



# Public Works

# Public Works Department



## Department Description

The Public Works Department provides essential municipal services including street maintenance, wastewater collection and treatment, refuse and recycling collection and processing, street sweeping, traffic management, on-street and off-street parking, storm water collection and pollution prevention, environmental compliance, fleet maintenance, facilities maintenance, flood protection, vegetation management, and provides private and public development review and professional engineering services to City projects.

The Public Works Department's primary objective is to efficiently deliver the services above in a safe, professional, sustainable and cost-effective manner to residents, businesses and visitors of Santa Cruz.

The Public Works Department is organized into four major divisions: Engineering & Traffic Engineering (includes Parking and Stormwater), Operations, Resource Recovery and Wastewater.

# Engineering & Traffic Engineering Divisions

The Engineering and Traffic Engineering Division develops, coordinates, and implements the department's Capital Investment Program (CIP) related to transportation, wastewater, refuse, storm water/flood control, parking, facilities and emergency repairs. The CIP program includes grant applications and management, environmental review, permitting, design, construction and inspection. Engineering and project management assistance is also provided to other departments as needed. The Division provides review and permitting for certain aspects of property development and utility installation. Traffic Engineering also manages all on-street and off-street parking functions.

## Workload Indicators

Completed major capital improvement projects – 29

Completed or implemented major studies or programs – 10

Public Works permits issued – 1,017

Building permits/development design permits reviewed – 759

Off-street downtown public parking spaces managed – 2,135

On-street downtown public parking spaces managed – 815

Residential and monthly parking permits issued – 1,769

Downtown parking district permit persons on waitlist – 734

Downtown District High Parking Occupancy Garage Number of Days over 90% Occupied:  
Soquel-Front – 80  
Locust Street – 230  
Cedar/Walnut – 296

## **FY2019 Accomplishments**

### **Environmental Sustainability and Well-Managed Resources**

-  Completed various wastewater sewer line and wastewater treatment facility rehabilitation projects.
-  Completed commercial food waste collection and started the conversion equipment project and sanitary landfill cell 3B access road.
-  Implemented, trained and enforced new state storm water quality requirements for city and private development projects.
-  Assisted the Operations Division in completion of several California Energy Commission loan funded energy efficiency projects.
-  Completed various green objectives at Public Works' city hall office to have the office Green Business Certified.
-  Constructed the San Lorenzo River trail trestle bridge widening project as key component of the Monterey Bay Scenic Sanctuary Rail Trail Segment 8.

## Community Safety and Well Being

- ♻️ Applied for over \$4.8 million in transportation safety and infrastructure grants to fund critical projects.
- ♻️ Completed the grant-funded Bay-King Streets protected left-turns and the Bay Street sidewalk projects.
- ♻️ Awarded the NW corner improvements at the Ocean-Water Streets intersection.
- ♻️ Constructed the Laurel Street signal system controller upgrade.
- ♻️ Reviewed in excess of 750 private development and building permit applications for compliance with codes and laws under Public Works' purview including stormwater plans, public utility improvements, driveway approach, refuse enclosures, etc.
- ♻️ Initiated and implemented several new studies and programs including Bike Share Santa Cruz, the traffic and speed survey, annual traffic report, Transportation Demand Management program, sewer lateral ordinance, and the wastewater treatment facility equipment replacement study.



Administration and Engineering Public Works Staff

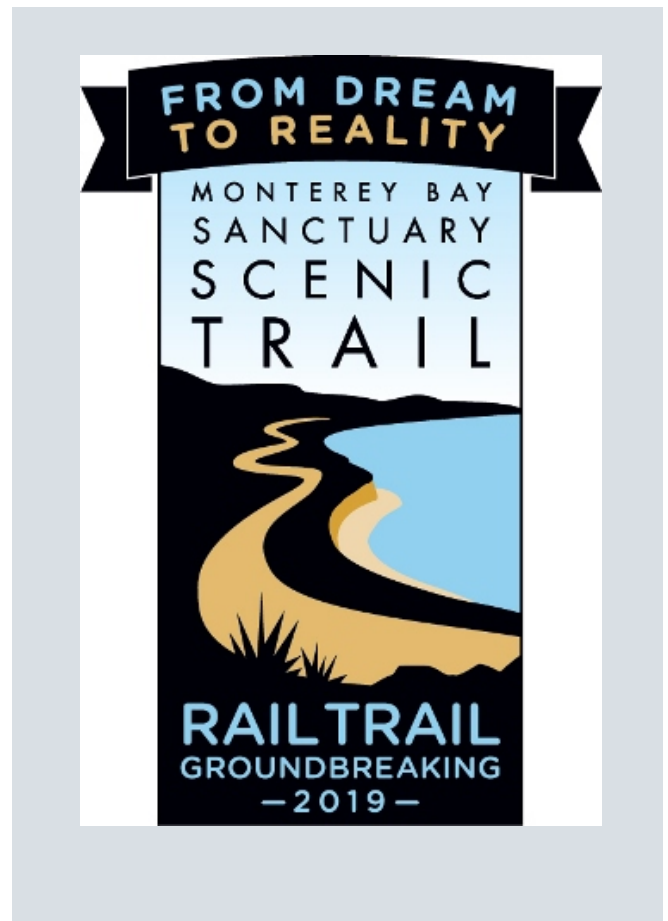
## Reliable and Forward-Looking Infrastructure and Facilities

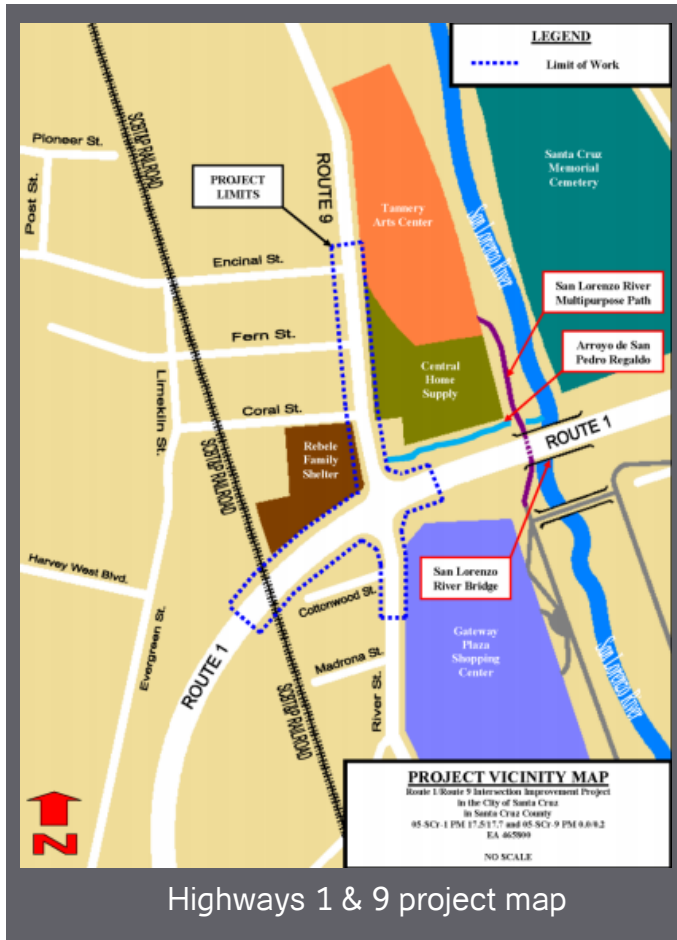
- 🔄 Constructed several 2017 storm damage repair projects including East Cliff-3<sup>rd</sup> Streets (under construction), Upper Park Road slide, Plymouth Street channel and Parkway Street headwall.
- 🔄 Bid and constructed approximately \$2.3 million in arterial, collector and residential street paving projects through a variety of methods.
- 🔄 Completed several street storm drain repair and catch basin replacement projects with new gas tax funds.
- 🔄 Assisted the Operations Division staff in completion of various projects including the Annex building remodel, Corporation Yard seismic retrofit and the DeLaveaga Golf lodge repairs.
- 🔄 Issued in excess of 1,000 permits coordinating and inspecting a variety of infrastructure work in the public right-of-way.
- 🔄 Completed an asset evaluation of the 30 year old Wastewater Treatment Facility and initiated a 5-year rate increase to fund the required capital improvement projects.
- 🔄 Completed a multi-year structure repair and deck restoration project for two downtown parking structures to extend longevity and delay costly replacement.

## FY2020 Goals

### Environmental Sustainability and Well-Managed Resources

- 🔄 Construct the Monterey Bay Scenic Sanctuary Rail Trail – Segment 7 Phase I project and acquire grant funding for Phase II.
- 🔄 Initiate design, environmental review and permitting of the Monterey Bay Scenic Sanctuary Rail Trail Segment 8-9 project.
- 🔄 Complete the Active Transportation Plan (ATP) funded Safe Routes to Schools crossings and the Highway Safety Improvement Program (HSIP) pedestrian crossing projects and continue to seek additional grant funding for many more additional ATP projects.
- 🔄 Implement approved solar projects at the Corporation Yard and Resource Recovery Facility recycling center.





## Reliable and Forward-Looking Infrastructure and Facilities

- ♻️ Continue work with Soquel Creek Water District to provide tertiary water from the Wastewater Treatment Facility to support the Pure Water Soquel program.
- ♻️ Complete the right-of-way acquisition and initiate construction of the Highways 1 & 9 intersection improvement project.
- ♻️ Approve design concept and initiate final design for the Bay-High Streets roundabout project.
- ♻️ Evaluate and design various intersection improvement projects downtown and in the beach area.
- ♻️ Assist Operations Division staff with building maintenance and infrastructure projects as needed.

## Environmental Sustainability and Well-Managed Resources

- ♻️ Continue to implement a robust street paving program by using Measure H, SB1 gas tax and Measure D grant funding.
- ♻️ Implement the West Cliff Drive emergency repair stemming from the 2017 storm damage declaration.
- ♻️ Construct the Bay Drive storm damage repair project.
- ♻️ Complete the right-of-way process and County Sanitation District sewer design for the Murray Street bridge seismic retrofit project.
- ♻️ Complete various wastewater collection and treatment facility projects.
- ♻️ Work with Planning Department and City Manager's office to complete the West Cliff Drive Master Plan.
- ♻️ Continue work on FEMA certification of the San Lorenzo River flood control project.

## Economic Vitality

- 🔄 Implement the downtown Transportation Demand Management program.
- 🔄 Implement the downtown mixed-use library project.

## Engaged and Informed Community

- 🔄 Continued evaluation and implementation of large and small Active Transportation Projects derived from the public feedback process.



- 🔄 Continued enhancement of programs to improve transportation options – GO SANTA CRUZ.
- 🔄 Continued focus on traffic safety through educational “Street Smarts” programs.
- 🔄 Assist with West Cliff Drive Management Plan development and implementation.



Parking Enforcement Officers

# Resource Recovery Division

The Resource Recovery division collects all refuse, recycling and greenwaste in the City, provides street cleaning services, refuse disposal at the landfill, processes and markets all materials diverted from the landfill including recyclables, green and food waste, and other diverted materials, provides waste reduction and recycling outreach and education programs and materials, provides environmental compliance and engineering services for the Resource Recovery Facility, and administers the enterprise Refuse Fund to collect sufficient revenues from customers and sale of diverted materials to pay all costs of the fund.

The Resource Recovery Division is organized under three main areas: Collections Operations, which includes all refuse, recycling and organics collection as well as street sweeping; the Resource Recovery Facility, which includes the landfill, the recycling center and engineering services; and Waste Reduction, which includes outreach, education and the Green Business program.

## Workload Indicators

Debris from City streets and bike lanes swept up and disposed of – 839

Rolling carts emptied – 2,600,000

Commercial containers emptied – 95,000

Street trash cans emptied – 2,600

Tons of recyclable materials the landfill center diverted out of the landfill – 44,000



Resource Recovery Landfill Crew



# FY2019 Accomplishments

## Environmental Sustainability and Well-Managed Resources

- ♻️ Daily residential refuse and recycling collections routes were optimized and consolidated, thereby reducing the total number of routes by ten. This optimization creates a more effective daily travel time, reduces emissions, and allows expansion into other operations, such as food discards “food waste” collection.
- ♻️ Increased the number of certified and re-certified Green Businesses. The goal of 20 certified and re-certified businesses was exceeded with 19 new certifications and twenty three re-certifications. This brings the total of Green Businesses within the City to 175.



- ♻️ Waste Reduction staff designed and implemented the “Master Recycler” program. This six week program introduces residents and business owners to various aspects of the City’s recycling programs. The Master Recycler program produced 28 Recycling Ambassadors that support City public events and farmers markets by staffing discard stations and outreach tables. The Ambassadors also give interactive recycling presentations at community meetings, multi-family and University housing complexes and neighborhood block parties, starting “green teams” at their places of employment, and even assisting with public and school tours of the resource recovery facility.

### RECYCLE GUIDE

DO NOT BAG RECYCLING. KEEP IT LOOSE!

#### Recycle Right!

#### PAPER AND CARDBOARD

**MIXED PAPER**

- White and colored paper (office, binder, typing, etc)
- Envelopes
- Junk mail
- Catalogs and magazines
- Phone books

**NEWSPAPER**

**PAPER BAGS**

**CARDBOARD**  
*Flatten and fold to fit*

**PAPERBOARD**

- Cereal boxes, shoe boxes
- Paper egg cartons, paper towel rolls
- Beer and soda packs
- File folders

**NOT RECYCLABLE:**

- NO Shredded or crosscut paper
- NO Cartons or Aseptic packaging (milk, juice boxes, soy containers)
- NO Books
- NO Paper cups, plates, napkins, paper towels or tissues
- NO Food-contaminated paper
- NO Waxed paper or waxed cardboard
- NO Plastic-coated paper or cardboard

**Scrap Metal and Rigid Plastics**  
Accepted at the Resource Recovery Facility only.

**Not in Blue Cart!**  
Includes pots and pans, wire, hardware, 5-gallon buckets, toys, molded plastic chairs, laundry baskets, hangers, and nursery pots.

#### GLASS, METAL, AND PLASTIC

**GLASS BOTTLES & JARS**

- Beer, wine, soda, juice, food, etc. (Remove caps and lids, empty and rinse. Recycle lids too)
- No other glass
- No corks

**METAL CANS**

- Aluminum, tin, and steel cans
- Food aerosol cans (Empty)
- No scrap metal

**ALUMINUM CANS & FOIL**

- Cans, pie plates, trays
- Foil wrap (Must be clean)

**PLASTIC BOTTLES, JUGS, JARS & TUBS**

- Water, soda, milk, detergent, peanut butter, yogurt, etc.
- No polystyrene (#6 PS)

**PLASTIC BAGS**

- Clean, dry, bag & tie!
- No single bags

**NOT RECYCLABLE:**

- NO Food, garbage, or diapers
- NO Plastic motor oil containers
- NO Ceramics, dishware, glassware, Pyrex, windows, mirrors, light bulbs
- NO Non-food aerosol cans
- NO Polystyrene plastic foam (#6 PS)
- NO Plastic cups or hinged food boxes
- NO Utensils or straws
- NO Tangles – Hoses, wire, electric cords, holiday lights

**CURBSIDE BY 5 AM**

- Use City-provided cart. No other containers will be serviced.
- Place carts on street with wheels touching curb.
- Leave at least 4 inches between carts, more space is even better.
- Don't place carts under tree branches or overhead wires.
- Take your carts in after they have been serviced.

Questions? 831-420-5220 [www.cityofsantacruz.com/recycleright](http://www.cityofsantacruz.com/recycleright)



Waste Reduction Staff

## Engaged and Informed Community

- ♻️ The Waste Reduction team completely revised the various outreach materials for the recycling and greenwaste collections programs. Refuse bin stickers, door hangers, “Oops this doesn’t belong in your recycling cart” stickers and the refuse and recycling

annual brochures all feature a more consumer friendly appearance including improved graphics and easy-to-understand formats.

## Community Safety and Well Being

- ♻️ Resource Recovery increased the amount of illegal dumping collection work throughout the City. Collected materials range from discarded furniture and appliances to illegal campsite cleanups. The program collected in excess of 190 tons of materials – almost double the amount collected the previous year.



Resource Recovery Collections Crew

# FY2020 Goals

## Environmental Sustainability and Well-Managed Resources

- ♻️ Continue the full implementation of AB 1383, the “Short-Lived Climate Pollutants” organic waste reductions law. This will include extending monitoring and documentation of organics collections and processing, including a new requirement to monitor and document the activities of all food recovery and distribution activities in the City limits.
- ♻️ Complete the installation of our own food discard processing equipment at the Resource Recovery Facility, reducing transportation time and expense, and allowing for expansion of the program’s tonnage capacity.
- ♻️ Begin preliminary steps for the construction of the next landfill cell 3B. Work includes excavation and storage of approximately 460,000 cubic yards of dirt to allow space for the eventual cell liner construction, as well as extension of the landfill access roads to allow for construction and subsequent operation of the cell.
- ♻️ Return to City Council with a comprehensive update to the Food Packaging Ordinance. The current ordinance, adopted several years ago, focused on both to-go food packaging and general polystyrene elimination. A new suite of ordinances will separate out food service from other types of packaging and focus on the general reduction of plastics use in the City.

## Engaged and Informed Community

- ♻️ Produce additional videos for new topics: food waste program or holiday tips. Investigate potential of editing video tour, updating dates and language



# Wastewater Division

The Wastewater Division is responsible for the operation and maintenance of a regional award winning wastewater treatment and disposal facility as well as the City's subsurface storm water and wastewater collections systems, 24 related pumping facilities, the leachate facility and pipeline. It also provides inspection, sampling, public education, and monitoring of business and industrial establishments to limit discharge of harmful constituents into the sanitary wastewater and stormwater systems. In addition to within City limits, the wastewater service area includes Live Oak, Capitola, Soquel, Aptos and the Santa Cruz County Sanitation District.



Aerial view of the Wastewater Treatment Facility

## Workload Indicators

Average of gallons of effluent the Wastewater Treatment Facility treated daily – 7.26 million

Gallons of effluent for on-site facility reuse water reclaimed – 49.6 million

Kilowatt hours of electricity generated by capturing methane gas from the anaerobic digester operation – 7.9 million

Self-generated power required to operate the Treatment Facility – 68.4%

# FY2019 Accomplishments

## Environmental Sustainability and Well-Managed Resources

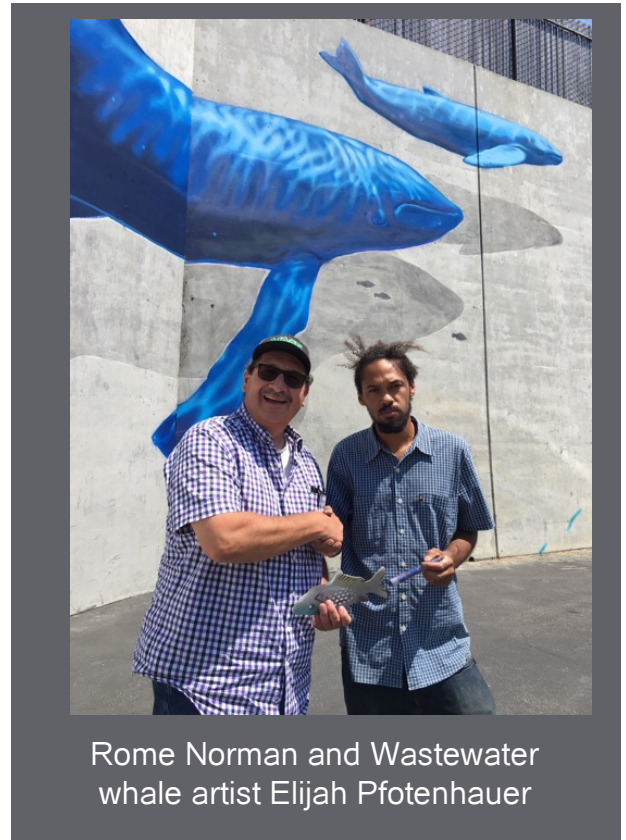
- ♻️ Furthered project development to expand current water reuse equipment to produce Title 22 reclaimed water for offsite use.
- ♻️ Installed energy efficient variable frequency drives on process equipment increasing reliability and decreasing energy consumption and expense.
- ♻️ Wastewater collections passed all state inspections/audits from the Regional Water Quality Control Board, Monterey Bay Unified Air Pollution Control District, Army Corps of Engineers, and the Santa Cruz County Vector Control and County Environmental Health Department.
- ♻️ Collections utilized Title 22 reclaimed water in the hydro-flushing of the sanitary sewer mains to offset the use of domestic water.
- ♻️ Continued work with the Environmental Compliance section on various projects and sampling events as well as implementation of the City's Sewer Lateral Ordinance.
- ♻️ Continued efforts to implement a local limit for industrial wastes expressed as a total organic carbon (TOC) to maintain the integrity of the Wastewater Treatment infrastructure.
- ♻️ Provided sampling and analysis of wastewater and stormwater samples to evaluate water treatment processes and to confirm compliance with City's National Pollutant Discharge Elimination System (NPDES) permits.
- ♻️ Provided all regulatory reporting for wastewater and stormwater state and federal permits.



Wastewater Collections Team

## Community Safety and Well-Being

- ♻️ Continued to direct the operation and maintenance of the wastewater collection system, stormwater system, leachate system and all related pumping facilities in a safe and cost effective manner.
- ♻️ Provided prompt and effective cleanup response to all daytime and after hours calls for service to all private lateral sewage spills and sanitary sewer overflows on a 365-24/7 basis and reported all spills and overflows to the California Integrated Water Quality System.
- ♻️ Managed contract ensuring that manufacturers provide collection and disposal of syringes and pharmaceuticals at their end of use cycles under the Enhanced Producer Responsibility Ordinance.



Rome Norman and Wastewater whale artist Elijah Pfothauer

## Organizational Health

- ♻️ Continued the professional development of staff through ongoing training and obtaining increased professional certification levels throughout the organization.

## Fiscal Stability

- ♻️ Completed in-house toxicity (bioassay) testing, bringing in-house the testing work that was previously done through contract laboratories and greater expense and time for completion.



## Reliable and Forward-Looking Infrastructure and Facilities

- 🔄 Delivered critical preventative maintenance and repairs to the wastewater facility providing a reliable process 24-hour a day.
- 🔄 Completed Phase I of the infrastructure and major equipment study which prepared condition assessment data, risk graphs and the preliminary cost development for the wastewater facility.
- 🔄 Commenced the leachate line valve replacement project and air release valve rebuild/replacement project.
- 🔄 Inspected and evaluated the condition of the collections system and all related appurtenances for inflow and infiltration (I&I) and identified areas for CIP and pipeline rehabilitation via lining.
- 🔄 Installed fiber connectivity to front gate at treatment facility and leachate pond pump station at landfill.
- 🔄 Completed several internet technology projects including network wiring in administration building, new treatment facility security access system, five new multi-view security cameras, virtualization of the City side of the treatment plant network, and installation of 10GB switches in the server room for improved performance.

## FY2020 Goals

### Environmental Sustainability and Well-Managed Resources

- 🔄 Continue development expansion of water reuse equipment project, in support of the Pure Water Soquel project.
- 🔄 Implement the Ultraviolet disinfection equipment replacement project resulting in energy savings and environmental protections.
- 🔄 Analyze complex chemistries and metals with the new ICP/MS.



Wastewater Treatment Facility Operations

## Organizational Health

- 🔄 Continue staff development through CWEA training as well as expansion of CMMS usage in the division, SSO spill estimation and all required annual reporting.

## Reliable and Forward-Looking Infrastructure and Facilities

- 🔄 Implement Phase II of Infrastructure Study to prepare a prioritized infrastructure and equipment replacement/rehabilitation plan for the treatment facility.
- 🔄 Develop and deliver a complete gravity thickener process rebuilt project.
- 🔄 Develop and complete a cogeneration engine rebuild project. The cogeneration engine generates electrical power on site at costs significantly lower than PG&E.
- 🔄 Review and update Collections' standard operating procedures as well as crafting new SOPs.
- 🔄 Complete the leachate line survey, identify all main line valves and ARV's with correct footages for mapping and GIS application.
- 🔄 Implement leachate line maintenance program including the survey assign asset I.D. and add to CMMS.
- 🔄 Continue to expand the implementation of the connection to the treatment facility SCADA to further enhance our pump station monitoring and alarm capabilities.
- 🔄 Complete several internet technology projects including upgrading septage station software, final additions to security cameras, finish upgrading SCADA software, replacing end-of-life Cisco switches, connecting 26 remote pump stations to SCADA system and migrating physical servers into virtual environment.



Wastewater Treatment Facility Maintenance Crew



## Operations Division

The Operations Division provides maintenance, repair, construction and procurement services related to City streets, vehicles, equipment and facilities as well as flood control and vegetation management. The Division is organized into four sections: Operations, Fleet Maintenance, Facilities Maintenance and Streets and Traffic Maintenance.



### Workload Indicators

Completed work orders for repairs/maintenance of City facilities by facilities employees – 5,049

Completed work orders for repairs/maintenance of City vehicles and equipment by Fleet employees – 3,939

Completed paving jobs by Streets employees – 87

Filled pot holes by Streets employees – 3,870

Repaired or installed signs by Streets employees – 590

Tons of illegal encampment debris removed – 23

## FY2019 Accomplishments

### Community Safety and Well-Being

- ♻️ Provided design and project management services related to improvement of homeless services and facilities.
- ♻️ Participated in Neighborhood Safety Team meetings and initiatives.
- ♻️ Assisted in commissioning and decommissioning of the River Street Camp, and provided ongoing support to other encampment areas. Teams also assisted the Police Department and Parks Department in camp logistics and debris cleanup on a weekly basis.
- ♻️ Carried out City-wide vegetation management projects to enhance traffic and fire safety.

## Reliable and Forward-Looking Infrastructure and Facilities

- ❧ Completed \$1.2 million in energy efficiency upgrades funded by a 1% California Energy Commission loan.
- ❧ Provided project management for the DeLaveaga Golf Lodge repair, Natural History Museum repair and City Hall Annex remodel projects.
- ❧ Collaborated with the Army Corps of Engineers on San Lorenzo River Levee embankment repairs.
- ❧ Conducted San Lorenzo River annual vegetation management and sedimentation mobilization projects.
- ❧ Managed the Pogonip Creek sediment removal project.



- ❧ Successfully applied to PG&E for no-cost infrastructure improvements at the Corporation Yard that will lead to 16 electrical vehicle charging stations and one downtown trolley charging station.
- ❧ Secured over \$40,000 in utility rebates for energy efficiency projects.
- ❧ Secured PG&E on-bill financing for over \$400,000 in lighting upgrades Citywide.



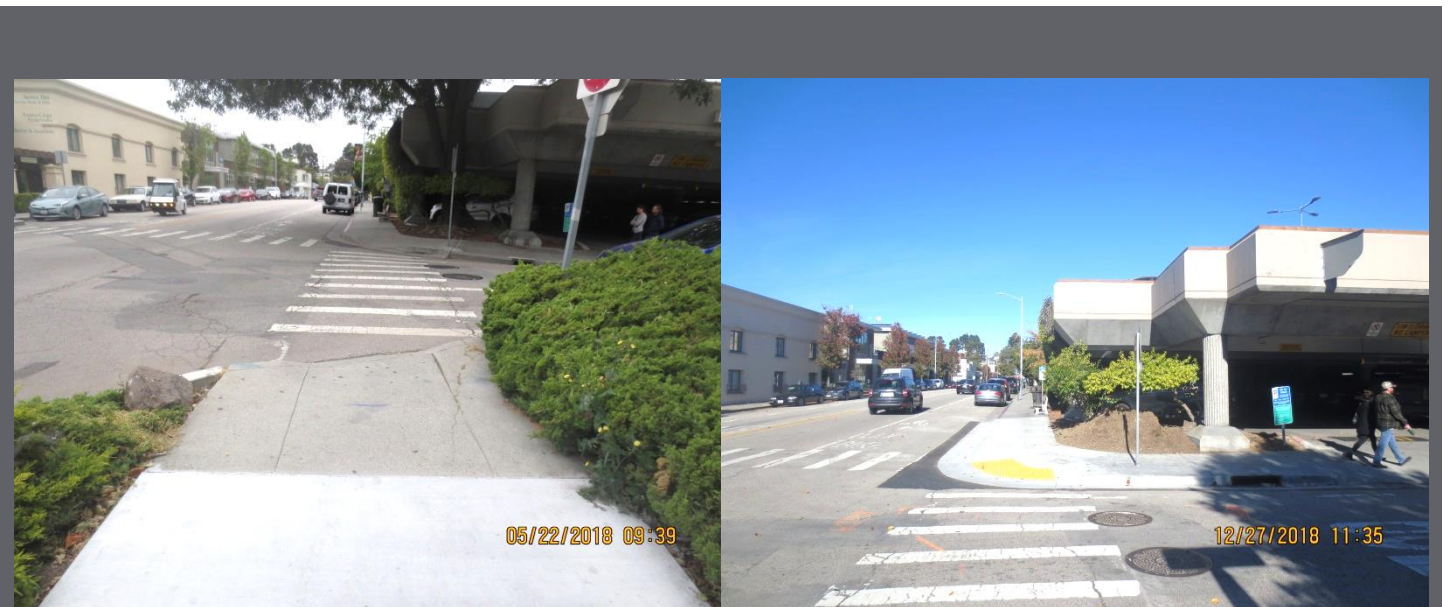
Bay Street Sidewalk Infill Project – Before and After



- ♻️ Implemented and administered the Corporation Yard Stormwater Pollution Prevention Plan (SWPPP) and completed design of significant improvements to the site sediment control.
- ♻️ Continued the implementation and

data collection for the California Energy Commission Deep Energy Efficiency Grant project.

- ♻️ Paved and repaired areas of the Municipal Wharf, DeLaveaga Golf Lodge, and streets Citywide.
- ♻️ Completed waterproofing and paving project at Fire Administration building to correct water intrusion into offices.
- ♻️ Provided new and replacement signage for streets and parks Citywide.
- ♻️ Completed repairs of median curb on Water Street between Pacific Avenue and River Street.
- ♻️ Responded to and mitigated an unexpected HVAC system failure in the IT server room, preventing the loss of the City's computer firewall.
- ♻️ Responded to and repaired ongoing fire sprinkler system failures at the Police Department.



North East Corner of Cedar and Walnut – Before and After

- ♻️ Conducted testing of fire alarms and fire sprinkler systems in City facilities.
- ♻️ Repainted the exterior of the Parks administration building.
- ♻️ Remodeled the Corporation Yard central receiving office, facilities offices and operations restroom.
- ♻️ Replaced 20 fleet vehicles, including two major trucks, under budget, and sold decommissioned vehicles on the surplus vehicle market.
- ♻️ Continued to identify high energy use (low gas mileage) vehicles and equipment and replace with alternative fuel or fuel/energy efficient models.
- ♻️ Reduced turnaround time for City vehicle service and repair.
- ♻️ Initiated design process for replacing the existing waste wash water treatment system at the corporation yard.
- ♻️ Completed design for abandonment of obsolete service pits in the City garage with work to be done with City staff.

## FY2020 Goals

### Reliable and Forward-Looking Infrastructure and Facilities

- ♻️ Complete the Storm Water Pollution Prevention Plan (SWPPP) facility upgrades at the Corporation Yard by expanding various department staff responsibilities, BMP supply inventory and communication matrix.
- ♻️ Initiate project to replace additional City lighting with energy efficient fixtures and lamps using the PG&E on-bill financing program.
- ♻️ Initiate and complete expansion of solar photovoltaic electricity generation at the Corporation Yard, Resource Recovery Facility, and DeLaveaga Golf Lodge by receiving proposals for financing and construction from qualified contractors.
- ♻️ Continue to upgrade of older fleet assets and reduce the City's carbon footprint.
- ♻️ Integrate Streets and Traffic assets into the Computerized Maintenance Management System (CMMS) work order system which is already used by the Fleet and Facilities divisions.



# Public Works

## DEPARTMENT SUMMARY

	Fiscal Year* 2018 Actuals	Fiscal Year 2019			Fiscal Year 2020 Adopted
		Adopted Budget	Amended* Budget	Estimated Actual	
<b>EXPENDITURES BY CHARACTER:</b>					
Personnel Services	24,916,656	29,196,883	29,196,883	27,098,925	31,747,447
Services, Supplies, and Other Charges	23,163,478	27,832,507	27,964,852	27,394,334	29,698,351
Capital Outlay	3,041,821	4,695,388	6,953,440	4,344,448	3,221,866
Debt Service	6,444,637	6,162,224	6,162,224	6,557,935	1,994,577
Transfers Out & Other Financing Uses	-	1,358,141	1,358,141	1,358,141	-
<b>Total Expenditures</b>	<b>57,566,593</b>	<b>69,245,143</b>	<b>71,635,540</b>	<b>66,753,783</b>	<b>66,662,241</b>
<b>EXPENDITURES BY ACTIVITY:</b>					
Public Works Administration	4101 341,207	320,210	334,605	337,801	339,770
Engineering	4102 803,992	1,307,016	1,362,990	1,271,634	1,391,219
Public Works Operations	4103 194,383	276,636	165,010	312,125	294,155
Facilities Services	4110 1,389,343	1,554,778	1,397,058	1,564,679	1,607,171
Street Maintenance and Sidewalk Repair	4210 1,452,972	2,516,605	2,449,865	2,092,004	2,606,394
Traffic Engineering	4220 559,902	754,611	786,530	740,285	853,341
Parking Services	4221 1,678,893	1,900,536	1,972,190	1,868,018	1,989,172
Traffic Maintenance	4223 626,879	-	-	95,822	-
Bicycle/Pedestrian System Maintenance	4227 -	-	-	-	50,000
Parking Citation and Permits Office	4229 470,424	562,990	562,990	539,782	599,335
After Hours Call Duty Program	4901 28,528	32,000	32,000	22,236	17,926
<b>Subtotal General Fund</b>	<b>7,546,524</b>	<b>9,225,382</b>	<b>9,063,237</b>	<b>8,844,386</b>	<b>9,748,483</b>
Wharf Gate Operations	4226 509,779	610,400	610,400	564,178	626,248
<b>Subtotal Other General Funds</b>	<b>509,779</b>	<b>610,400</b>	<b>610,400</b>	<b>564,178</b>	<b>626,248</b>
Traffic Signal Maintenance	4224 209,601	255,190	273,648	264,533	247,405
Street Lighting	4225 351,618	365,275	419,874	385,275	365,275
Bicycle/Pedestrian System Maintenance	4227 32,375	35,000	62,000	62,000	42,000
Traffic Impact	4228 43,083	61,891	61,891	62,756	71,190
Clean River, Beaches & Oceans	4235 478,492	795,830	841,021	864,626	867,508
Transportation Development Act	6301 744,077	744,077	744,077	744,077	744,077
Wastewater Customer Service	7201 304,758	314,513	314,513	314,513	387,316
Wastewater Collection Control	7202 2,413,692	3,381,832	3,391,832	3,262,961	3,600,441
Wastewater Treatment Facility	7203 9,183,266	11,346,842	11,425,961	10,590,710	12,287,495
Secondary Plant Parks Mitigation	7204 477,281	527,108	527,108	468,196	574,511
Wastewater Source Control	7205 584,867	706,823	728,538	665,451	830,447
Wastewater Pump House	7206 82,665	248,000	248,000	248,000	133,000
Wastewater Admin Charges	7207 914,475	939,166	939,166	939,166	967,489
Wastewater Lab	7208 1,073,209	1,524,286	1,947,104	1,490,492	1,692,901
Sewer Debt Service	7242 3,663,208	3,686,089	3,686,089	3,686,089	337,662
Refuse Customer Accounting	7301 468,846	588,166	588,166	588,166	698,952
Resource Recovery Collection - Containers	7302 6,405,806	6,739,959	7,340,440	6,539,835	6,995,104

\*Sums may have discrepancies due to rounding

# Public Works

## DEPARTMENT SUMMARY

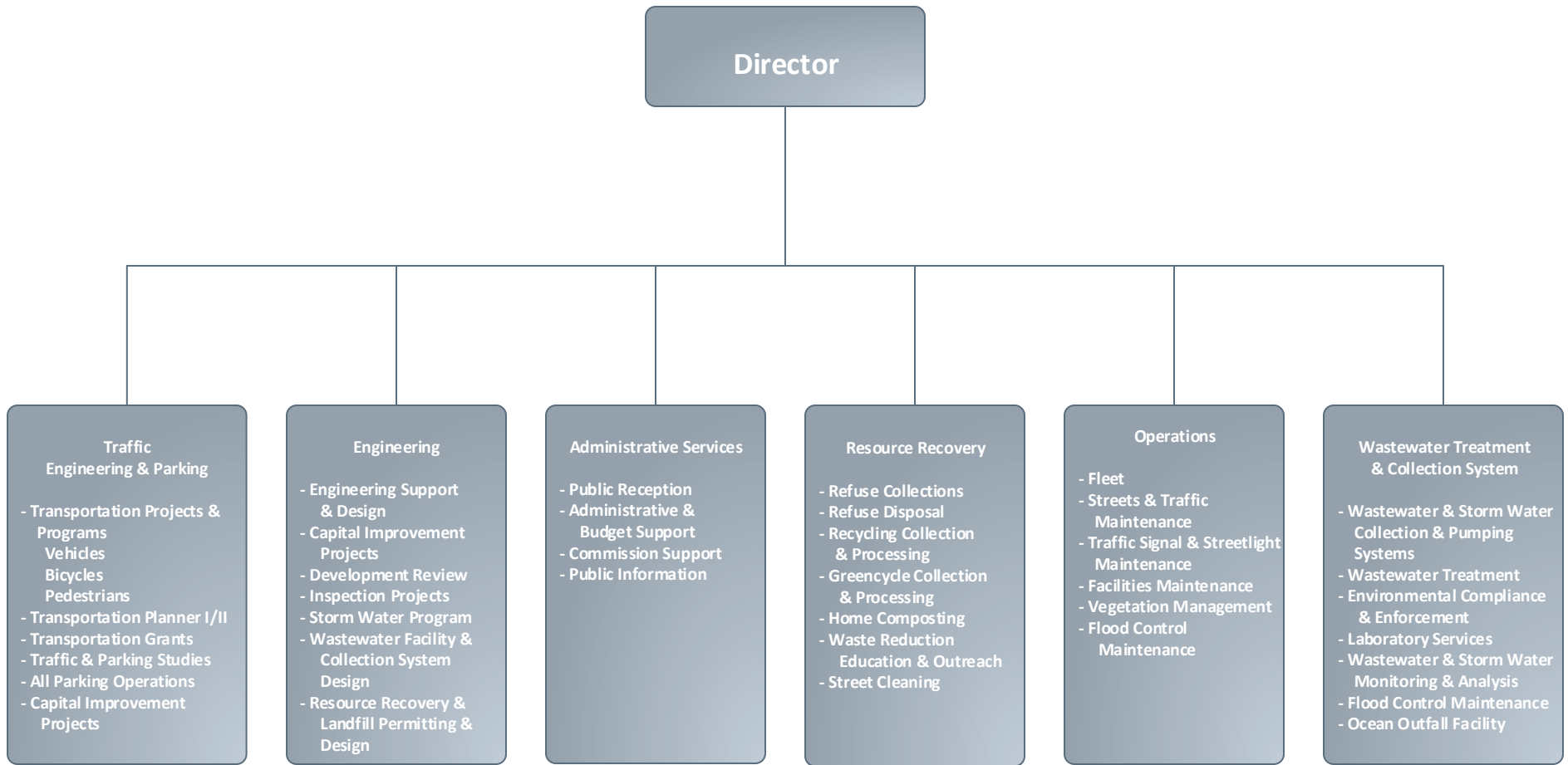
		Fiscal Year* 2018 Actuals	Fiscal Year 2019			Fiscal Year 2020 Adopted
			Adopted Budget	Amended* Budget	Estimated Actual	
Refuse Disposal	7303	5,608,410	7,548,801	7,577,319	7,036,094	7,362,186
Recycling Program - Processing	7304	1,800,848	2,268,809	2,308,939	2,055,596	2,422,549
Resource Recovery Collection - Cart	7305	2,490,074	3,113,655	3,892,475	3,006,568	3,288,356
Waste Reduction	7306	402,244	578,584	610,103	536,027	542,595
Street Cleaning	7307	1,161,235	869,130	869,130	822,397	801,469
Off-Street Parking	7401	4,851,050	5,160,216	5,177,472	5,043,964	6,072,266
Storm Water Management	7501	924,364	907,622	1,221,119	897,447	896,518
Storm Water Overlay Debt Service	7540	188,920	189,102	189,102	189,102	188,504
Mechanical Maintenance	7831	3,349,726	3,531,624	3,534,474	3,545,395	3,700,699
Communications	7832	5,361	10,880	10,880	10,880	10,880
Employee Commute Van	7833	1,056	2,818	2,818	2,069	2,818
Vehicle Lease Program	7835	1,027,671	2,136,020	2,177,659	2,177,659	-
Pool Vehicles	7836	48,390	37,450	39,106	43,753	155,897
City Schools	7837	23,165	-	-	-	-
Equipment Lease Program	7839	196,830	794,603	811,880	801,422	-
Subtotal Other Funds		49,510,664	59,409,361	61,961,903	57,345,219	56,287,510
Total Expenditures		57,566,968	69,245,143	71,635,540	66,753,783	66,662,241

### RESOURCES BY FUND

General Fund	101	4,159,527	4,225,144	4,238,469	4,225,144	4,526,035
Municipal Wharf	104	1,195,204	1,250,000	1,250,000	1,250,000	1,200,000
Gasoline Tax	221	1,669,239	2,751,906	2,778,906	2,681,162	3,061,554
Traffic Impact Fee-Citywide Fund	226	759,806	500,000	500,000	500,000	500,000
Clean River, Beaches & Ocean Tax Fund	235	629,048	635,564	635,564	635,564	635,712
Transportation Development Act	291	744,077	744,077	744,077	744,077	744,077
Wastewater	721	22,611,676	21,800,847	21,800,847	20,210,000	21,960,000
Refuse	731	20,718,349	20,236,000	20,275,681	20,239,681	20,836,378
Parking	741	5,475,052	4,820,500	4,820,500	4,817,500	7,097,400
Storm Water	751	652,696	579,510	579,510	579,510	505,682
Storm Water Overlay	752	329,180	322,916	322,916	322,916	271,052
Equipment Operations	811	3,765,247	3,885,085	3,891,685	3,755,320	3,423,294
Total Resources		62,709,100	61,751,549	61,838,155	59,960,874	64,761,184
<b>Net General Fund Cost</b>		<b>(3,386,998)</b>	<b>(5,000,238)</b>	<b>(4,824,768)</b>	<b>(4,619,242)</b>	<b>(5,222,448)</b>
		<b>FY 2018</b>		<b>FY 2019</b>		<b>FY 2020</b>
<b>TOTAL AUTHORIZED PERSONNEL:</b>		248.70		252.70		253.70

\*Sums may have discrepancies due to rounding

# Public Works Department



\* Shown by function.