

# Water Capital Programs

Services of the San Francisco Public Utilities Commission

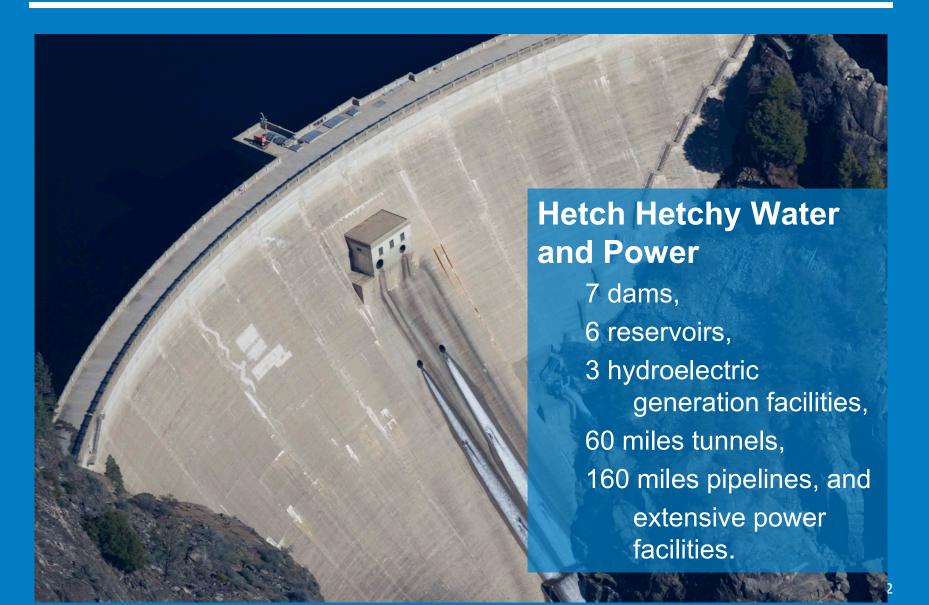
# SFPUC's 15<sup>th</sup> Annual Construction Contractors' Breakfast

May 7, 2021





# **SFPUC Water Assets**





# **SFPUC Regional Water Assets**

## **Regional Water System**

10 dams,

5 reservoirs,

20 miles tunnels,

230 miles pipelines,

5 pump stations,

3 water treatment plants,

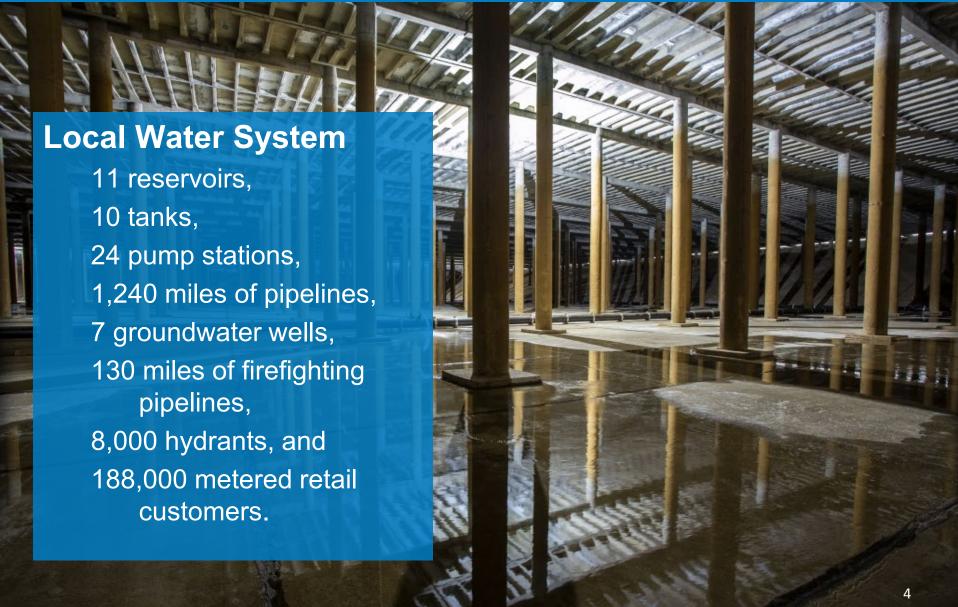
13 groundwater wells, and

27 wholesale customers.





# **SFPUC Local Water Assets**





# **SFPUC Water Capital Programs**

## SFPUC has a 10-Year CIP budgeted every 2 years

- Water System Improvement Program (WSIP)
  - 2005-2023; 99% complete
  - 87 Local and Regional Projects
  - \$4.8B
- Water Enterprise Capital Improvement Program (WECIP)
  - 2021-2035
  - 36 Regional (Bay Area) and Local (SF) Projects + R&R
  - \$2.7B
- Hetchy Capital Improvement Program (HCIP)
  - 2018-2030
  - 22 Regional (Upcountry) Projects + R&R
  - \$683M



# Water WSIP – 99 percent complete thanks Power to our many partners!

- 9.9M safe working hours to date
- 15,781 workers earned \$532M
- 47% of WSIP hours worked by local workers
- 70% of apprentice hours worked by local workers
- Job Training and Opportunities Program (JTOP)
  - CityBuild Academy
  - JobTrain
  - YouthBuild
  - Cypress Mandela Training Center
  - Tuolumne Training Collaborative
- 66 Industry Awards to date!





# Regional Groundwater Storage & Recovery - Phases 2a and 2b

# Construction Estimate: \$8.2M (two contracts)

- Major mechanical and electrical for one well facility;
- Minor mechanical and electrical for ten well facilities;
- Cathodic protection on well pump systems;
- Furnish/install 8-inch ductile iron pipe;
- Restore roadways.

Trades: earthwork, paving, concrete, pipeline, electrical, mechanical, plumbing

#### **Advertisement Dates:**

2a: June 2021 2b: May 2022





# Southern Skyline Blvd Ridge Trail Extension

#### Construction Estimate: \$13M

- Construction of 6-mile-long trail extension;
- Install trail, soldier pile retaining walls, fencing, parking lots, pre-fabricated vault toilets and a prefabricated bridge.

Trades: traffic control, earthwork, paving, trucking, concrete, fencing, landscaping

Advertisement Date: July 2021





# Local (San Francisco) Pipeline Construction Projects

# Water Pipeline Construction Contracts

#### **SFPUC Lead:**

#### **2021/22 Advertisement**

Prospect Street (\$9.4M)

Diamond Street (\$9.6M)

Gold Mine Drive (\$6.3M)

Jersey Street (\$8.0M)

Laidley Street (\$7.8M)

Hampshire St. (\$17.7M)

#### 2022/23 Advertisement:

Parnassus Avenue (\$8.6M)

Precita Avenue (\$7.3M)

San Bruno Avenue (\$7.4M)

21st Street (\$5.6M)

Grandview Avenue (\$10.3M)

Joost Street (\$8.6M)

#### SFMTA/SFPW Lead Agency

Taraval: (\$15.0M)

Better Market St: (\$7.0M)



Requirements for Local Water Construction Projects to install distribution (<48") water pipelines:

Companies or principal staff with five years experience in:

- Water pipeline construction (<48")</p>
- Welded steel/ductile iron pipeline (<48")</p>
- Working in urban settings
- Field engineers/ superintendents with five years experience in pipeline work



# New CDD Headquarters at 2000 Marin, San Francisco

# Construction Management/General Contractor (CM/GC)

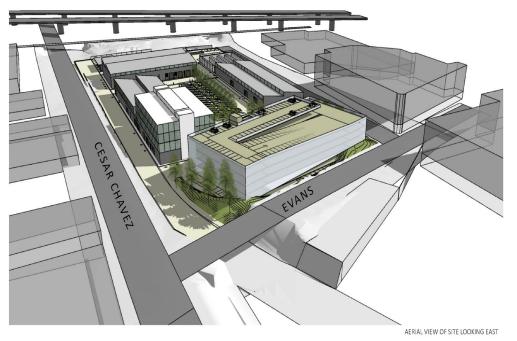
Construction Estimate: \$255M

- Administration Building
- Warehouse
- Industrial Shops: Machine, Meter, Carpentry, Electrical, and Landscaping
- Parking Structure

Trades: construction management, earthwork, paving, concrete, heavy equipment, welding, carpentry, plumbing, electrical, HVAC, security system, painting, and landscaping

Advertisement Date: June 2021

NEW CDD HEADQUARTERS AT 2000 MARIN STREET | ARCHITECTURAL NARRATIVE



8 DESIGN APPROACH



# **Contracts to be Advertised in 2022**

Project	Estimated Contract Value	Advertise Date
Bay Division Pipeline No. 4 Prestressed Concrete Pipe Repair	\$2.8M	Spring 2022
Harry Tracy Water Treatment Plant Filter Underdrain Replacement	\$8.7M	Summer 2022
Millbrae Administrative Building  – HVAC Upgrades & Security Upgrades (2 contracts)	\$8.5M	Summer 2022
Large Diameter Pipeline As- Needed Repairs and Bay Division Pipeline Nos. 1-4 Corrosion Repairs	\$8.4M	Fall 2022
Sunol Valley Water Treatment Plant Polymer Feed Facilities	\$8.0M	Fall 2022



# **Contracts to be Advertised in 2023**

Project	Estimated Contract Value	Advertise Date
Crystal Springs Pipeline No. 2 Reach 5 Lining Replacement	\$12M	Fall 2023
San Antonio Pump Station Motor Control Center Upgrades	\$7M	Summer 2023
Town of Sunol Pipeline	\$2M	Fall 2023



# Hetch Hetchy Upcoming Construction Projects 2021-22

Contract Title	Estimated Contract Value	Advertise Date
SJPL Valve and Safe Entry Improvements – Phase 1A	\$6.1M	September 2021
SJPL Valve and Safe Entry Improvements – Phase 1B	\$8.2M	December 2021
Electric Transmission Lines 7/8 Upgrades	\$25.5M	January 2022
SJPL Valve and Safe Entry Improvements – Phase 3	\$6.7M	May 2022
SJPL Valve and Safe Entry Improvements – Phase 2	\$30.6M	December 2022
O'Shaughnessy Dam Outlet Works, Phase 1	\$13.8M	December 2022



# San Joaquin Pipeline Valve and Safe Entry Improvement Phase 1 A & B

Replace large diameter isolation valves at Tesla Valve House, install removable spool pieces at Oakdale and Tesla Portals.

Trades:
plumbers,
welders,
pipefitters,
concrete, heavy
equipment,and
carpenters.

Phase	Anticipated Advertisement Date	Construction Contract Estimate
Phase 1A	September 2021	\$6.1M
Phase 1B	December 2021	\$8.2M





# O'Shaughnessy Dam Outlet Works, Phase 1

Install, replace or rehabilitate bulkhead system, drum gate system, isolation valves, and various gate valves within the dam.

Trades:
plumbers,
welders,
pipefitters,
concrete, heavy
equipment,
carpenters,
communications

Anticipated
Advertisement Date

Construction
Contract Estimate

December 2022

\$13.8M



# SFPUC Contractors: Making a Difference





# Wastewater Enterprise Capital Improvement Plan & Sewer System Improvement Program

**Stephen Robinson**, Wastewater Enterprise Capital Program Director, Infrastructure 15th Annual Construction Contractors' Breakfast

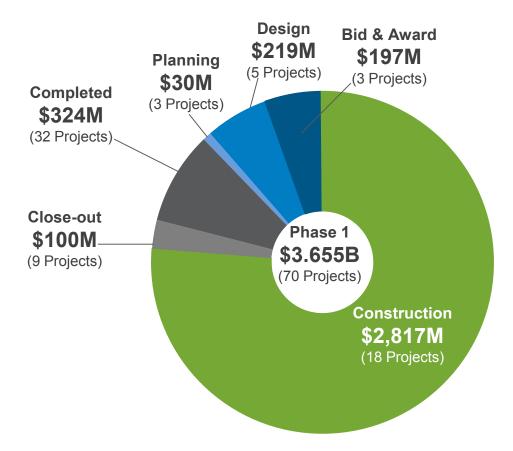
### **Capital Planning:**

# Adaptively managed for sustainable delivery

2 YEAR BUDGET 10 YEAR CAPITAL PLAN

**20 YEAR PLANNING HORIZON** 

## SSIP Status (as of December 2020)

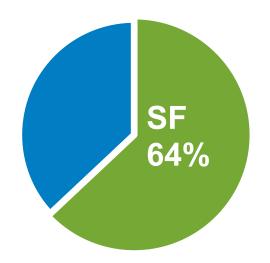






## SSIP Local Hiring (as of December 2020)

Apprenticeships (Entry-level)
Provided by SSIP



309 SF apprentices have worked 64% of hours (as compared to 50% requirement) and earned \$4.8M in wages

SSIP Local Hire Ordinance Achievement

20-30% Local Hire Percentage Requirements 35%

Actual
SSIP Local
Hire
Percentage
Achieved

1,156 San Francisco
residents have earned
\$25.3M in wages on SSIP
projects working 373K hours

## Respond. Recover. Reimagine.

- Adhering to construction site-specific COVID-19 Health and Safety protocols
- Good neighbors to impacted communities – residents and merchants
- Complying with Traffic Control requirements
- Proactively planning to minimize disruptions
- Maintaining construction site cleanliness
- Creative staging due to site constraints

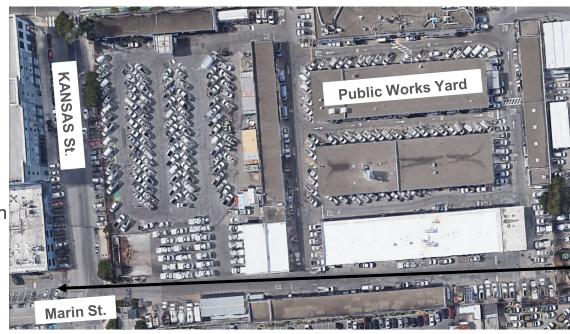




### Kansas and Marin Streets Sewer Improvements

#### Total Project Cost in CIP: \$28.3M

- Installation of 900 LF of 8-foot tunnel using micro-tunnel boring machine (MTBM) construction method
- Construction of two reinforced concrete junction structures to connect with existing sewers
- Design and construct surface restoration improvements
- Request for Qualifications for designbuild contract to be issued May 2021



#### **Project Schedule:**



## **Yosemite Green Infrastructure**

#### **Total Project Cost in CIP:** \$17.1M

- Daylighting Yosemite Creek from Yosemite Marsh in McLaren Park to Woolsey and Hamilton Streets
- Soccer field renovation with subsurface stormwater detention facility
- Bioretention planters, landscaping, irrigation and hardscape
- RFP for green infrastructure engineering services was issued April 15, 2021



#### **Project Schedule:**



#### Ocean Beach Climate Change Adaptation Project

#### **Total Project Cost in CIP:** \$170M

- Construction of the following:
  - 3000 ft. buried sea wall
  - Bathroom
  - Parking lot
  - Coastal multi-use trail
  - Stairwell for beach access
- Intersection re-design
- Landscaping/planting
- 65% Design currently underway
- Draft Environmental Impact Report expected Fall 2021

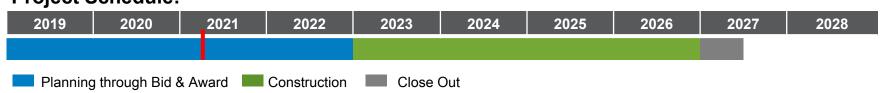








#### **Project Schedule:**



#### **New Treasure Island Wastewater Treatment Plant**

#### **Total Project Cost in CIP**: \$202M

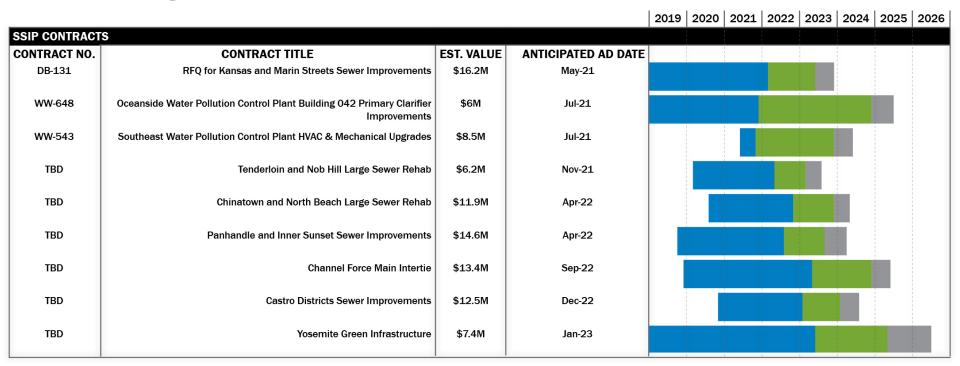
- Limit WWTP processing odors
- Optimize life-cycle costs
- Produce Title 22 compliant water
- Provide flexibility to comply with future regulations
- Design Build Request for Qualifications released in August with qualification packages submitted and list of qualified prime contractors issued
- Request for Proposals currently under development with an anticipated release in Summer 2021



#### **Project Timeline:**



## **Upcoming SSIP Construction Contracts**



Project Phases:

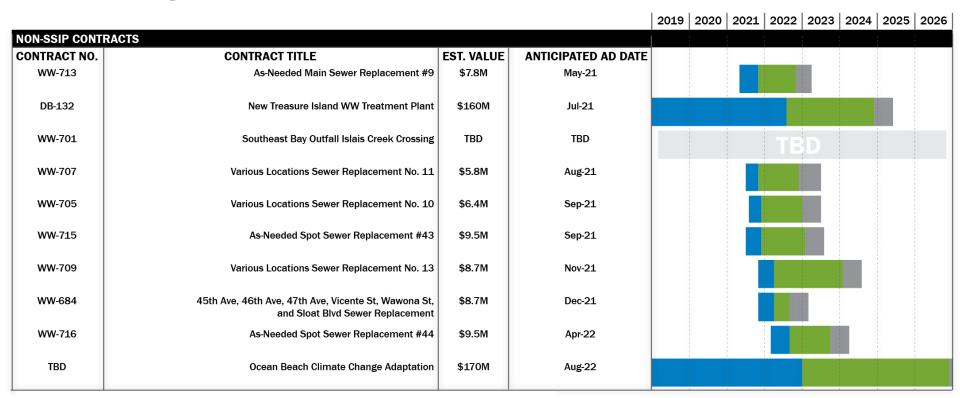
Planning - Bid & Award

■ Construction

■ Close-out

sfpuc.org/construction-contracts

## **Upcoming Non-SSIP Construction Contracts**



Project Phases:

Planning - Bid & Award

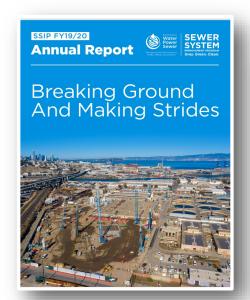
■ Construction

■ Close-out

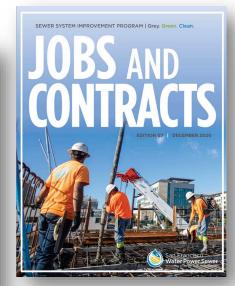
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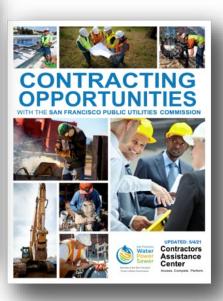
#### For More Information...

Visit sfpuc.org/ssip Go to Resources & Reports to download











# MOVING FORWARD.



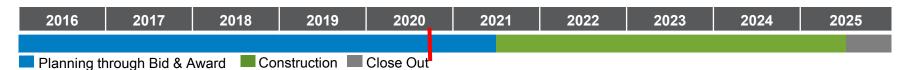
#### WW-701 Southeast Bay Outfall Islais Creek Crossing Replacement

#### Total Project Cost in CIP: \$67.6M

- Pipeline replacement and restoration of access manholes within Islais Creek
- Improvements to flow velocity
- Piping isolation improvements to the Booster Pump Station



#### **Project Timeline:**



WW-712 New Montgomery, Jessie, Mission, & Minna St.

**Brick Sewer Rehabilitation** 

#### **Total Project Cost in CIP:** \$10.4M

- Rehabilitate 3,330 LF of main sewer using trenchless method at:
  - Mission, between 2<sup>nd</sup> and 3<sup>rd</sup>
     Street
  - New Montgomery, between Market and Howard Street
  - Jessie, between 2<sup>nd</sup> and 3<sup>rd</sup> Street
  - Minna, between 2<sup>nd</sup> and 3<sup>rd</sup> Street



#### **Project Timeline:**



**Folsom Area Stormwater Improvements** 

#### **Total Project Cost in CIP:** \$290M

The scope of work for this project may be divided into two construction contracts:

- Upstream Pipe Component 12,500 LF of cut-and-cover sewer work to upsize existing sewer pipes
- Tunnel Component Construct stormwater tunnel to convey flows from upstream to Mission Creek Channel

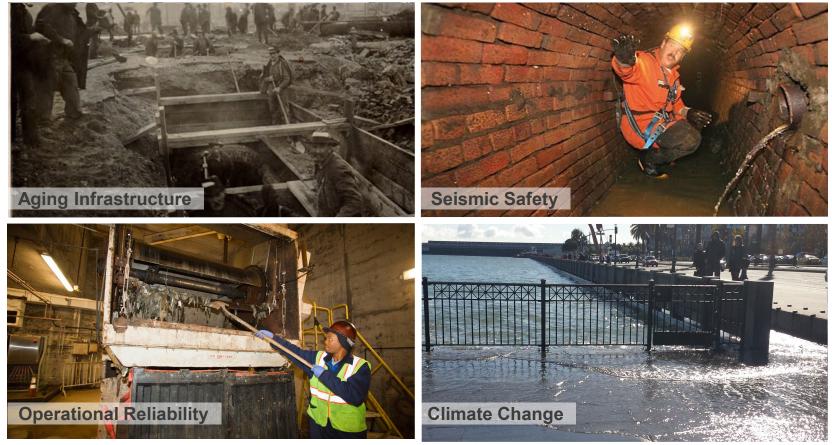


#### **Upstream Components Project Timeline:**

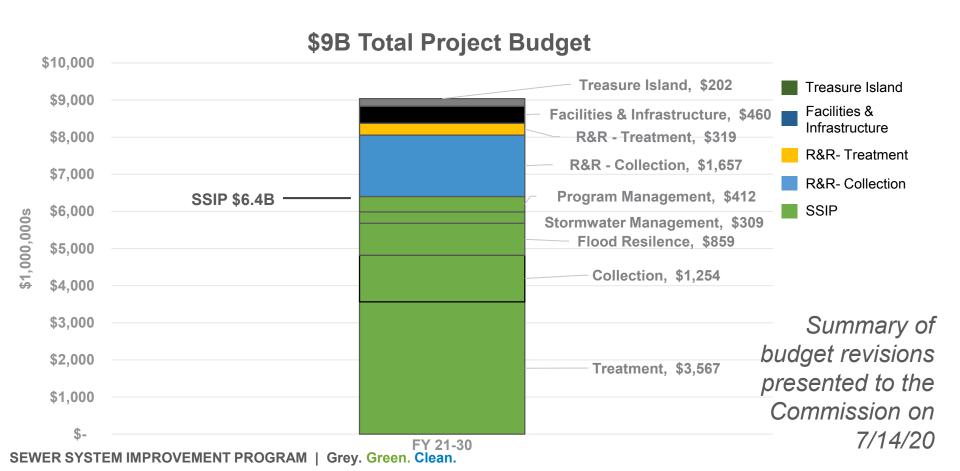


■ Planning through Bid & Award ■ Construction ■ Close Out

## **Some of Our Priority Challenges**



## **Summary of Revised 10 Year CIP (FY21-30)**



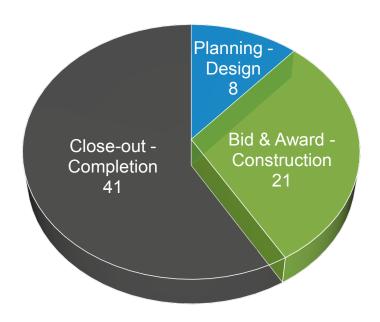
## **SSIP Phase 1 Progress**

**June 2020** 



46% Complete

December 2020



42.4% Complete



# SAN FRANCISCO PUBLIC UTILITIES COMMISSION CONSTRUCTION MANAGEMENT BUREAU

15<sup>TH</sup> ANNUAL CONSTRUCTION CONTRACTOR'S BREAKFAST

















#### **CONTACT INFORMATION**



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Construction Management Bureau (CMB)

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### **QUESTIONS?**

Submit RFP questions to SFBid: <a href="https://sfbid.sfwater.org/">https://sfbid.sfwater.org/</a>

For SFBid technical assistance, please email <a href="mailto:SFBid@sfwater.org">SFBid@sfwater.org</a> or call (415) 934-5703

# **POLL QUESTION**



# Which is your favorite cartoon?

Jetsons



Flintstones







































## **RFP TIMELINE**

<u>RFP</u>	<u>VALUE</u>	<u>DATE</u>
Treasure Island CM Services	\$5M	<b>Early 2022</b>
2000 Marin CM Services	TBD	Early 2022
As-Needed CM Services	5 Contracts \$4M	Mid 2022
Folsom/Alemany Tunnels CM	TBD	Late 2022



# THANK YOU









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