Performance Measurement Report

Performance Measurements for the West Bay Sanitary District Using the "Effective Utility Management" Framework

Includes Data and Analysis for Calendar Year 2023



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Introduction

Introduction to the Report

This report is the twevleth of what is intended to be an annual report by the West Bay Sanitary District regarding the performance of the District. It includes performance measures that, when taken as a whole, should give the reader a sense of how well the utility is performing and managed. This report is prepared by management for use by the District's Board of Directors and by the general public.

The District has chosen to use the Effective Utility Management (EUM) framework for presenting this information. This framework is specific to water and wastewater utilities and provides for the possibility of comparing the District to other wastewater utilities.

About Effective Utility Management

Effective Utility Management (EUM) is a framework for evaluating water and wastewater utilities. In May 2007, six major water and wastewater associations and the United States Environmental Protection Agency (EPA) agreed to support EUM collectively and individually throughout the water sector. EUM is designed to help utility managers make practical, systematic challenges to achieve excellence in utility performance, and encapsulates the collective knowledge and experience of utilities leaders who are committed to helping improve water and wastewater management.

EUM has identified Ten Attributes of Effectively Managed Water Sector Utilities. This performance measurement report has been divided into Nine of those attributes. As they are intended to help utilities maintain a balanced focus on all important operational areas rather than quickly moving from one problem to the next.

More can be learned about Effective Utility Management by visiting the website www.waterEUM.org.

About Performance Measures

Performance measures are items that are measured by an organization to evaluate the performance of that organization. There are several types of measures, including input, output, efficiency, and effectiveness. Input and output measures tend only to capture the amount of work performed by departments or organizations. This report focuses on efficiency and effectiveness measures, measures that are meaningful to the management of the District and which the District has some ability to influence.

Introduction

Quick - Glance Ratings

This report includes an analysis of how the District is doing within the measured area. Additionally, next to each graph or qualitative measure is an icon to help the reader assess how the District is performing against that measure. Those icons are as follows:



"Satisfactory" (green star) – signifies that the District has met its goals, or that the trend is positive.



"Goals met but Watch" (blue & white thumbs up) – signifies that the District has met its goals but needs to watch the trend further.



"Watch" (orange diamond) – signifies that the District is in danger of not meeting its goals, that the trend is indeterminate, or that there is insufficient data to make an assessment.



"Unsatisfactory" (red triangle) – signifies that the District has not met its goals or that the trend is negative.



"No Measure" (blue circle with slash) – signifies that the District has not developed a measurement for this performance indicator.

Executive Summary

This Performance Measurement Report is produced by the West Bay Sanitary District. It is the District's intention to produce this report annually. The report is structured around Nine of the Ten Attributes of Effectively Managed Water Sector Utilities, as developed in Effective Utility Management.

This report will be used by management of the District to identify specific trends or issues regarding the nine attributes. The Report is also intended to provide a partial answer to the question asked by the Board of Directors and the ratepayers alike, "Is West Bay Sanitary District a well-run utility?" This document may be used by the District's Board of Directors as a source of information for setting District goals and priorities.

The following is a summary of the 2023 Performance Measurement Report.

Product Quality – The District continues to meet or exceed regulatory compliance requirements within the Collection System. Significant changes and adjustments, in 2010, 2011, 2014 and again in 2019, to the Preventative Maintenance program has produced excellent results. The establishment of productivity goals, root foaming, basin to basin cleaning, scheduling of High Frequency cleaning including placing all small pipes on a 12-15 month cleaning schedule as well as patching and repairing of pipe defects have resulted in a great reduction of sewer spills. The District had four sewer spills in 2021, two of the spills were caused by outside influences such as contractors. In 2022 there were three spills and only two spills in 2023. Both the number and volume of spills are significantly below the State and Regional average. The number of plugged pipelines are down from 81 in 2011 to only 11 plugged pipelines in 2023. This is a direct result of proactive and predictive cleaning.

Customer Service –2023 data on response times to calls for service continues to improve. The Project Management staff continues to exceed its performance goal to complete plan reviews on-time 95% of the time, by achieving 100% for the fourth year in a row.

Employee and Leadership Development – There was higher than usual turnover due to retirements in 2017, causing a spike in experience turnover. Employee survey responses indicate that there is no strong indication of unhappiness nor a desire to seek employment elsewhere. The measures on training indicate there is steady improvement in some training categories. In 2015 the District developed a Succession Plan for key positions, and will continue to work on a Succession Plan for other positions. Though not due to retirements, in 2016 the District experienced a turnover of 3 of the maintenance staff. Two were maintenance technicians and one was a field supervisor (lead worker). One individual left to become a union business representative, one left to "get out of California" and the last one left to further his education and start a new and different career path. In 2020 five employees were promoted including the General Manager and Operations Superintendent. In 2022, a maintenance worker was promoted to pump maintenance mechanic. In addition, the pump maintenance mechanic was promoted to Field Supervisor and a new Utility Worker position was created and filled. In 2023, the District hired a maintenance worker which made the department fully staffed for the first time in 5 years.

#1

#2

#3

#4

Resource Optimization – Staff is constantly looking for ways to increase its buying power, save the District money, and maximize its manpower. Staff implemented a rescheduling of sewer main cleaning cycles to minimize travel time and save man-hours; these man-hours were then used to clean other sewer lines elsewhere in the system. Staff developed ways to use chemicals for odor control at pump stations rather than installing expensive infrastructure. Additionally, staff implemented the practice of purchasing fleet vehicles on state bid lists, and using Co-Op purchasing agreements for purchasing equipment, saving the District tens of thousands of dollars each year.

#5

Financial Viability – The District maintains appropriate policies and internal controls for financial stability. Reserves are maintained to stabilize rates and provide for emergencies. Sewer service charges are evaluated regularly to ensure rates cover annual costs of operations and fund infrastructure maintenance and improvements.

Financial ratios provide a benchmark for the District over time and compared to other similar agencies. The ratio of revenue to expenditures decreased between FY 2021-22 and FY 2022-23, with expenditures increasing three times more than revenues, while maintaining a positive ratio, indicating additional funding collected for capital. The debt service coverage ratio measures sustainability.

#6

Infrastructure Stability – The District performed an inventory of critical assets as part of the Collection System Master Plan update in 2013. The District also performs condition assessments of the collection system via CCTV every 6 years. The District had been spending over \$1M on renewal & replacement projects to meet minimum standards and targets and increased its commitment to the infrastructure by increasing CIP spending to \$6-\$7M per year until 2022. For 2023 CIP was approximately \$7.1M.

The District is performing well regarding collection system failure rates. Planned maintenance as a percentage of total maintenance is high in the collections system, and the District regularly scheduled restaurant inspections to help prevent fats, oils, and grease (FOG) problems in the collection system. This resulted in no SSO's due to commercial FOG issues.

Working with V.W. Housen & Associates, District staff has developed a Linear Asset Management Plan (LAMP) to assist the District to more scientifically prioritizing pipeline rehabilitation and replacement in order to manage risk. The LAMP consists of a numerical asset management prioritization tool using Microsoft Access. This tool refines project rehabilitation priorities by calculating Likelihood and Consequence of Failure, taking into account a wide range of criteria, for each asset (i.e. pipelines or manholes). These two components, when combined, determine the Risk of Failure for each asset. The tool assigns a Risk Score to every asset in the system, which is then reviewed in GIS to establish more rigorous and precise process for pipeline rehabilitation and replacement. In December 2023, the Board accepted the 2023 Wastewater Collection System Master Plan by V. W. Housen & Associates. The Master Plan studies included 1) Hydraulic Model and Capacity Assessment; 2) Linear Asset Management Plan; 3) Pump Station Assessments; and 4) Recycled Water Plan. Together, the four studies provide recommended projects, priorities, and costs for input into the District's capital improvement program ("CIP").

#7

In January 2024, staff reported to the Board on the revised Master Plan Capital Improvement Program list which will be used as part of the 2024 Sewer Service Charge rate study. The District increased its commitment to the infrastructure by increasing CIP spending to \$20-\$22M per year for FY 2024-2028 and \$10M per year for FY 2028-2034.

Operational Resiliency – The District's total recordable accident rates have met or exceeded the industry standard for several years. The previous four years, the District had been lost time accident free until November 2011. Insurance claims have been declining over time, and have not been considerably expensive. The District's Experience Modification Rate (a measure of worker accidents) had gone down steadily. A serious accident of 2011 caused the Experience Modification Rate to increase above 1.0 in 2012. In 2023 the Xmod rate was .80. The District maintains adequate Emergency Response Plans and trains on them regularly. The District is well prepared in its operational resiliency under emergency conditions.

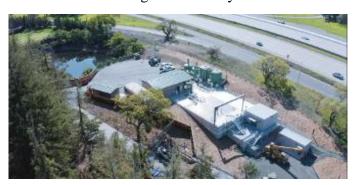
Community Sustainability – The District has invested in programs that encourage reduced potable water consumption, environmental protection and awareness, and has incorporated "green" practices into its capital planning. Our Water Quality Department works with commercial customers to explore ways to reduce water usage in their businesses and prevent unnecessary wastewater from entering the collection system and requiring treatment. Staff requires dischargers to adhere to a set of Best Management Practices appropriate for individual businesses that help reduce water used for landscape irrigation, Food Service Establishments (FSE), and encourages the use of low flow sprayers and equipment. Staff has also incorporated specifications for the use of "green" technologies for pipe rehabilitation and replacement within the Capital Improvement Program. Techniques such as "pipe bursting" and "horizontal directional drilling" replace pipe without needing to open trench the entire pipeline, requiring only a pit at the beginning and end of the pipeline. Techniques such as "Cured In-Place Pipe lining" (CIPP) allows the rehabilitation of pipes at a significant savings and is also considered "trenchless". These methods significantly reduce asphalting, landfill waste, the use of rock and cement etc.., and thus reduces fossil fuel emissions from associated equipment. CIPP has the side benefit of stretching the District's capital dollars to rehabilitate or replace more pipe and collection system infrastructure.

The District has sought opportunities to replace vehicles and equipment with higher fuel efficiency than in the past thus further reducing greenhouse gas (GHG). The District acquired its first fully electric vehicle (EV) in October 2022 and purchased three additional EVs in 2023.

The use of field tablets and smart phones for data capturing and access of safety information has increased this component, improved productivity, and reduced paper waste.

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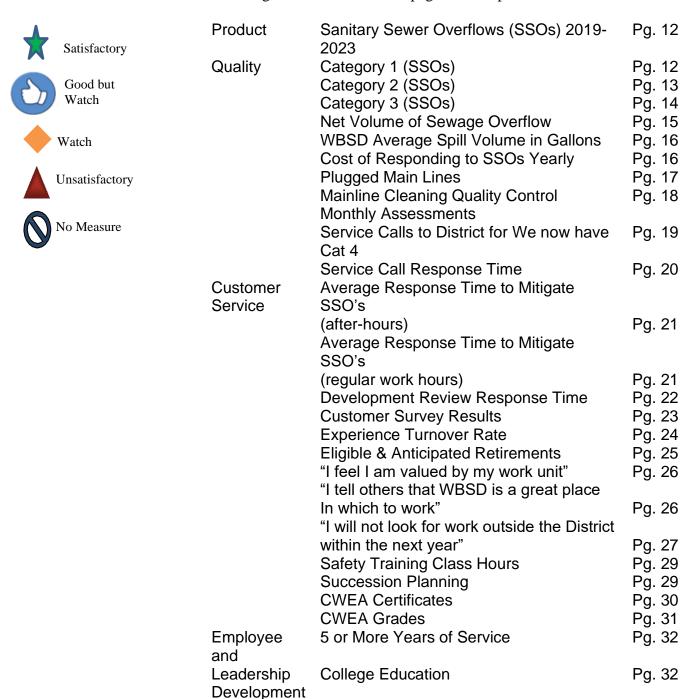
The District successfully began operations of the Sharon Heights Recycled Water Treatment Plant during 2021 and has delivered the Sharon Heights Golf and Country Club more than 151 million gallons of recycled water.



Stakeholder Understanding and Support – While the District has summoned out customer input and engagement through various news articles, the media coverage for the District has increased recently and is generally neutral or favorable regarding the District. The District has long sought out customer input and engaged through customer survey (post service delivery) and through annual newsletter articles in the Almanac. Before the pandemic the District had been increasing its outreach by sponsoring booths at the Chamber of Commerce Block Party, Movie Night, and Facebook picnics and game nights, and CWEA job fairs. In 2023, public events resumed since the Pandemic and District also focused on YouTube and Almanac ads with positive results.

Summary of Measures and Ratings

More information about the specific measures and the rationale for the ratings can be found on the page number provided.



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Performance Measurement Report

For CY 2023



https://westbaysanitary.org/about-us/budget-and-finance-2/

Sanitary Sewer Overflows (SSOs): On December 6, 2022 The State Water Board revised the Monitoring and Reporting Program Guidelines for Sanitary Sewer Overflows by adding a fourth category spill and required written water quality monitoring program for spills greater than 50,000 gallons. There are now 4-Types of SSO categories.

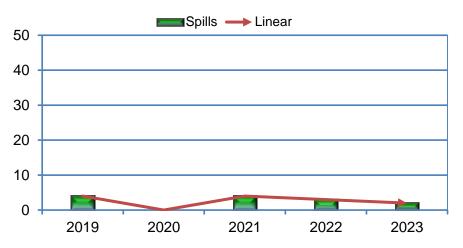
The District's goal is to maintain the sewer collection system so that there are no SSOs. Especially important is to prevent overflows that reach a creek, tributary-drainage channel or other body of water, all of which are considered "Category 1 SSOs." While the overall goal is to prevent all overflows, the interim goal of the District is to have fewer overflows within Region-2 of the San Francisco Bay Area.





Sanitary Sewer Overflow (Spills)

2019 to 2023

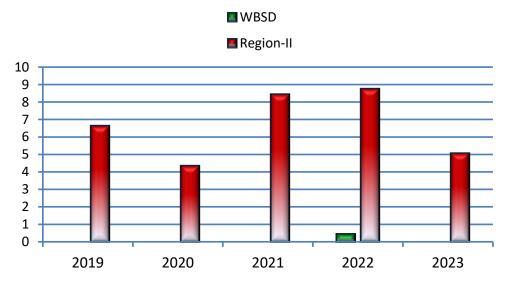


Analysis: Over the last twelve years the District has implemented a rigorous maintenance program to reduce and prevent future spills. The implementation of an aggressive cleaning coupled with the Root Foaming Program in 2010, has resulted in a reduction from 55 spills in 2008 to zero spills in 2020. There were two spills in 2023. This is the nineth consecutive year in the District's recent history to record single digit numbers. The 5-year average is 2.6spills per year.



*Category 1 Sanitary Sewer Overflows (SSOs)

of SSOs Per 100 miles Region 2 San Francisco Bay Area

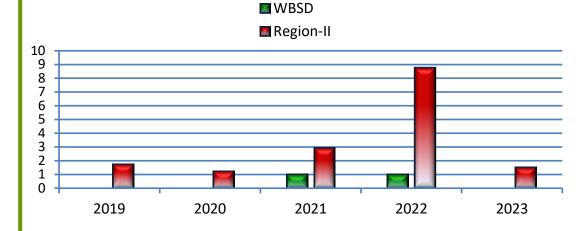


*Analysis: Region 2 had an average of 5.05, Category 1, spills per 100 miles of pipe in 2023. The District had 0 Category-1 spills in 2023, or 0 per 100 miles of pipe.



Category-2 spills: Are greater than 1,000 gallons, have been fully contained, recovered and returned to the sanitary sewer system. The chart below shows the number of Category 2 spills by the District compared to Region 2's sphere of influence.



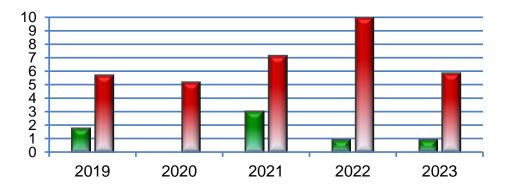


*Analysis: The District had zero. Category type spills in 2023. Region 2 had an average of 1.5 Category 2 spills per 100 miles of pipe.



Category-3 SSO's: Are spills less than 1,000 gallons that have been fully contained, recovered and returned to the sanitary sewer system.

*Category 3 Sanitary Sewer Overflows (SSOs) 100 Miles Per pipe ■WBSD

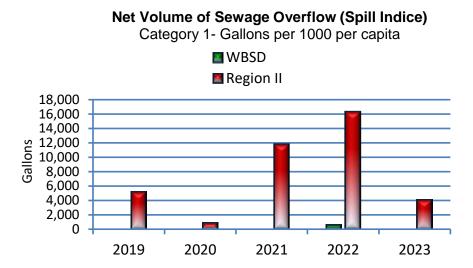


*Analysis: In 2023, the District reported 2 Category 3, or 0.87 per 100 miles of pipe. Region II had 5.82 Category 3 spills per 100 miles of Pipe. This success is due to the Root Foaming Program and increased maintenance by placing all 4, 6, 8 and 10- inch pipes (considered small) on a 12 to 15 month cleaning cycle, as well as using hydraulic root cutter with flexible finishing blades and using proofing skids on water jet nozzles to ensure a thorough cleaning of each line segment.



Volume of Sewage Overflows:

It is the District's goal to prevent Sanitary Sewer Overflows. However, when an SSO occurs, the District strives to respond quickly to prevent as much spillage as possible. This measure is the volume of sewage spilled gallons/1000 capita/yr.

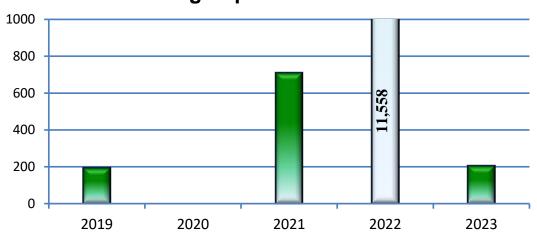


Analysis: The District continue to perform well below the regional average for all Category 1, 2, and 3 classifications. In 2023 the WBSD net volume of sewage overflow for Category 1 – Gallons per 1000 per capita was zero (0) while Region 2 had 4,071 per capita.



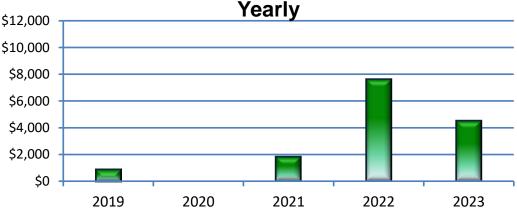
The charts below reflect the average volume per spill and the cost to mitigate each spill. The District's spill volumes have been low in volume due to our customers calling in when a spill is found and our employees' rapid response to minimize the impact a spill could have on creeks, streams, and public health.

WBSD Average Spill Volume in Gallons



Note: in 2022 the District had one significant spill due to Menlo Park Pump Station operations on December 31st. The average spill volume for 2023 was 204 gallons per spill. One spill in 2023 was caused by a failure of materials in the influent pipeline to the recycled water facility at Sharon Heights.



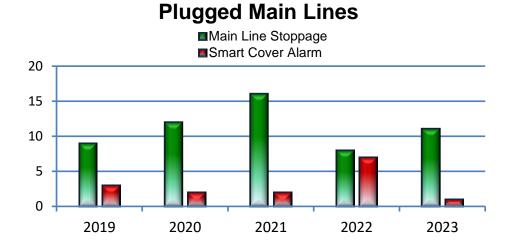




2. Product Quality Service Delivery

Product Quality Service Delivery assesses quality service based on Districtestablished objectives and service level targets. It focuses on non-regulatory performance targets.

• **Plugged Main Lines:** This is the number of sewer mains that were plugged and needed immediate attention but did not result in a Sanitary Sewer Overflow (SSO).



Analysis: The District has made significant improvements in this area and stoppages have dramatically been reduced. A downward trend is indicative of a well-focused maintenance program.

In 2023, the District found 11 plugged mainlines during routine maintenance, and received 1 Smart Cover Alarm. The Smart Cover alarms not only have prevented an SSO from occurring but have also provided an upward "Level Trend" report allowing staff to respond to potential blockages before they occur.

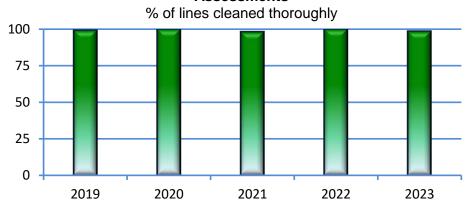
Smart covers have an electronic package attached to the underside of a manhole cover. When sewage levels rise beyond normal levels or if the manhole cover is opened, alarms are generated and sent to District personnel cell phones (typically within 30 seconds). In all instances our employees are able to respond quickly and avert potential spills.



3. Mainline Cleaning Quality Control Monthly Assessments:

CCTV inspections for cleaning assessments were performed on a monthly basis, lines cleaned during Regular PM, and High Frequency PM cleaning cycles. Lines not meeting the standard receive additional cleaning and/or the cleaning methods are adjusted to ensure more efficient cleaning.

Mainline Cleaning Quality Control Monthly Assessments



Analysis: In 2011 mainline cleaning quality control and monthly assessments were implemented. In 2014 we surveyed a total of 60-line segments, and the percentage cleaned thoroughly was 83%. In 2015 we increased the amount of line segments surveyed for quality control from 5 to 6 per month. We also introduced the use of "proofing skids" on all hydro flush cleaners. Proofing skids are placed between the end of the cleaning hose and the cleaning nozzle to ensure that the roots or grease in the pipe is cleaned, at a minimum, to the diameter of the proofing skid. In 2020 the District had 100% quality control. Proofing skids and hydraulic root saw have been the best contributor to these results, coupled with proper maintenance worker training. In 2021, 98% of the lines passed the quality control assessments. In 2022 100% of the lines passed quality control assessments. In 2023 one of the 72-line segments did not pass the assessment.

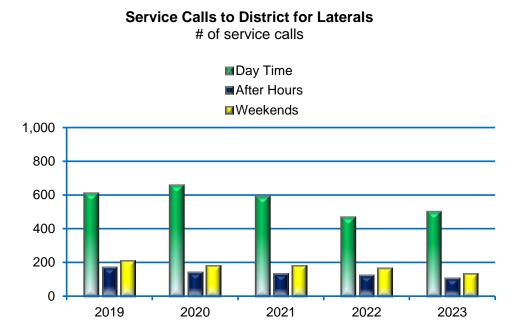




1. Customer Complaints

Customer Complaints assesses the complaint rates experience by the District. Currently, the District responds to Customer Complaints that are received through customer surveys, in-person or via telephone or email.

• **District Service Calls for Laterals:** The District uses the number of service calls for laterals as a proxy for determining customer complaints, as these problems lead to backups. The goal is to see a downward trend in this number.



Analysis: Over the past several years, the District has focused on preventive maintenance, partially in an effort to reduce these types of call outs. In 2018 weekend service calls were up slightly in part due to increased awareness by customers to "Call Us First." Although, the District does not own the laterals, an effort was made in 2019 to reduce the number of lateral service calls due to stoppages, by reassessing the way the District crews clean the private laterals. In 2020 service calls were up during daytime hours and down after hours. Staff attributes this to people working from home during the pandemic. In 2023, weekend and after-hours service calls were trending lower.

2. Customer Service Delivery

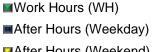
This is a measure of the District's own service level targets as they relate to customer service.

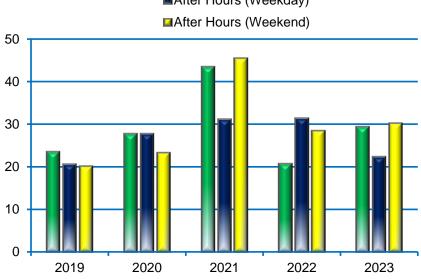
• **Service Call Response Time:** The District maintains a goal of responding to service calls for sewer backups within 45 minutes of the call. This measure shows the average response time within 45 minutes.

★

Service Call Response Time







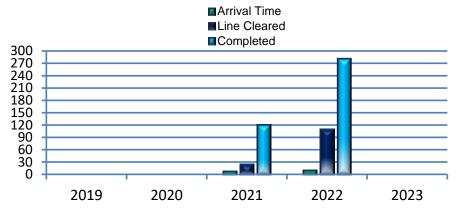
Analysis: The District began tracking the response time requirement, in 2012. The service call response time is facing an ever-increasing challenge due to increased traffic in the area since Meta (Facebook) has begun expanding their employee base as well as other business in the District. Response time was down in 2016 due to the fewer service calls and new on-call employees living closer to the District. In 2019 response time was reduced again, this time to the lowest response time on record. In 2021 the District continued to use the Vallombrosa Center in Menlo Park for some of its on call personnel which assisted in keeping the response time low. In 2021 the response time increased slightly because of the newer, less experienced staff. The response time decreased in 2022 and 2023, due to the continued use of Vallombrosa Center and a more experienced staff.

• **SPILL Response Time:** In 2008 the State Water Board amended the WDR by requiring a "2-Hour Reporting time frame" on SSO's impacting a water body. To ensure the District met this requirement, staff members living within a 35 mile radius from the District were allowed to take the District "Response" vehicle home, allowing them to be on sire within 45 minutes, mitigate the SSO, call in additional resources if needed and complete the operation within the 2 hours reporting requirement of the WDR.



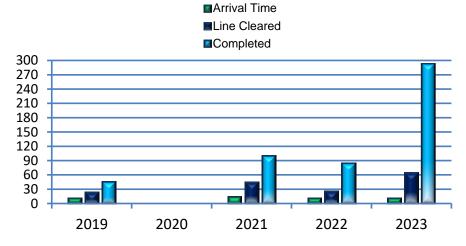
Average Reponse Time to Mitigate SSOs

(After hours - Minutes)



Average Response Time to Mitigate SSOs

(Regular Hours - Minutes)



Analysis: Both spills occurring in 2023 were found by staff during regular working hours. The response time is the arrival of additional resources. The "Completed Time" is higher this year due to the fact of a force main needing to be hydro excavated in two spots to find the defect. The work proceeded into after hours.



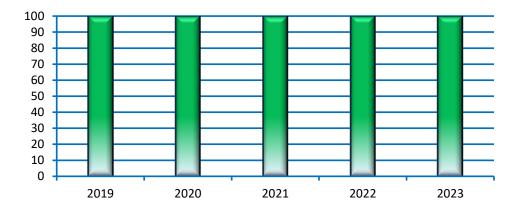




3. Development Review Response Time: The District maintains a goal of completing review of development within 30 days for receipt of the plans. This chart shows the percentage of plans that were reviewed and returned within that goal.

Development Review Response Time

% of plans reviewed within 30 days



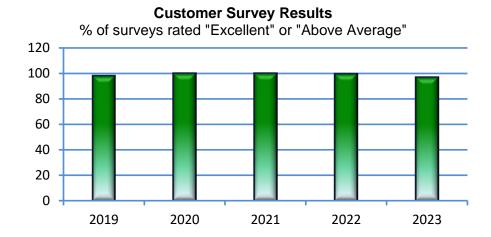
Analysis: Over the past five years that this data was captured, the percentage of plans reviewed within the goal of 30 calendar days have been achieved. The Department has also established and strengthened expectations among staff regarding the 30-day goal.



3. Customer Satisfaction

This is an overarching customer satisfaction measure based on requested customer feedback (surveys), not calls received or internal customer satisfaction service level commitments.

• Customer Satisfaction: This is the measure of how well District staff performed according to the customer who was directly impacted by that work.



Analysis: Customer satisfaction is a measurement of customer survey results on an annual basis over the past 5 years. The goal is to achieve greater than 90% of the surveys received rating the District Excellent or Above Average. The goal was achieved for all the previous 5 years. In 2010 we began counting calls that we responded to where the home was on the Main Line Only Service List (MLO). This resulted in lower overall scores in recent years but is a more honest reflection of customer satisfaction. In 2018 customer survey results measured 99% Excellent or Above Average. In 2022 99.7% measured Excellent or Above Average and in 2023 measured 96.8% down slightly due to the District property line clean out policy. Some customers give a negative rating when they are told they need a property line clean out before staff can provide a courtesy cleaning.

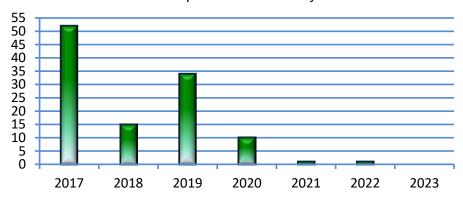


1. Employee Retention and Satisfaction

This measure gauges the District's progress toward developing and maintaining a competent and stable workforce.

• Experience Turnover Rate: This is the percentage of years that retiring employees worked at the District compared to the total number of years of experience for all employees. It measures the amount of experience lost in any given year due to retirements at the District.

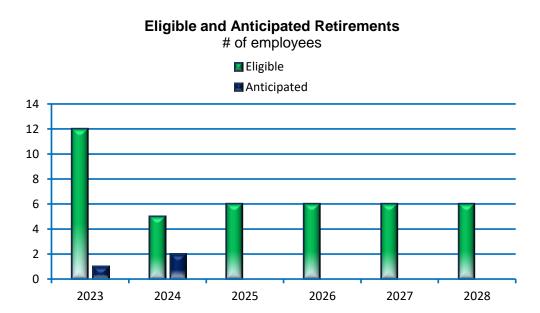
Experience Turnover Rate % of experience lost each year



Analysis: Most employees who left employment from the District did so through retirement. Anticipated retirements have been addressed through the succession plan implemented in 2015. In 2017 two District employees retired with a total of 52 years of experience. In 2018 one District employee retired with 28 years of service. In 2019 two employees retired with a total of 34 years of experience and in 2020 the District Manager retired with 10 years of West Bay experience. In 2021 the District saw one retirement in the Maintenance Department and in 2022 there was one retirement in the Engineering Department. There were no retirements in 2023.

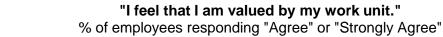


The experience turnover rate from retirements at the District is not a controllable measure, and as such this is not a performance measure as much as it's a data set that helps to inform whether there are trends in the workforce to which management needs to respond. Eligible and anticipated retirements for the next 5 years are as follows:

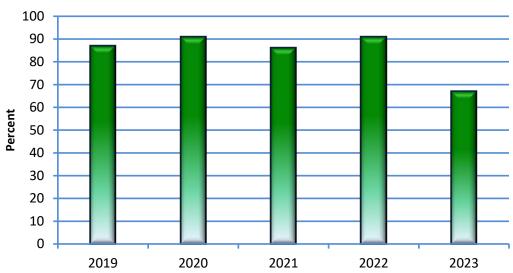


Analysis: There is nothing in the data to suggest that employees are retiring faster than would normally be expected.

• Employee Survey Response: The following charts show the response to three questions asked during an annual employee survey. These questions are designed to gauge employee satisfaction.

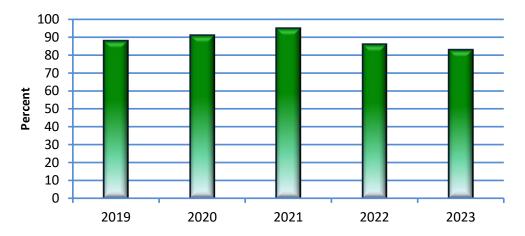






"I tell others that WBSD is a great place in which to work." % of employees responding "Agree" or "Strongly Agree"

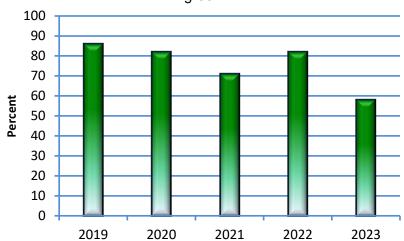






2019-2022: "I will not look for work outside the District within the next year." 2023: "I will look for work outside the District within the next year."

% of employees responding "Agree" or "Strongly Agree"



Analysis: 2011 was the first time the District surveyed its employees on these three attributes. They were graded "watch" (orange diamond) only because of the lack of data to determine whether there is an upward downward or stable trend at the District in the area of employee retention and satisfaction. In 2014 responses increased positively "telling others WBSD is a great place to work" and "I will not look for work outside the District within the next year." In 2015 we saw an over 10% decrease in this survey possibly due to the ongoing union negotiations and longer travel times to the District. The 2016 results indicate employee satisfaction with a positive increase of 10% compared to the previous year. In 2023 the survey question was changed for clarity asking "I will look for work outside the District within the next year." 59% of staff responded they agree or strongly agree. The answers to the questionnaire could be a result of recent contract negotiations or the cost of living in the Bay Area.







2. Management of Core Competencies

This measure assesses the District's investment in and progress toward strengthening and maintaining employee core competencies.

- Vocational Training: The District has focused intently on providing vocational training and certification that would provide recognition of levels of competence of certificate holders. The training program has resulted in approximately a 60% increase in certificate holders and many of the certificate holders have progressed in the grade level of the certificates (i.e. from Grade I to Grade II and so on) thus increasing their vocational proficiency. Additionally, staff has assisted the Menlo Park Fire District in trench rescue training (a 24 hour long certified course in 2012 and 2015) and provides training to members of their Local Section and the CWEA on a regular basis. The District has 96% or 22 of 23 field maintenance and water quality employees certified in CWEA that are significantly involved with system operations.
- Management Training: Management receives increased training on policies, regulations, and Coaching and Mentoring techniques. New and revised policies are developed collaboratively with management staff and affected staff trained on the changes. Regulation updates are regularly presented and discussed in monthly management meetings and any required changes in procedures are planned for by management staff and implemented within the work teams. The District Manager has an ongoing program to work with the management team to incorporate Coaching and Mentoring techniques in their management style. Techniques such as employing SMART Goals, providing substantial Performance Reviews, Constructive Feedback, Tutoring with Questions, Performance Improvement Plans, and more are taught and implemented. The District sent 2 employees to first line supervisor training management topics such as evaluations, discipline, harassment, etc.

The District implemented a succession plan in 2015, and revised it in 2018, that requires each manager to work on training subordinates to perform duties that would prepare them for promotional opportunities. This is one component of the succession plan that will help the District in making smooth transitions when senior employees retire without loss of institutional knowledge while enhancing employee retention.

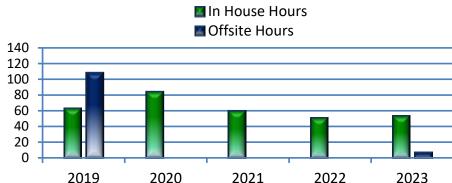
The District also works to enhance employee's computer skills to help stay abreast of software and technology changes. This gives the District a business advantage in manipulating, acquiring, storing and interpreting data, as well as video information and GIS mapping. The total training hours graph includes time in formal computer training sessions and CWEA.



• **Total Training Hours**: This is the total training hours provided in-house and participating off-site at CWEA Vocational Training programs to employees of the District.

Safety Training Class Hours

% of hours per employee per year



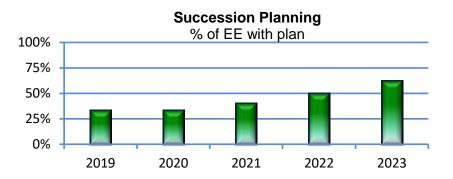
Analysis: Training hours now include hours of training performed or made available through outside associations such as California Water Environment Association. The total number of training hours will also increase in years with first year employees and then decrease slightly as they become more proficient. Field crews were sent to approximately 60.5 hours of safety training in 2021 and all were on-site, via zoom due to the COVID-19 Pandemic. In 2023 in house training has remain stable, however, off site training is still down.

3. Workforce Succession Preparedness

This measure assesses the District's long-term workforce succession planning efforts to ensure critical skills and knowledge are retained and enhanced over time, particularly in light of anticipated retirement in future years. Focus is on preparing for workforce succession, including continued training and leadership development.

• **Succession Planning**: Percentage of key positions covered by long-term workforce succession planning.

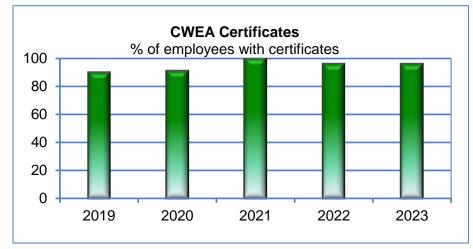
Succession planning includes many facets, typical indicators to watch for are employee(s) (EE's) years of experience with the District, vocational certificates, college education levels, EE's with career development goals, and EE's feeling of readiness for advancement.



While assessing the succession plan will be somewhat subjective, overall the succession plan contained several positive components. One component of the succession plan was to recruit and hire replacement staff for key positions such as the Operations Superintendent, Pump Facility and Field Supervisor before the incumbents retired so as not to lose institutional knowledge. In 2020 the Water Quality Manager and the Operation Superintendent participated in succession planning.

The District's cross training efforts paid off in 2023. Two Tech positions, Rehab and CCTV, were able to easily step into the Field Supervisor roles when the Supervisors were out sick or on extended vacations. Three maintenance workers were able to fill the Tech positions and the crew's production continued at a high level. When a cleaning supervisor was off with a personal injury his duties were covered by a combination of the Pump Mechanic and a well-trained Maintenance Worker.

In 2023 twelve CWEA certificates were achieved. Two of the certificates were Collection System Grade 4, which is the highest level in the certification process. By December 2023, twenty two of the twenty three maintenance staff held a certificate in their related field.





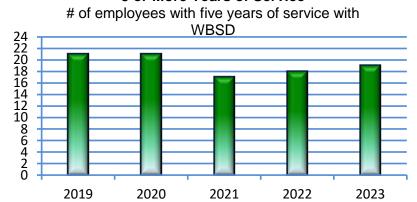








5 or More Years of Service



College Education# of employees with two and four year degrees

2 Year **4** Year 11 10 9 8 7 6 5 4 3 2 1 0 2019 2020 2021 2022 2023

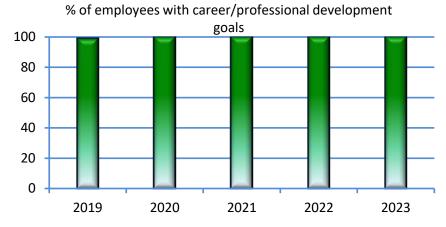




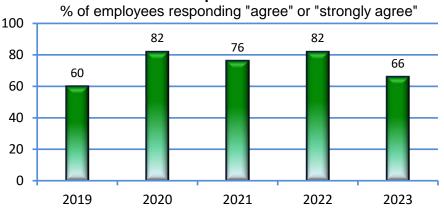








"I feel ready for my next promotional level or position."



Analysis: In 2010, management implemented a new performance evaluation form to include written goals and objectives written collaboratively by the employee and their supervisors to set short term and long term goals. Since 2012 staff has been cross trained in the maintenance department including CCTV inspections. In 2018 staff were trained in the source control and construction and rehabilitation departments. In 2020 two new employees were trained in pump maintenance. One employee was promoted to Pump Facility Supervisor and another was promoted to Pump Station Mechanic. In 2022, the Pump Maintenance Mechanic was promoted to Field Supervisor. In 2022 a new, Utility Worker position was created and filled. In 2023 positions remained stagnant and no promotions occurred. This may explain why only 66% of people surveyed feel ready for their next promotional opportunity. The District will continue to encourage education so that less experience personnel become ready for promotional opportunities.

EUM Attribute #4 Resource Optimization

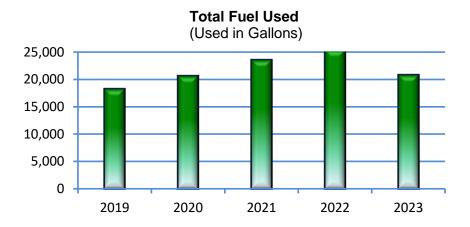






Resource Optimization: This measurement examines resources used efficiently, including labor, supplies & service. The District tracks such items as:

- <u>Cost of Cleaning Sewer Mains Per Foot:</u> The District's burdened rate is approximately \$0.88 per foot including overhead.
- <u>Labor Savings Ideas Put In Use:</u> The District has realized savings from changing cleaning routes; by focusing on area cleaning (or basin by basin cleaning) on a 3 year schedule and localizing "High Frequency Cleaning" to areas to minimize mobilization and travel time.
- Fuel Savings: In 2015 fuel usage decreased to a 5-year low to 12,612 gallons due to rescheduling pipe cleaning, so the crew would drive even less than they were before. In 2016 fuel usage increased to 15,627 gallons due to more aggressive cleaning schedules and the Los Altos Hills and the Town of Woodside contracts. In 2017 fuel usage was 17,098 gallons. The increase may be due to more cleaning and T.V. efforts in Los Altos Hills and an increase in USA calls for markings. In 2018 fuel usage was17,427. Fuel usage in 2019 was 18, 201 gallons. This was when the commuter program began. From 2020 to 2022 fuel use was up due to the pandemic. The increase was due to participants of the commute program commuting via district vehicles because the train schedule to the valley was limited during the COVID-19 pandemic. The commuter program is now back to normal and the District realized a decrease in fuel usage in 2023 of approximately 5,000 gallons of fuel per year. The introduction of EVs also contributed to this fact.



EUM Attribute #4 Resource Optimization



• <u>Savings in Purchases:</u> Co-operative purchases have resulted in significant savings, including:

| Vehicle Unit No. | *M.S.R.P. (Price Inc. Tax & Delivery) | Actual State or HGAC Cost | Savings |
|-----------------------------|--|------------------------------|-------------|
| Unit 207 – Proj. Mgr. | \$40,270 | \$36,589 | \$3,681 |
| Unit 202 – Asst. Supt. F250 | \$45,158 | \$32,226 | \$12,932 |
| Unit 213 Transit | \$26,761 | \$24,953 | \$1,826 |
| Backhoe | \$126,843 | \$121,691 | \$5,152 |
| Unit 208 Service Truck | \$63,800 | \$53,00 | \$7,500 |
| Unit 216 CCTV | \$350,000 | \$265,8000 | \$84,200 |
| Unit 205 Aquatec | \$369,000 | \$334,768 | \$34,232 |
| Unit 214- Source Control | \$44,000 | \$29,000 | \$15,000 |
| Unit 217- 3Ton Pump Truck | \$41,000 | \$31,000 | \$10,000 |
| Unit 210 -5Ton Pump Truck | \$48,000 | \$47,000 | \$1,000 |
| Unit 206 Superintendent | \$45,000 | \$30,000 | \$15,000 |
| Unit 220- F550 Flatbed | \$59,000 | \$54,000 | \$5,000 |
| Unit 220 – Jetter only | \$53,500 | \$45,000 | \$8,500 |
| K2 Easement Camera | \$90,500 | \$60,000 | \$30,500 |
| Unit 211 – Inspector Truck | \$36,850 | \$31,721 | \$5,129 |
| Unit 221 – Pipehunter | \$263,943 | \$242,352 | \$21,591 |
| Unit 224 – F250 Pickup | \$42,270 | \$34,801 | \$7,496 |
| Unit 206 – Supt. Pick Up | \$50,636 | \$46,794 | \$3,961 |
| Unit 208 – Service Truck | \$51,353 | \$42,801 | \$8,552 |
| Unit 221 – ½ Jetter Unit | \$260,854 | \$213,410 | \$47,444 |
| Unit 228 – ½ F550 US Jetter | \$171,460.92 | \$131,500.22 | \$39,960.70 |
| Unit 232 - E Ford Lightning | \$70,508 | \$64,640 | \$5,868 |
| Unit 233 - E Ford Lightning | \$70,508 | \$64,640 | \$5,868 |

MSRP was taken from the Ford website and vendor's retail prices.

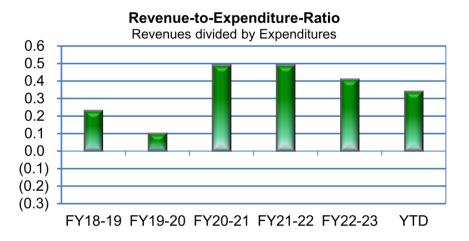
Analysis: The District makes a considerable effort to make large purchases through the Bid Process or by using co-operatives to make sure the District obtains the best price for its necessary products and equipment. In 2019 Units 206, 208 and 221were replaced. A total of \$59,957 was saved by using the STATE bid cooperative. In 2021, \$39,960 was saved. In 2023, \$11,736 was saved on the two vehicles purchased.

EUM Attribute #5 Financial Viability

1. Budget Management Effectiveness

This measure includes commonly used financial performance indicators to show the short-term health and long-term financial trends of the District.

• Revenue-to-Expenditure Ratio: This ratio is total revenue from all sources divided by total expenditures, including debt service, but excluding depreciation, minus 1. This ratio shows the annual impact to fund equity. A ratio below 0 means that there were more expenses than revenues in that year, while a number above 0 means there was more revenue than expenditures. The ratio can fluctuate above and below 0, depending on the financial plan for the year. A positive ratio shows the funding available for capital. A long-term trend of expenditures greater than revenues (a ratio of less than 0) is problematic and indicative that reserves are being used to finance the ongoing expenses of the District and that a course correction is likely.





Analysis: The Revenue to Expenditure Ratios were stable through 2017-18, decreasing by half in 2018-19 and again in 2019-20, due to cash paid in lieu of additional debt for the 2018 Bond with Silicon Valley Clean Water (SVCW). The District paid an additional \$6.6 million in 2018-19 and \$6.4 million in 2019-20, reducing the Revenue to Expenditure Ratio to 0.23 and 0.13, respectively. From 2020-21 to present, the ratio increased to a healthy level to providing \$10 to \$9 million in annual funding for capital.

EUM Attribute #5 Financial Viability

• Capital Expenses Compared to Operating Expenses: Capital expenses as a percentage of operating expenses (less depreciation) is a measure that has meaning only when compared against itself over time, or compared to other similar agencies. An upward trend is indicative of an expansion period or a period focused on renewal and replacement of capital assets, while a downward trend is indicative of decreased growth or less investment in system renewal and replacement.

Capital Expenses as a Percentage of Operating



20% 15% 10% 5% 0%



Analysis: The District 's new Master Plan includes \$166 million over 10 years. Annual capital expenditures were low, due to pandemic shutdowns from 2020 to 2021. The District plans on increasing capital expenditures to \$89 million in the next four years to complete projects carried over or delayed during this slowdown. A total of \$18.3 million has been spent during the past 5 years on capital, excluding recycled water projects.

FY18-19 FY19-20 FY20-21 FY21-22 FY22-23

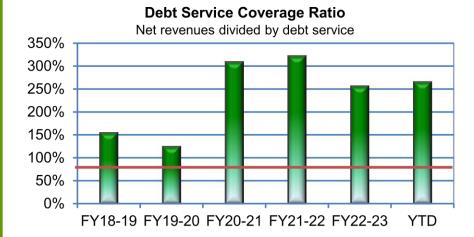
Note: The District expensed \$25.7 million on recycled water projects, including the \$22.6 million Sharon Heights Recycled Water Facility. Sharon Heights Golf & Country Club (SHGCC) is responsible for the debt service payments on the SRF loan that was acquired to fund the project through a long-term agreement with the District.



YTD

EUM Attribute #5 Financial Viability

• **Debt Service Coverage Ratio**: The ratio is a measure of all revenue sources minus all operating expenses (excluding depreciation and debt service) divided by total debt service.





Analysis: The District carries no debt for General Operations. The District has a Recycle Water Facility SRF loan, which is paid through a long-term agreement with Sharon Heights Golf & Country Club (SHGCC). As a member of Silicon Valley Clean Water (SVCW), a JPA for wastewater treatment, the District is obligated to pay its share of debt for bonds and SRF loans secured by SVCW. Using the District's share of SVCW debt service, the District has a 184% average ratio over the prior five years.

The District's \$17 million Clean Water State Revolving Fund (SRF) loan for Sharon Heights Recycled Water Facility, is pre-funded each year by SHGCC, which also pay the operation and maintenance costs in exchange for recycled water for irrigating the golf course. The current SRF loan balance is \$15.6 million.

EUM Attribute #5 Financial Viability



2. Financial Procedure Integrity

These are questions that gauge the presence of "best practices" and internal processes to ensure a high level of financial management integrity.

• Does the District have financial accounting policies and procedures? (Y/N)

Yes. The District reviews and revises policies, as necessary. The District updates accounting procedures, as they change to improve efficiencies.

Are the financial results and internal controls of the District audited annually?
 (Y/N)

Yes. The District is required to conduct an annual external financial audit, which is reviewed and approved each year, including internal controls.

• Have the number of control deficiencies and material weaknesses been reduced from previous audits? (Y/N)

The management letters in the audit reports have stated that no control deficiencies or material weaknesses were found in any of the years contained in this report (FY 2017-18 through FY 2022-23).

• Has the District established rates that fully consider the life-cycle cost of service and capital funding options? (Y/N)

Yes. Rates are set based on capital improvement needs and SVCW operational and capital needs. Rate studies do consider operational and life cycle capital costs.

• Does the District maintain a rate stabilization reserve to sustain operations in addition to operating reserves? (Y/N)

Yes. The District created a Rate Stabilization Reserve in October 2015, which is fully funded at \$10 million. In addition, the District maintains a Operating Reserves equal to six months operating budget, an Emergency Capital Reserve, a Capital Project Reserve, and a Recycled Water Cash Flow Reserve. The District added a Treatment Plant Reserve in August 2021, to build reserves for additional treatment plant capital requirements and avoid additional debt through Silicon Valley Clean Water (SVCW). The District has total reserve targets of \$59 million, as of December 31, 2023, and \$89 million in funds. A portion of these funds have been allocated in contracts for the CIP.

Analysis: Sewer Service Charges (SSC's) constitute 96% of District revenues over the last five years, with approximately 81% of that revenue from residential customers. Most SSC's are collected as an assessment on the property tax statements. The establishment of reserves allows the District to provide financial stability.

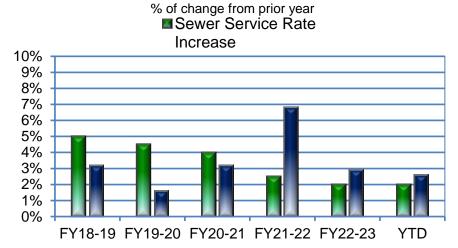
EUM Attribute #5 Financial Viability

3. Rate Adequacy

These measures help the District consider its sewer service rates relative to factors such as external economic trends, short-term financial management, and long-term financial health.

• Sewer Service Charges Compared to Inflation: The annual increase in sewer service charges (SSC) compared with the Consumer Price Index for all Urban Consumers (CPI-U) in the San Francisco/Oakland/San Jose area.

Sewer Service Charge Compared to Inflation



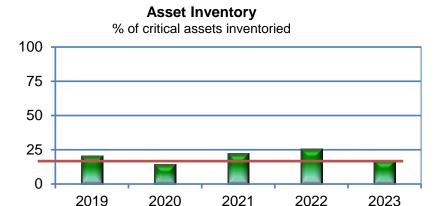
Analysis: Sewer service charge increased an average of 3.9% over the last five years. The 6.3% increase in FY 2023-24, was a result of keeping increases low during the pandemic and higher operating expenses. Projections to account for inflation and increasing debt with SVCW will require higher increases and/or use of rate stabilization reserves.

1. Asset Inventory and Condition Assessment

These measure gauges the District's efforts to assess assets and asset conditions, as a first step toward building a comprehensive asset management program.

• **Asset Inventory**: This is the percent of the District's critical assets that have been inventoried within the past 5-10 years.



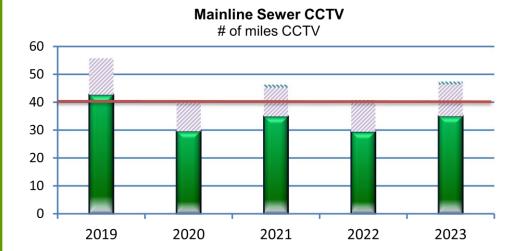


Analysis: The District inventoried all assets in 2010 in preparation for the 2011 Collection System Master Plan. In 2011 we re-assessed by visually inspecting approximately 25% of our assets by CCTV in miles of pipes and manholes. 14 miles were done by an outside contractor in 2011 approximately 23% of our assets were re-assessed. The remainder of the re-assessments were all performed in-house. The annual goal is now 16% per year. In 2023 District crews re-assessed 17% of the system.



• Sewer Main Condition Assessment: This graph shows the percent of sewer main lines that are video inspected each year and assessed for condition and maintenance problems.





Analysis: The District has renewed its focus on CCTV and invested in maintaining proper inventory, spare CCTV cameras and setting SMART goals for productivity. As a result, CCTV inspection performance has dramatically improved and productivity increased over the last 9 years. In 2020 the District's CCTV crew inspected 29.6 miles of pipe in the District as well as 11.2 miles in Los Altos Hills (LAH) and the Town of Woodside (TOW). The total miles of CCTV is lower in 2020 because this operation was shut down for 2 ½ months and the crew focused on cleaning because of the unknown effects of the COVID-19 Pandemic. In 2023 the Districts CCTV crew inspected 35 miles of pipe in the District as well as 11.4 miles in LAH and 1 mile in Woodside.

(The shaded areas on the bar graph represent the CCTV footage for LAH and TOW).

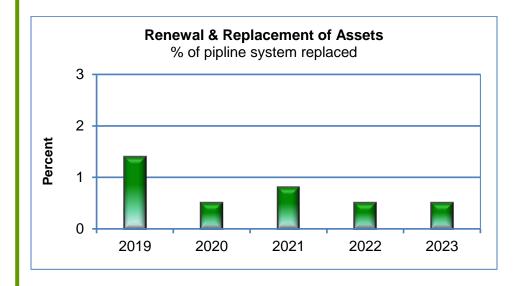




2. Asset Renewal/Replacement

This measure assesses asset renewal/replacement rates over time. The measure should include targets, based on the District's determination of acceptable risk for different asset classes.

• Renewal & Replacement of Pipeline: This graph shows the amount of pipeline actually renewed or replaced as a percentage of the total pipeline infrastructure in the District.

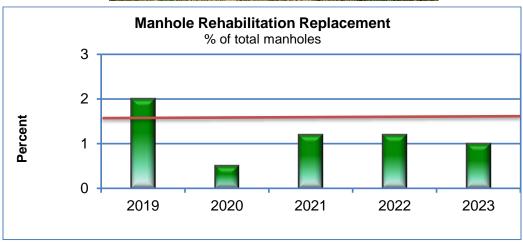


Analysis: The District should be replacing between 1% to 2% of its pipeline assets, on average a year, through renewal and replacement of those assets. The planned Capital Improvement program was increased in 2024 and is scheduled to continue over the next 10 years. By maintaining appropriate funding for CIPs and maximizing dollars by rehabilitating pipe via cured in place pipe when possible the District can make progress on the back log of pipeline repairs with the ultimate goal of replacing pipelines before exceeding their useful life. In 2023 .5% of the District's system was replaced.

• Manhole Rehabilitation/Replacement: This graph shows the amount of manholes rehabilitated or replaced as a percentage of the total manholes within the collection system (5,000 manholes).







Analysis: The District should be replacing/rehabilitating 1.5% to 2% (75-100 manholes) of its manholes through the CIP program, and has been achieving this goal the last several years. In 2020 the District replaced and rehabilitated 25 manholes or 0.5% and 58 manholes or 1.1% in 2022. In 2023 the District replaced and rehabilitated 52 manholes or 1%.

A

3. Collection System Integrity

This measure examines the frequency of collection system failures. When tracked over time, the District can evaluate whether the rate is increasing, stable or decreasing.

- Collection System Failure Rate: A collection system failure is when a portion of sewer pipe collapses and flows become obstructed or uncontained from that collapse, rather than being caused by sediment, grease, roots or some other foreign object.
 - 2019 6" VCP Oakley Ave and Alameda De Las Pulgas Pipeline Failure.
 - 2017 Alameda & Campo Bello Pipelines Failure
 - 2010 –24" CMP on Haven after contractor had struck pipe, years prior.
 - 2009 Cotton Avenue Pipeline Failure in 2009.

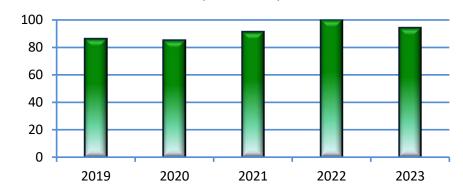
Analysis: There are so few of these types of failures that a graph would not be meaningful. The District's record of failure rates is outstanding with zero from 2020 through 2023.





• Collections System Repairs: This is the total number of open-trench repairs made to the collection system by staff.

Collection System Repairs# of open-trench repairs



Analysis: With an improved CCTV inspection program, management has renewed its focus on repairing sewer lines in-house and dedicates three full-time staff to perform open-trench repairs safely and efficiently. In 2015 District crews performed 90 open-trench repairs with a contract value of \$720,000 based on \$8,000 per contractor repair pricing. The Districts costs were approximately \$625,000, including paving. In 2023 the crews performed 94 open trench repairs. Contractor pricing is approximately \$14,500 currently per repair. District costs are approximately \$7,000 per repair.

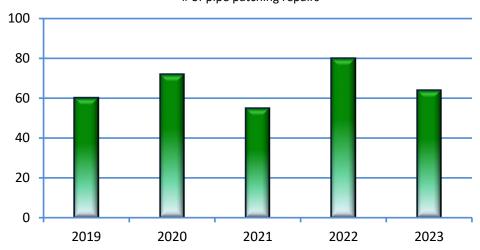






• Collections System Pipe Patching: This is the total number of Cured In-Place Pipe liner type repairs made to the collection system by the staff without excavating the street. This method saves asphalt, permit and labor costs.





Analysis: The pipe patch program was implemented in 2010 and staff has been successful repairing sewer lines without open-cut trenching when possible. This method not only saves costs but reduces risk to the workers. The pipe patching method is allowing the District to maintain and improve its collection system's integrity. In 2023 the crews patched 52 spot repairs in the District as well as 12 pipe patch repairs in LAH. Contractor pricing is approximately \$3,520 currently per repair. District costs are approximately \$1,400 per repair.

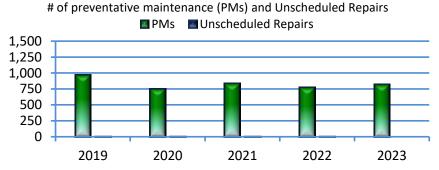


4. Planned Maintenance

Planned maintenance includes both predictive and preventative maintenance, and is performed according to a predetermined schedule and goals rather than in response to failure. Predictive maintenance is initiated when signals indicate that maintenance is due, specifically for Pump Stations. All other maintenance is categorized as preventative, specifically for maintenance performed to the Collection System.

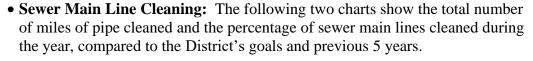
• Lift Station Planned Maintenance Ratio: The chart below indicates Preventative Maintenance Repairs (PM) and Unscheduled Repairs performed throughout the year. There is a direct correlation between the number of Preventative Maintenance Repairs and low number of Unscheduled Repairs. As the crew performs more PM Repairs, less Unscheduled Repairs need to be performed in an emergency situation thus improving the planned maintenance ratio. Since West Bay adopted a "predictive maintenance strategy" more repairs are being performed before components fail.

Lift Station Planned Maintenance



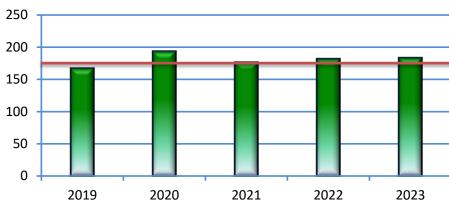
Analysis: Reliable data for this measure starts in 2011. Prior to 2011 such PMs or repairs were not being tracked in this manner. In 2017 crews performed 1265 PMs and only 8 unscheduled repairs. As more and more pumps and valves are replaced according to a schedule and predictive measures, less "unscheduled" repairs are required. In 2019 crews performed 967 PMs and 6 unscheduled repairs. The drop in PMs was partly attributed to the elimination of the Corte Madera Pump Station. In 2020 the crew performed 754 PMs and 5 unscheduled repairs. The high turnover of the Pump Crew personnel in 2020 is attributed to the lower number of PMs because of necessary training. In 2022 the crews performed 774 PM and only 1 unscheduled repair as well as 152 PMs under contract with the TOW and LAH. In 2023 821 PMs were performed at the District with zero unscheduled repairs. An additional 152 PMs and 2 unscheduled repairs were performed at TOW and LAH.





Sewer Main Line Cleaning

of miles of pipe cleaned in total District Goal :-









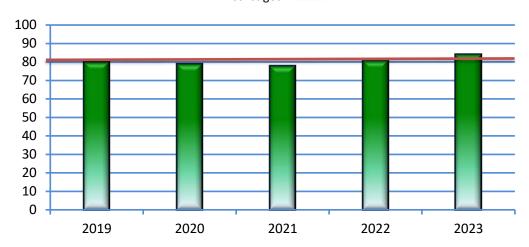
Analysis: In 2014 we began to clean 4", 6" 8" and 10" pipes on an annual basis, based on the fact that our SSOs were from smaller diameter pipe and a more aggressive root growth during the recent drought. In 2019 crews cleaned 167 miles of pipe. In 2020 the crews cleaned 193.6 miles of pipe due to the Pandemic where CCTV crews did not CCTV rather, they were placed on a cleaning crew at the onset. In 2023 the crews cleaned 183.3 miles of pipe and 27.7 miles under contract with TOW and LAH.



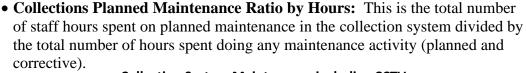
Routine Basis Cleaning

% of system cleaned on "routine" basis

District goal:



Analysis: The District has increased its efforts in preventative maintenance and cleaning of sewer mains over the years. In September 2013 crews finished cleaning the entire system for the first time. In May of 2014 crews began to clean all small pipes (4-10 inch size) every 12-15 months in order to reduce SSO's even further. In 2019 crews cleaned an equivalent of 80% of the system, resulting in only 4 SSO's. 2 SSO's were caused by contractor error and vandalism. In 2021 the crews cleaned 78% of the entire system. In 2022 the crews cleaned 80.8% of the entire system. In 2023 the crews cleaned 84.2% of the entire system, resulting in only 2 spills, well below the State's average spill rate.

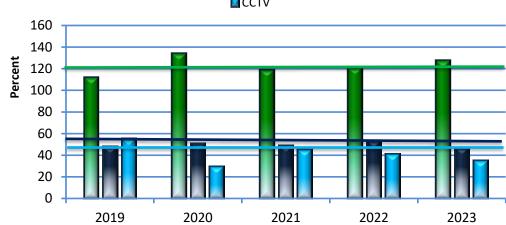


Collection System Maintenance including CCTV

Miles Planned Maintenance for the following 3 Categories of work







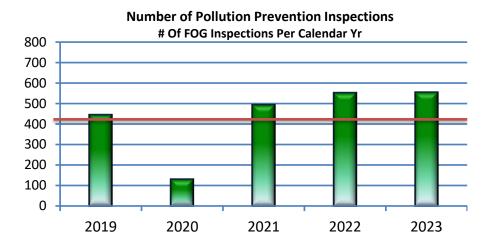
Analysis: This data represents 3 collection system categories. PM (basin to basin) cleaning, high frequency cleaning and CCTV operations. In 2021crews clean 118.7 miles of pipe, 49 miles of high frequency, and 34.9 miles of CCTV (in addition to 28.8 miles cleaned and 11.4 miles CCTV for TOW and LAH under contract). In 2022 the crews cleaned 120.9 miles of pipe, 53.6 miles of high frequency and 29.5 miles of CCTV. In 2023, the crews cleaned 127.7 miles of pipe, 47.1 of high frequency and 35 miles of CCTV (in addition to 27.7 miles cleared and 11.4 miles CCTV for TOW and LAH). The reason high frequency cleaning has decreased is due to pipeline repairs. These pipe segments no longer require high frequency cleaning.



5. FOG Program:

The fats, oils and grease (FOG) program includes food establishments and other businesses to reduce FOG in the collection system.

• Pollution Prevention Inspections: Pollution prevention inspections ensure that restaurants and other businesses are properly maintaining their grease traps/interceptors and oil water separators while following Best Management Practices. Properly maintaining this equipment results in fewer corrective maintenance problems in the collection system related to Fats, Oil and Grease (FOG). The number of inspections per bar in the chart is inclusive of FOG inspections only and does not include commercial or industrial inspections.



Analysis: This program began in 1992. A concerted effort was implemented in October 2011 to increase the number of inspections and re-inspections of restaurants and facilities, to encourage the proper maintenance of devices and other Best Management Practices. 555 inspections were performed in 2023 with a 99.6% compliance rate. This new goal was recently included in the Performance Merit Pay Program.

1. Total Recordable Incident Rate:

This is the number of work-related injuries and illnesses times 20,000 divided by the number of employee hours worked. This is the standard formula used by OSHA to normalize data. The 200,000 represents 100 employees working 40 hours per week, 50 weeks per year, and provides for the compatibility of incidence rates.

Reccordable Incidents # of work-related injuries State Avg. 2019 2020 2021 2022 2023

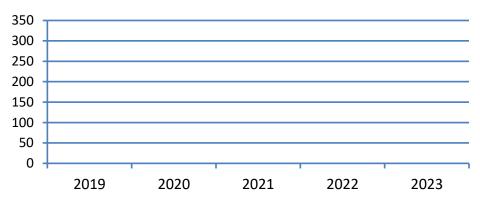
Analysis: The District is compared here to the "Utility: Sewage Treatment Facility" industry category as reported by the U.S. Bureau of Labor Statistics. The District's incident rate is below the state average in California for our industry. In 2023 there were 2 reportable injuries and to date the 2023 state average has not been released.



Lost Time Hours: This is the number of hours that a worker could not work due to a work-related injury or illness. Lost time begins to accrue once an employee misses one full day of work.



Lost Time Hours # of hours lost to injury



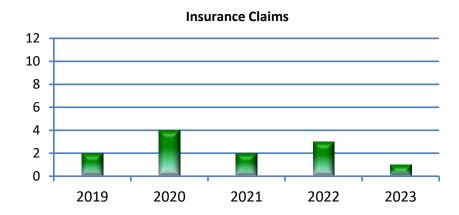
Analysis: In 2023 the District had zero Lost Time incidents. As of December 31, 2022 the District has gone 2366 days without a Lost Time Accident or 6.48 years. The previous record for days without Loss Time is 1447 or 3.96 years.

*

2. Insurance Claims

These measures examine the number, type and severity of insurance claims to understand insurance coverage strength or vulnerability.

• **Number of Insurance Claims:** This is the number of general liability and automobile liability claims per year.

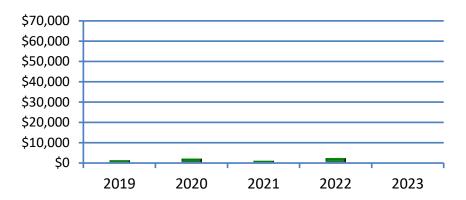


Analysis: In 2019 the District had two claims (one auto, one sewer backup) and in 2020 it had 4 auto claims. In 2023 the District had one claim auto claim

• Severity of Insurance Claims: This is the total amount paid out for general liability and automobile liability claims per year.



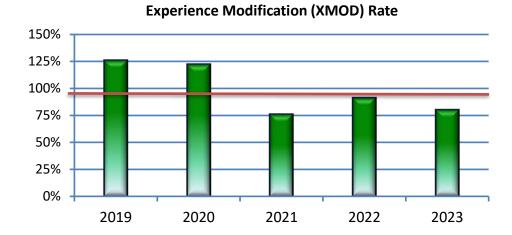
Severity of Insurance Claims



Analysis: The District continues to maintain a lower rate of insurance claims over the past several years. In 2018 the District had two claims for a total cost of \$1069.60. In 2019 the District had claims totaling \$342 and in 2020 the District had claims totaling \$4,754. In 2023 the District had one claim with costs totaling the District \$0.

Experience Modification (XMOD) Rate: This is the rate used by the Worker's Compensation Insurance Company to determine the Districts workers compensation experience. One hundred is considered the industry average, while numbers below 100 are better than the average.





Analysis: In 2019 XMOD factor was 1.26. In 2020, West Bay Sanitary District's XMod was 1.22. In 2023 the XMod factor was .80. This is due to the safety training, record, and over all safety program.

*

3. Risk Assessment and Response Preparedness

This measure asks whether the District has assessed its all-hazards (natural and human-caused) vulnerabilities and risks and made corresponding plans for critical needs.

Are Emergency Response Plans in place for the following? (Y/N)

Lift Stations: Yes

Collection System: Yes

Administration & Maintenance Buildings: Yes

(Emergency Action Plan (E.A.P.) Written, Training performed annually)

Analysis: Emergency Response Plans for the lift stations and collection system are in place and are trained and practiced regularly. The Collection System staff has plans and equipment for system bypasses. Additionally, the District had performed a "Safety Compliance Assessment" in August of 2011 which identified areas within the Safety Program requiring updates, which were completed in 2012. An Emergency Action Plan was written in 2012 to include both the Administration and Maintenance buildings.

Frequency of Emergency Response Plan (ERP) Trainings: The maintenance crew performs Emergency Response Training annually.

Analysis: Maintenance Personnel trains on and practices its Emergency Response Plan training once per year. In 2014, staff reviewed EAP and agreed we should implement additional Disaster Response Training and incorporate training with the local Emergency Operations Center (E.O.C.) in 2015. Program review was performed in 2023, and continues every other year, next in 2025. The above references programs and activities have created a real safety culture at the District.

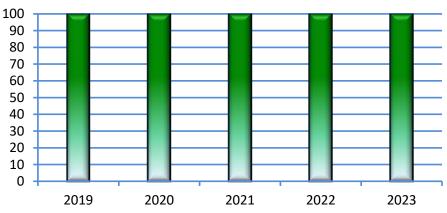


4. Ongoing Operational Resiliency

This measure assessed the District's operational reliability during ongoing or routine operations.

• Uptime for Pumps at Pump Stations: There are two pumps at all of the Pump Stations (However, University Pump Station is a Tri-Plex Station), the pump stations lift the sewage up from the collection system throughout the District and into a higher point in the system. Uptime is defined as the percentage of days that all pumps are operational and in service.

Pump Station Pumps - Uptime % of time pumps are available (exludes planned maintenance)



• Analysis: Staff has some of the more difficult parts to acquire in stock in order to avoid long term breakdowns. In 2012 the Board approved a budget that included capital funds for planned rehab and replacement of lift station pumps and valves. From 2014 through 2023 the District experienced no down time where both pumps at a station were down simultaneously.







5. Operational Resiliency Under Emergency Conditions

This measure assesses the operational preparedness and expected responsiveness in critical areas under emergency conditions.

• **Power Resiliency:** This is the number of hours that backup power is available at the pump stations and the "Time to Overflow" if all things failed. Note: Excluding the FERRF, every pump station in the collection system has a backup standby generator and pump bypass capability.

| Hamilton Henderson | 42 hours of Power /24 minutes to Overflow |
|--------------------|---|
| Willow | 60 hours of Power/22 minutes to Overflow |
| Menlo Industrial | 104 hours of Power/38 minutes to Overflow |
| University | 104 hours of Power/58 minutes to Overflow |
| Illinois | 70 hours of Power/68 minutes to Overflow |
| Vintage Oaks 1 | 151 hours of Power/61 minutes to Overflow |
| Vintage Oaks 2 | 151 hours of Power/61 minutes to Overflow |
| Stowe Lane | 70 hours of Power/43 minutes to Overflow |
| Los Trancos | 20 hours of Power/53 minutes to Overflow |
| Sausal Vista | 36 hours of Power/6 hours to Overflow |
| Village Square | 20 hours of Power/180 minutes to Overflow |

Analysis: These times indicate how long the facilities could operate during peak pumping without electricity from the grid and without additional deliveries of diesel fuel for the generators. During power outages longer than 20 hours, staff is required to refuel any given generator. Many agencies in the area have less than 12 hours backup power, some have no backup to many of their pump stations.



In late 2019, PG&E conducted their "Public Safety Power Outage" which affected three District pump stations. All three had generator back up power and worked well. Total generator run time was approximately 10 hours. The Sausal Vista Generator failed. It took approximately two hours to have another generator installed. The District did not experience spills as a result. In 2020 the District purchased a portable generator to serve as back up to the stationary generators. In 2023 the generator was used at three sites, Willow, Vintage Oaks I, and Village Square Pump Stations while the stationary generators were being repaired.









- Critical Parts and Equipment Resiliency: This is a measure or evaluation of lead times for the repair or replacement of operationally critical parts or equipment.
- **Pump Stations:** The pumps and controllers at the pump stations can be the most critical equipment. Other components of the process could be down and it would be less critical. During most cases, one pump is needed to manage the influent.

To mitigate problems should a pump be out of commission, the pump crew prepares one of two 6" by-pass pumps and is ready to mobilize and connect the by-pass pump should the final lead pump fail.

- **Standby GenSet:** in 2014 replaced 2 standby generators at Hamilton & Henderson and Village Square Pump Stations. In 2020 a spare portable generator was purchase.
- Sausal Vista Pump Station: in 2016 reconstruction of the Sausal Vista Pump Station to connect exiting flows from Corte Madera in order to eliminate the Corte Madera Pump Station and has been completed.
- **Backup Power:** backup generators are tested weekly and load tested monthly and Preventative Maintenance is performed annually. The District performs weekly checks and contracts out the annual services and 3-year load bank testing. All of the District's pump stations have backup generators.
- **Critical Staff Resiliency:** This is a measure of the ability for backup staff to cover critical operations and maintenance positions.
- Collections: All collection system workers are cross trained on tasks and equipment. Regular tasks are rotated to ensure continued familiarity with all tasks during emergency events. Of the 13 field maintenance workers, all are required to be on the standby rotation.
- Pump Station Maintenance: Both staff positions are cross trained in pump operation, repairs, standby generator operation and by-pass equipment. We are currently training additional staff to rotate through the Pump Station Maintenance functions and operation. Both staff positions are required to be on the standby rotation. The Operations Superintendent is the backup person should they not be able to fulfill their commitment. In 2012 we trained a collection system technician to perform basic pump checks and repairs and continued this cross-training in 2013. Beginning in 2015 the backup person was able to cover during standby. This effort shall continue through 2024.

Analysis: There is significant cross training for critical operations and maintenance positions to ensure adequate coverage with the appropriate knowledge, skills, experiences and ability. Note: All 20 personnel in the maintenance department are cross trained in emergency by-pass and response.

EUM Attribute #8 Community Sustainability

1. Green Infrastructure

"Green infrastructure" includes both the built and natural/non-built environment. This measure assesses the extent to which the District promotes or engages in practices that protect natural resources and the environment.

 \bullet Does the District have procedures that incorporate green infrastructure approaches and performance into new infrastructure investments? (Y/N)

Yes

Analysis: The District has implemented the following programs or practices:

- **Pipe Bursting and Cured-in-Place Pipe (CIPP) Lining** the District has developed a preference for pipe bursting or CIPP lining to replace or rehabilitate sewer mains, wherever feasible. These processes eliminate most of the trenching required, thus reducing landfill waste, reducing the use of rock, cement and asphalt to backfill, and reducing diesel emissions from associated equipment.
- **Pipe Patching with In-House Crew-** the District has implemented a Pipe Patch process as part of its Re-Habilitation program. Pipe Patching has many benefits including; not having to excavate soil and remove asphalt. The process for reconstructing both can be very expensive and time consuming. District Crew's perform 2 to 3 Pipe Patches per day when assigned to perform such work.
- **Hybrid/Electric Vehicle** In 2012 the District performed research on alternative fuel vehicles and determined a hybrid vehicle would be the most efficient type and economical to serve the District's needs. The District has purchased its first hybrid vehicle, and will consider replacing non-emergency vehicles with hybrid units. In 2022 the District purchased its first electric vehicle. In 2023, three Ford Lightning pickups were purchased. Eventually the District will move to all electric whenever feasible.
- Tablets Increase Efficiency in the Field District staff members are now able to conduct data entry in the field with a tablet computer, eliminating the extra time it takes to travel to the office for that purpose. With advances in new technology our crews can truly go paperless with inexpensive handheld tablets and spend more time in the field. They also have the added efficiency of having maps, safety procedures and infrastructure information literally at their fingertips.
- Purchase Construction Material in Bulk In 2014 District staff began to purchase large amounts of ³/₄" rock and aggregate base material for its construction operations. This not only saves the District money but it also saves in fuel since staff does not need to travel to purchase small amounts of material every day an open trench repair is performed.
- Recycled Water Project In 2020 the District took over operations of the completed Satellite Recycled Water Treatment Facility at Sharon Heights, and to date has delivered in excess of 150 million gallons for landscape irrigation. With the addition of the Avy/Altschul Pump Station adding additional wastewater flows to the Recycled Water Treatment Facility, it further enhances the goal of delivering 400k gal per day for landscape irrigation to the current Recycled Water User SHGCC. In 2023 the District embarked on the Bayfront Recycled Water Treatment Facility. Anderson Pacific Engineering was the firm to successfully submit the required Statement of Qualifications, and was asked to submit a formal proposal.









EUM Attribute #8 Community Sustainability

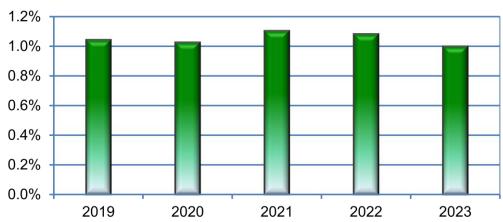
1. Service Affordability

Wastewater service affordability centers on community members' ability to pay for sewer services. The District must balance keeping sewer service affordable while ensuring the rates needed for long-term infrastructure and financial integrity.

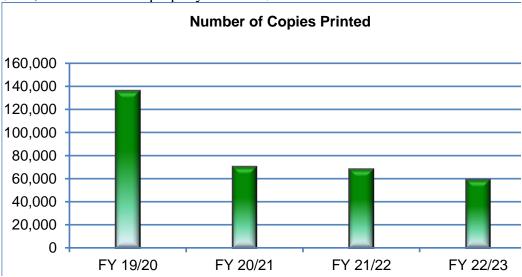
Sewer Service Charge Bill Affordability: Tracked over time, the District can evaluate whether the sewer service charges (SSCs) are becoming more or less affordable as compared to median household incomes for the District, using U.S. Census Bureau data.

Affordability of Sewer Service Charges (SSCs)

SSCs as a % of median household income

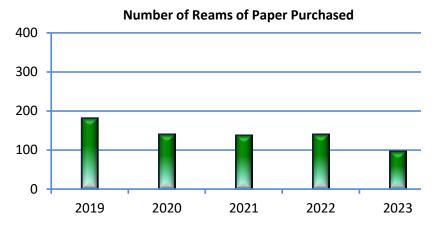


Analysis: The most recent 2022 census data reports Median Household Income (MHI) in USA as \$74,580, California's MHI was \$91,551, and San Francisco MHI was \$128,151. According to Data USA, Menlo Park's 2021 MHI was \$179,913 with median property value of \$2 million.



Analysis: The District made significant efforts to reduce paper. In 2019 staff printed over 130,000 copies. In 2020 staff printed an approximate 70,000 copies. In 2022 the District printed just over 60,000 copies. In 2023 the printed number of copies dropped to 4,482. Over all printing has been reduced by more than 63 50%





Analysis: In 2019 staff purchased 181 reams of paper. In 2023 the number of reams of paper purchased dropped to 118 that is 63 reams less or 31,500 pages per year. This is in large part due to deploying newer technologies.

1. Stakeholder Satisfaction

This measure addresses stakeholder perceptions of the District. Possible calculations of stakeholder satisfaction include overall satisfaction surveys, or message recollection for outreach programs.

- The District has not been able to conduct public event surveys in 2022 like previously at the Chamber of Commerce Block Party due to Covid-19. In 2023 District participated in a number of public events including the City of Menlo Park Halloween Festival and Egg Hunt.
- The District also sends customer service surveys to residents who call for service. The results are on page 25.

2. Comparative Rate Rank

This measure depicts how the District's sewer service charge compares to similar service providers in the region (i.e., local area wastewater providers with treatment and/or collections systems.).

• Comparative Rate Rank: The measure takes the District's sewer service charge (SSC) and graphically compares it with the SSC for comparable wastewater providers in the region.

Analysis: The District's 2022/23 SSC ranks in the mid-range as compared to other providers in the region. The District also compares well (upper mid-range) with SVCW partners.

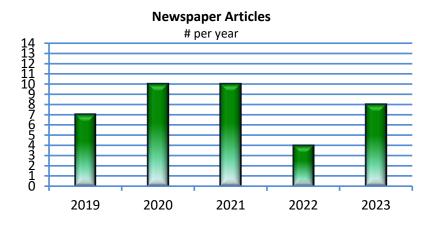




3. Media/Press Coverage

This measure captures media portrayal of the District in terms of awareness, accuracy and tone.

• Amount of Coverage: This is the total number of Almanac News and Daily Post articles concerning the District per year.

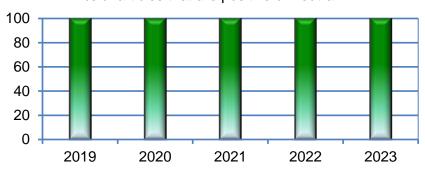


Analysis: Currently, news releases includes District awards, partnerships with HomeServe USA and OpenGov, fee schedule changes, FOG ordinance changes, and the District's Annual Winter Bulletin. In 2018, 2019, and 2020 news articles increased from the previous years due to articles on the District's recycled water project and an increase in wipes during the COVID-19 Pandemic. In 2023 newspaper articles increased to eight because of being included in articles regarding the City of East Palo Alto taking over East Palo Alto Sanitary District.



• **Media Coverage Tone:** This is the percent of newspaper stories that cover the District in a positive or neutral way.

Tone of Newspaper Articles % of articles that are positive or neutral

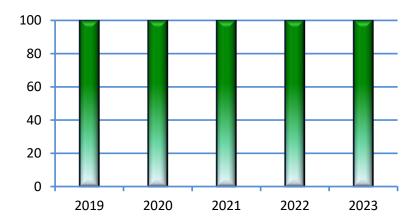


Analysis: Coverage of the District's activities, programs and policies has been predominantly covered in a neutral or positive tone. This includes editorials and opinion columns. In 2022 the tone of newspaper articles have stayed consistent with previous years. In 2023 the District's YouTube ads were viewed approximately 209,000 times by local residents and broadcast in both English and Spanish.



• **Media Coverage Accuracy:** This is the percent of the accuracy of newspaper stories that cover the District.

Accuracy of Newspaper Articles % of article that are generally accurate



Analysis: "Accuracy" can be subjective, so here it has been defined narrowly as meaning that there were no significant factual errors in the story that could cause a reader to misinterpret what was being reported. Media coverage has been accurate over the past 5 years. In 2023 the accuracy of newspaper articles has stayed consistent with previous years.

End of Report: Thank you for taking the time to read this report. If you have any questions regarding the District's measurements and results or other District programs, we will be able to share them with you. For more information, please contact info@westbaysanitary.org

Again, thank you, Sergio Ramirez General Manager West Bay Sanitary District