

# STORM WATER PROGRAM AND EXPENSES

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# OVERVIEW AND UPDATE

- Storm water expenditures presented on June 25, 2020 as part of budget adoption
- Line item detail of SW Fund provided
- Consider where budget reductions could be achieved in discretionary spending
  - Street sweeping
  - Power washing
  - Crosswalk Cleaning
  - CIP program
- Review of storm water monitoring data



# RECAP: DISCRETIONARY SPENDING

\$271,102

Weekly Street sweeping

\$61,850

Strand power washing

\$17,048

Crosswalk cleaning (quarterly)

**\$350,000**

**Total**



\$710,000

Street sweeping

**-\$410,000**

Local Return Revenue

**\$300,000**

**Total**

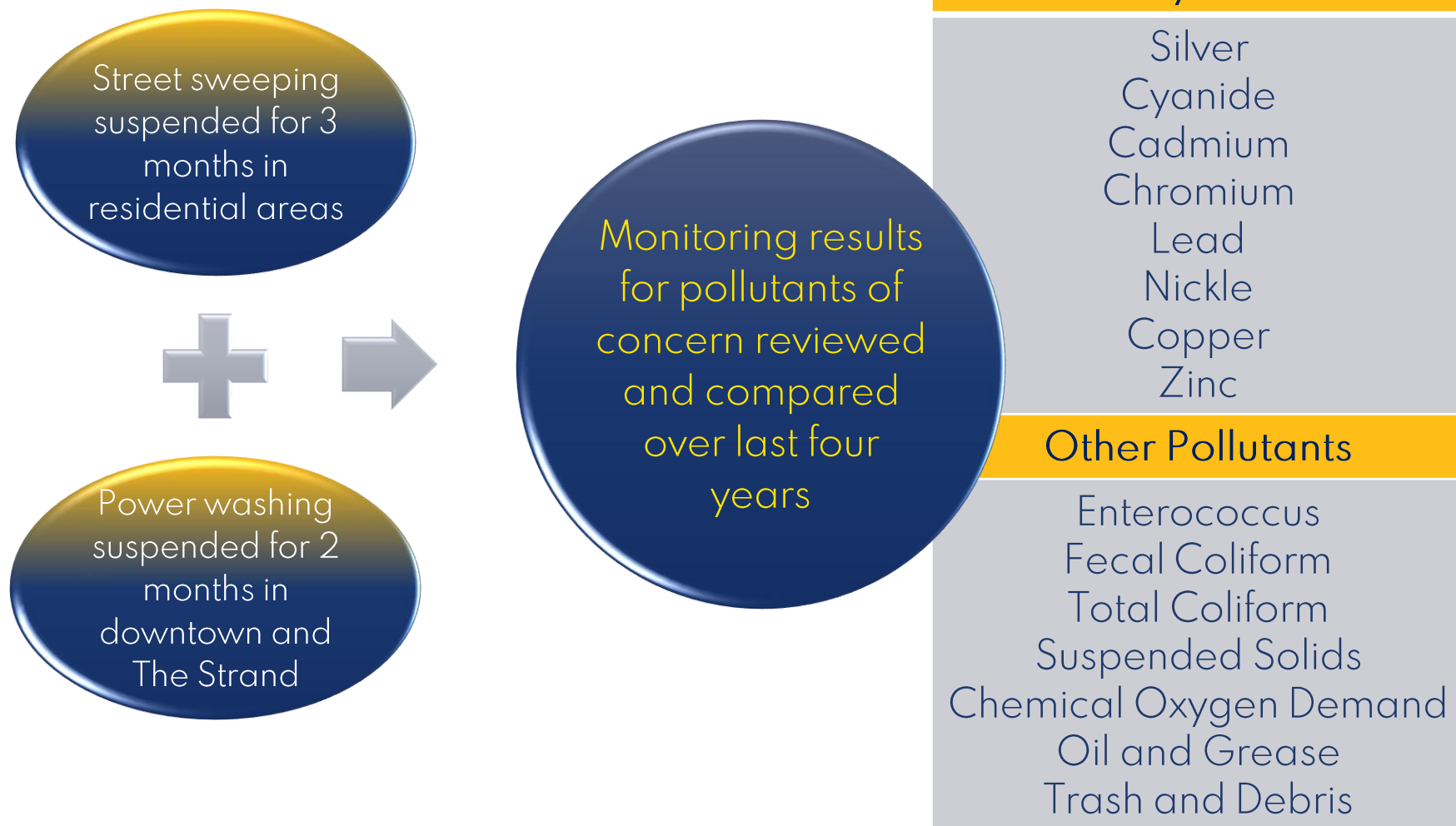


# FREQUENCIES OF SERVICE

Activity	Frequency
Street Sweeping	Weekly in residential areas Twice weekly downtown
Parking Lot Sweeping	Ranges from daily to weekly, depending on location and season
Strand Sweeping	Daily, weekdays year-round
Strand Power Washing	Monthly in winter Weekly in summer
Downtown Power Washing	Twice weekly, coordinated with street sweeping
Blue Tile Crosswalk Cleaning	Quarterly
North End BID	Monthly in winter Twice monthly in summer



# COVID SUSPENSION OF SERVICES



# MONITORING RESULTS: HEAVY METALS

Constituent	No Exceedance	Exceeded Threshold		
		2018	2019	2020
Cadmium	x			
Chromium	x			
Lead	x			
Silver	x			
Nickle			x	
Copper		x	x (highest)	x
Zinc		x	x (highest)	x

Reduced street sweeping did not negatively impact the amount of heavy metals reaching receiving waters



# MONITORING RESULTS - OTHERS

Constituent	No Exceedance	Exceeded Permit Limits: March - May		
		2018	2019	2020
Enterococcus		x	x	x (highest) <sup>1</sup>
Fecal Coliform		x	x	x (highest) <sup>2</sup>
Total Coliform		x	x	x (highest)
Suspended Solids	x			
Cyanide	x			
COD <sup>3</sup>		x	x	x (lowest)
Oil and Grease <sup>3</sup>		x	x	x (lowest)

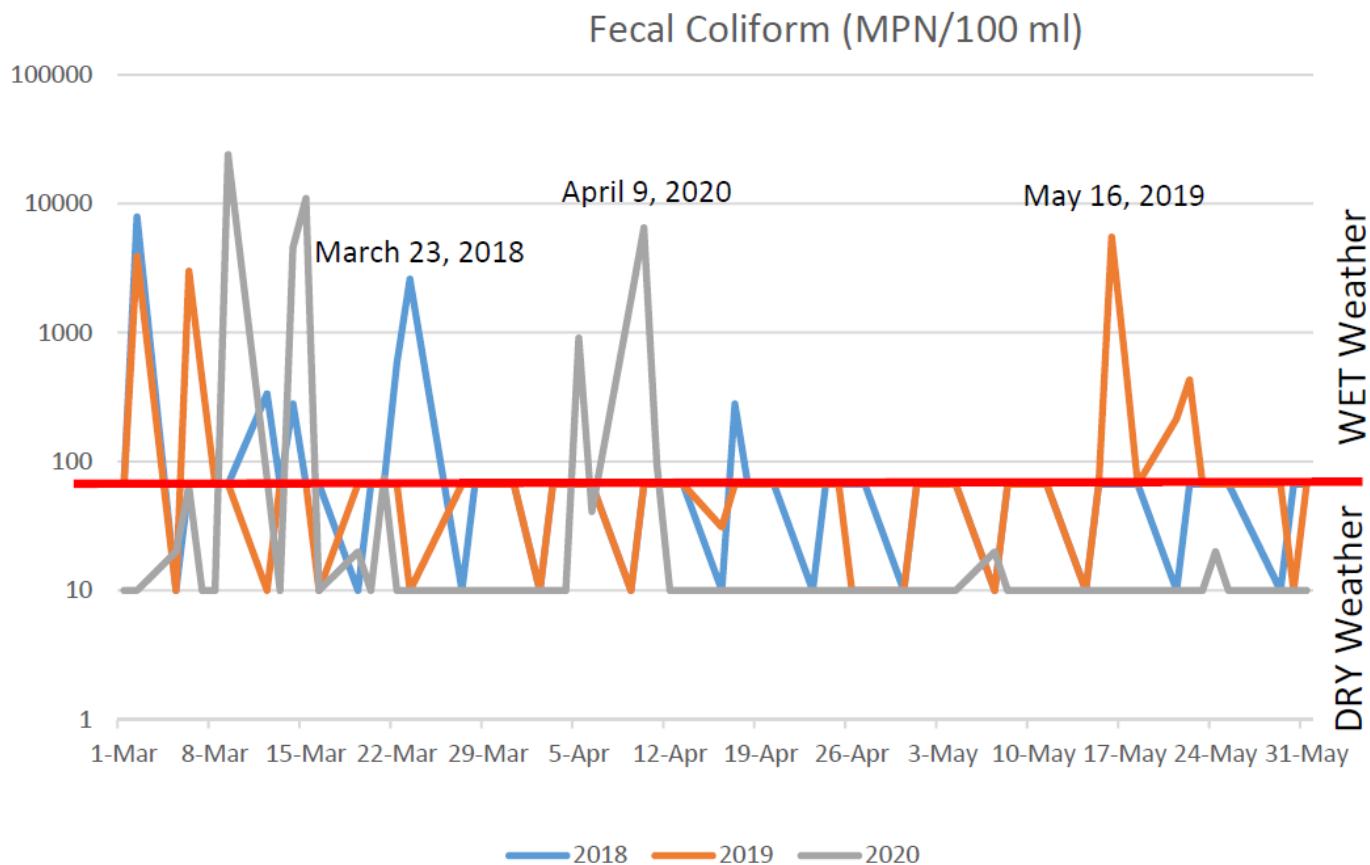
<sup>1</sup> Large spike (one day)

<sup>2</sup> Similar range to 2019

<sup>3</sup> No permit limits established



# COLIFORM – WET WEATHER SPIKES

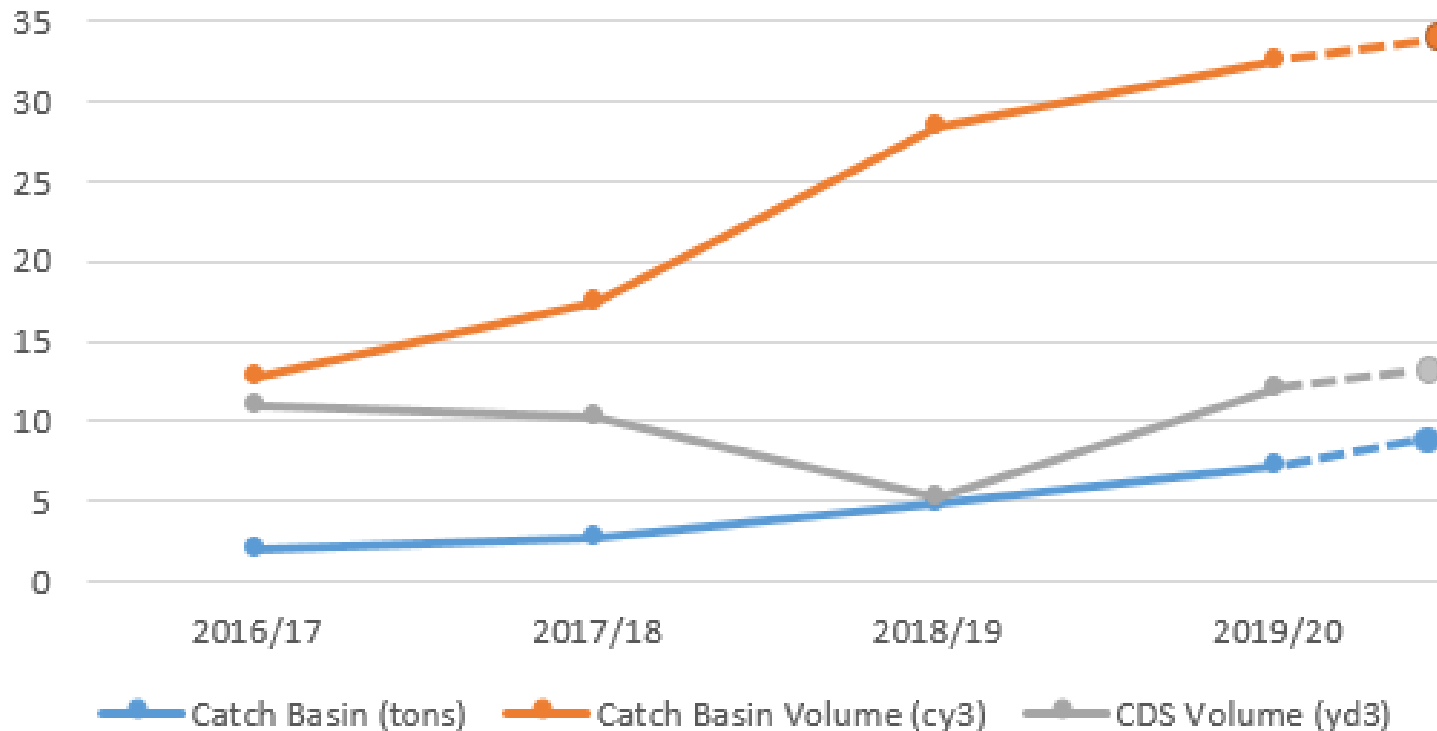


Bacteria spikes strongly correlate with wet weather.  
Street sweeping frequency doesn't appear to have much impact on bacteria levels.



# TRASH AND DEBRIS VOLUMES

Trash and Debris - Estimated 20/2021



Trash removed from storm drains has steadily increased over the past four years, in part due installation of debris capture devices.



# STREET SWEEPING FREQUENCY OF OTHER CITIES

## 2x Monthly

Brea  
Dublin  
Irvine  
Rancho Palos Verdes  
Riverside  
San Francisco

## Monthly

Berkeley  
Davis  
Livermore  
Mountain View  
Pleasant Hill  
San Diego  
San Jose  
Santa Monica (covid-related)



Manhattan Beach sweeps  
weekly in residential areas, and  
twice weekly downtown



# OPTIONS FOR CONSIDERATION

1. **Keep the current schedule** for street sweeping and power washing as is and do not reduce the storm water budget.
2. **Modify the street and parking lot sweeping schedules** for the 2020/21 rainy season and reevaluate next summer the impacts a new schedule has had on pollutant loads:
  - Monthly or 2x monthly citywide (excluding downtown); OR
  - Monthly in residential zones only
  - Less frequently in parking lots (variable schedules)
3. **Consider other budget reduction options** in the storm water fund instead of or in addition to street sweeping (e.g., crosswalk cleaning, power washing, capital infrastructure projects).



# QUESTIONS AND ANSWERS



# STORM WATER FUND ALLOCATIONS

Amount	Expenditure Line Item
\$1,210,000	Previously Programmed CIP Dollars (underway)
\$500,000	New CIP Dollars in FY 2020/21 (\$710,000 other years)
\$361,800	Contractors (street sweeping; power washing; landscaping)
\$235,294	Utilities and Internal Service Charges
\$143,156	Consultant Charges
\$99,812	Staff costs
\$97,144	Permits, Fees and Testing/Monitoring
\$50,500	Materials and Supplies
<b>\$2,697,756</b>	<b>Total 2020-2021 Storm Water Budget</b>

