

SSIP PHASE 1 PROGRAM EXECUTIVE SUMMARY

APRIL - JUNE 2015



Sewer lining for Central Subway Project

COMMUNICATIONS

APRIL - JUNE 2015

In the News

- 13 article/video segments focused on SSIP projects including an *SF Chronicle* story on the SEP Digesters



- Oak & Fell Streets Green Infrastructure project and plant tours were also the subject of local print, TV, and online stories
- Media coverage of the "You Can't Live a Day without Me" rap video continued and views surpassed 20,000

657,230+

IMPRESSIONS

Includes social media outlets (Facebook, Twitter, & Instagram), SSIP related web page hits, treatment plant tours, and community meeting attendees from April to June 2015. This is a 23% increase over the last reporting period.

Outreach

- 4 pre-bid meetings and 9 green infrastructure trainings were held at the Contractors Assistance Center
- Participated in the 9th Annual Construction Contractors Breakfast on May 14
- In preparation for BDFP EIR, conducted 18 public presentations, 5 stakeholder tours, and a webinar

Upcoming Events

- August 12: SSIP CityWorks Capstone Presentation
- August 15: BMagic Youth event
- September 19: Sunset Festival
- Community events to kick off construction of Sunset Blvd Greenway/Sunset GI project
- Public presentations on flooding at Cayuga, Wawona, and Folsom neighborhoods



Services of the San Francisco
Public Utilities Commission

**SEWER
SYSTEM**
IMPROVEMENT PROGRAM
Grey. Green. Clean.

KEY ACCOMPLISHMENTS

APRIL - JUNE 2015

Programmatic

- Provided SSIP and State Revolving Fund (SRF) status to the Revenue Bond Oversight Committee (RBOC)
- Finalized content for the SSIP Annual Report
- Trained staff to implement Triple Bottom Line (TBL) tool
- Held 9 Green Infrastructure (GI) Construction Trainings

Southeast Plant (SEP)

- Headworks team continued to work on the CER and RFQ for Construction Management/General Contractor (CM/GC)
- Completed 95% design for Buildings 521/522 and Disinfection Upgrades, and Primary and Secondary Clarifier Upgrades
- Presented preliminary architectural and land use concepts for BDFP and New Headworks to the Management Oversight Committee (MOC) and obtained agreement on staging strategy
- Completed Draft AAR for Power Feed and Primary Switchgear Upgrades and submitted PG&E application for redundant second feeder
- Awarded professional services contract to SOHA-MBE, JV and Structus, Inc. for Structural Engineering Services for Seismic Upgrades of SEP

Biosolids Digester Facilities Project (BDFP)

- Refined unit processes and site layout for CER and Issued Notice of Preparation (NOP) for EIR on June 24

North Point Facility (NPF)

- Completed 65% design for NPF Outfall System Rehabilitation and initiated environmental permit applications
- Completed CER and initiated 35% design for North Shore Wet Weather Pump Station

Oceanside Plant (OSP)

- Completed draft Site Management Plan for OSP and Westside (WSS) Pump Station
- Completed draft NAR for the OSP Condition Assessment Repairs

Central Bayside System Improvement Project (CBSIP)

- Finalized AAR and supporting technical memoranda

Green Infrastructure (GI) Early Implementation Projects (EIP)

- Advertised Holloway Green Street/Lake Merced GI
- Briefed MOC on status of EIPs, interaction with SF Rec Park, and proposed maintenance plans

Urban Watershed Assessment (UWA)

- Developed strategy for risk-based flood resilience analysis with the MOC

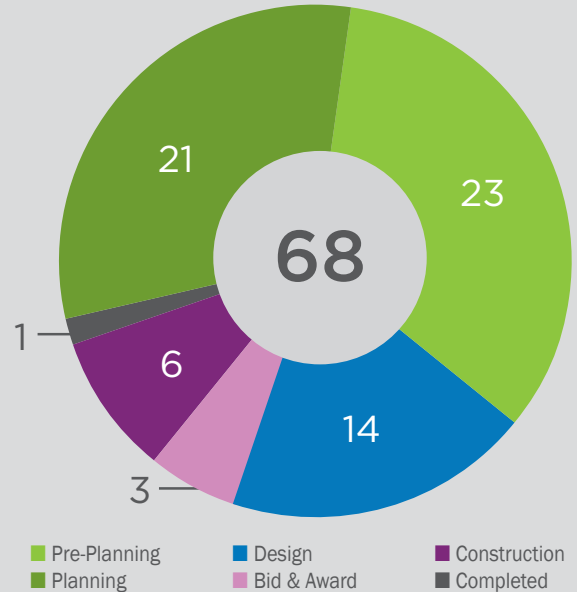
Collection System Reliability

- Completed 65% design and CEQA process for Kansas & Marin Sewer System Improvement
- Completed AAR for Hudson Pump Station

PHASE 1 METRICS

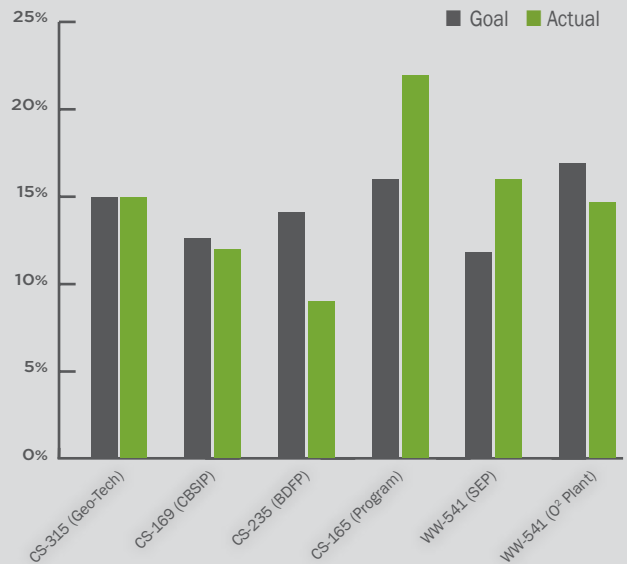
AS OF JUNE 2015

Project Count by Phase



LBE Participation By Contract

LBE participation percentages are based on expended amounts and not total contract amount



Upcoming Contracts

Dates listed are for Advertisement

- Construction contracts:
 - September 2015: SEP Digester No. 10 Modifications
 - September 2015: SEP Primary/Secondary Clarifier Upgrades
 - September 2015: SEP Existing Digester Gas Handling Improvements
 - October 2015: SEP Building 521/522 and Disinfection Upgrades
 - October 2015: NPF Outfall System Rehabilitation

KEY SSIP PHASE 1 CAPITAL PROJECTS

AS OF THE WWE QUARTERLY REPORT, APRIL TO JUNE 2015

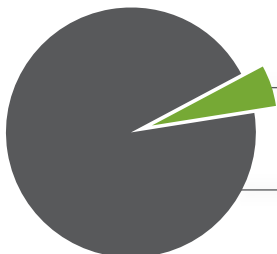
Activity ID	Activity Name	Forecast Total Cost April 2015	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
			Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Southeast Plant														
	SEP Existing Infrastructure Repairs	\$564,735,962												
	SEP Oxygen Generation Plant	\$222,197,332												
	SEP Existing Digester Roof Repairs	\$13,000,015												
	SEP Primary Sludge Handling Improvements	\$27,194,737												
	SEP Seismic Reliability and Condition Assessment Improvements	\$20,864,695												
	SEP Existing Digester Gas Handling Improvements	\$58,102,197												
	SEP Power Feed and Primary Switchgear Upgrades	\$27,194,738												
	SEP Oxygen Generation Plant 01	\$69,840,950												
	SEP Oxygen Generation Plant 01	\$6,000,000												
Primary Treatment														
	SEP Primary and Secondary Clarifier Upgrades	\$32,308,985												
Secondary Treatment														
	SEP 521/522 and Disinfection Upgrades (SEP Building 521 Replacement)	\$32,088,516												
Primary Treatment Improvements														
	SEP Primary Wet Weather Treatment Replacement	\$30,268,069												
	SEP Tank Drainage Pump Station	\$27,268,760												
	SEP Tank Drainage Pump Station	\$2,999,309												
DCS Control System														
	DCS Control System	\$62,987,772												
	SEP Facility-wide DCS Control Upgrades	\$62,987,772												
	SEP New Headworks	\$184,885,288												
Biosolids Digester Facilities Project														
	Biosolids Digester Facilities Project	\$1,186,308,160												
Treatment Plant Improvements														
	Treatment Plant Improvements	\$296,515,918												
North Point Facility (NPF)														
	NPF Outfall System Rehabilitation	\$113,127,786												
	NPF Outfall System Rehabilitation	\$29,973,213												
	North Shore Wet Weather Pump Station Improvement and Disinfection	\$66,610,914												
	NPF Clarifier Improvements	\$16,543,659												
Oceanside Water Pollution Control Facility (OSP)														
	OSP Fine Screen and Grit Removal Enhancements	\$77,283,161												
	OSP Fine Screen and Grit Removal Enhancements	\$3,695,617												
	OSP Digester Gas Utilization Upgrade	\$48,233,856												
	OSP Condition Assessment Repairs	\$15,712,082												
	OSP Odor Control Optimization	\$4,724,858												
	OSP Oxygen/Aeration System Replacement	\$4,916,748												
Westside Pump Station and Force Main														
	Westside Pump Station and Force Main	\$106,104,971												
	Westside Pump Station Reliability Improvements	\$68,257,496												
	Westside Pump Station Redundant Force Main Improvements	\$37,847,475												
Central Bayside System Improvement Project														
	Central Bayside System Improvement Project	\$70,000,000												
Stormwater Management														
	Stormwater Management	\$96,267,313												
Early Implementation Projects														
	Islais Creek Green Infrastructure	\$72,087,668												
	Islais Creek Green Infrastructure	\$5,753,000												
	Sunset Green Infrastructure	\$10,929,000												
	North Shore Green Infrastructure	\$2,564,000												
	Lake Merced Green Infrastructure	\$7,435,000												
	Sunnydale Green Infrastructure	\$3,527,000												
	Richmond Green Infrastructure	\$8,295,000												
	Yosemite Green Infrastructure	\$14,198,000												
	Channel Green Infrastructure	\$4,299,000												
	Flood Resilience Analysis	\$2,506,000												
	Flood Resilience - Early Projects	\$5,708,748												
	Watershed Stormwater Management	\$6,872,920												
Advanced Rainfall Prediction System														
	Advanced Rainfall Prediction System	\$24,179,645												
	Advanced Rainfall Prediction	\$15,380,585												
	Operational Decision System Phase 1	\$1,000,922												
	Operational Decision System Phase 2	\$7,798,138												
Collection System Reliability and Operational Improvements														
	Collection System Reliability and Operational Improvements	\$244,537,509												
	Interceptors/Large Sewers/Tunnels/Odor Control	\$73,349,366												
	* Collection Systems/Interdepartmental Projects	\$47,447,350												
	* T/S Boxes and CSD Structures	\$71,729,315												
	* Pump Stations and Force Main Improvements	\$52,011,478												

First phase of construction is Grit Removal Pilot Study

* Represents multiple projects

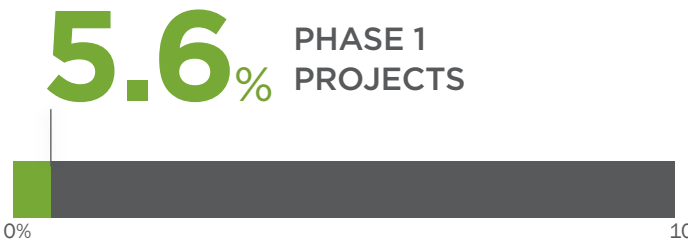
■ Bid & Award ■ Construction ■ Planning / Environmental / ROW / Design / Closeout / Commissioning ■ July 2015 - June 2016

Expenditures as of June 2015



EXPENDED
\$0.15B
REMAINING
\$2.56B

Completion as of June 2015



PROGRAM PHOTOS



4th Annual SSIP CityWorks internship program kickoff event with Mayor Ed Lee at City Hall.



A horizontal silencer was installed at the SEP Oxygen Generation Plant for noise remediation.



SEP Headworks project team visits Willow Lake Water Pollution Control Facility (Oregon) to discuss lessons learned around Grit Handling technology.

LOOKING AHEAD

JULY - SEPTEMBER 2015

Programmatic

- Publish the SSIP Annual Report
- Finalize content of Request for Proposals (RFPs) for Construction Management Services for SEP projects

Southeast Plant (SEP)

- Complete 100% design and advertise contract for Primary and Secondary Clarifier Upgrades
- Continue to prepare RFQ for CM/GC for New Headworks Facility

Biosolids Digester Facilities Project (BDFP)

- Hold CEQA public scoping meeting
- Issue CER by the end of September

North Point Facility (NPF)

- Complete 95% design for NPF Outfall System Rehabilitation
- Continue 35% design for North Shore Wet Weather Pump Station

Oceanside Plant (OSP)

- Complete final Site Management Plan for OSP and WSS
- Complete final NAR for OSP Condition Assessment Repairs

Central Bayside System Improvement Project (CBSIP)

- Obtain Commission and BOS approval for reassignment of professional services contract (CS-169) to MWH

Green Infrastructure (GI) Early Implementation Projects (EIP)

- Conduct BOS Hearing on GI and Climate Change
- Continue design of Upper Yosemite Creek Daylighting/ Yosemite GI
- Complete design and start construction of first block of Sunset Blvd. Greenway/Sunset GI
- Begin filming of training and construction videos
- Review construction contract bids for Holloway Green Street/ Lake Merced GI and Mission & Valencia Green Gateway/ Islais Creek GI

Urban Watershed Assessment (UWA)

- Continue flood resilience analysis and investigation of capital improvements for flooding requested by the Mayor's Office

Collection System Reliability

- Complete CER for Hudson Avenue Pump Station
- Complete AAR for Cesar Chavez Pump Station



San Francisco
Water Power Sewer
Services of the San Francisco Public Utilities Commission

For more information, visit: sfwater.org/ssip

