATION OF EFFECTIVENESS

The limited size of the Department's service area (86 connections) and the lack of commercial customers suggest that source control efforts will make little measurable impact on pollutants entering the sewer system.

There is no significant development in Port Costa. Under the circumstances, it will be difficult to quantify the effectiveness of our PMP. Annual variations in rainfall may mask any successes in I&I or sludge reduction.

We are unable to measure the effectiveness of our website. We have no evidence that the website generated inquiries regarding pollution prevention. We cannot determine whether the website has generated additional drop-offs of household hazardous waste at the West County HHW facility in Richmond or elsewhere.

Establishing criteria to evaluate the effectiveness of our PMP in our service area might not be a useful exercise. Similarly, attempting to evaluate the PPP's effectiveness by such criteria could have no actual value. It seems unlikely that any actions the District might undertake would yield a quantifiable decrease in pollutants found in the effluent from our plant.

The quantifiable evidence of our effectiveness is in the lower levels of measured influent. Work to identify I&I sources will be ongoing.

XV. CONTINUATION OF THE PMP WITH PROPOSED CHANGES

The Port Costa Sanitary Department will continue work to fulfill requirements of the PPP. Elements such as, the Rehabilitation Element, the Preventive Maintenance Element, and the Public Outreach Element:

- A. Outreach to residential customers regarding the proper disposal of Household Hazardous Waste will continue to be posted on the District's website and in the District newsletter.
- B. Enforcement of the lateral inspection ordinance 07-1 will continue.
- C. Increase CCTV to complete the inspection of the entire system.
- D. Adjustments of maintenance scheduling and prioritization of repairs, or replacements to any suboptimal conditions or defects which may be found in ongoing CCTV.
- E. Preventive maintenance of the collection system will continue by utilizing input from maintenance contractors while using the data driven CMMS following SSMP guidelines.
- F. Outreach to employees and contract operators will continue through email, phone conversations, and in field meetings. Staff plans to continue regular discussion with Valley Operators regarding condition and opportunities for improvement of the plant and septic tank. Discussion with collection system maintenance contractors will continue in order to identify and address areas of concern.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations." (40 CFR 122.22(d).)





James Barnhill
Sanitary Department Manager
Crockett Community Services District
February 20, 2024

CROCKETT COMMUNITY SERVICES DISTRICT
Crockett Community Services District

Auditor's Date: _____ Fund: 342500 Account : 0830

Date	Name	Memo	Credit	Num
FUND 3425 - PC SANITARY - O&M				
02/01/2024	CONTRA COSTA COUNTY TREASURER	Netchex Payroll nbr 18 split	2,075.61	1814
02/01/2024	CONTRA COSTA COUNTY TREASURER	CalPERS payment Nov 23, Dec 23, Jan24	1,217.59	1815
02/01/2024	USBank	credit card payment Nov 23, Dec 23, Jan24	4,420.67	1816
02/01/2024	CD & Power	generator service 1/17/24 INV#01-83748	2,546.16	1817
02/01/2024	David Farnsworth, CPA	district FTR 2022	37.97	1818
02/01/2024	Eurofins Calscience	Jan 24 testing inv# 57000165196	1,520.75	1819
02/01/2024	First Foundation Bank	Acct# 60162400 Installment Payment #7/40	2,197.01	1820
02/01/2024	James Barnhill	Air filter for generator REIMBURSEMENT	43.89	1821
02/01/2024	Larry Walker Associates	PC 2023 NPDES permit renewal	189.75	1822
02/01/2024	Lincoln National Life Insurance Company	Feb 23 Acct# CCSVCD-BL-1564438	4.81	1823
02/01/2024	L.R. PAULSELL CONSULTING	High Pressure Pipe Cleaning INV#24-1	1,350.00	1824
02/01/2024	Sierra Chemical Company	chemicals Inv#149542	433.91	1825
Total FUND 3425 - PC SANITARY - O&M			16,038.12	
TOTAL			16,038.12	



 2/1/24

7.a

CROCKETT COMMUNITY SERVICES DISTRICT
Crockett Community Services District

Auditor's Date: _____ Fund: 342500 Account : 0830

<u>Date</u>	<u>Name</u>	<u>Memo</u>	<u>Credit</u>	<u>Num</u>
FUND 3425 - PC SANITARY - O&M				
02/15/2024	Campbell Business Solutions	Inv#s 5927 &6234 Network, Nas, Hardware svcs	56.29	1826
02/15/2024	Sierra Chemical Company	Inv# 149782, Sodium Hypochlorite Delivery	916.76	1827
02/15/2024	STATE COMPENSATION INSURANCE FUND	Inv# 1001642804 Feb 2024	141.48	1828
02/16/2024	Valley Operators, LLC	Jan 2024 Monthly Svc fee and Materials Inv#2686	4,738.39	1829
02/16/2024	CONTRA COSTA COUNTY TREASURER	Netchex Payroll Nbr 19	263.54	1830
Total FUND 3425 - PC SANITARY - O&M			<u>6,116.46</u>	
TOTAL			<u>6,116.46</u>	

[Handwritten Signature]
2/16/2024