

RESCU Program describes eleven projects which constitute full replacement and rehabilitation of SVCW's conveyance system. RESCU includes the Gravity Pipeline, Front of Plant, Pump Stations, and Belmont Force Main projects. The Front of Plant includes six and Pump Stations includes four of the eleven projects. The Conveyance System Improvements Environmental Impact Report completed and adopted by the SVCW Commission in April 2017 covers work to be done under all the RESCU Program projects.

Available Budget

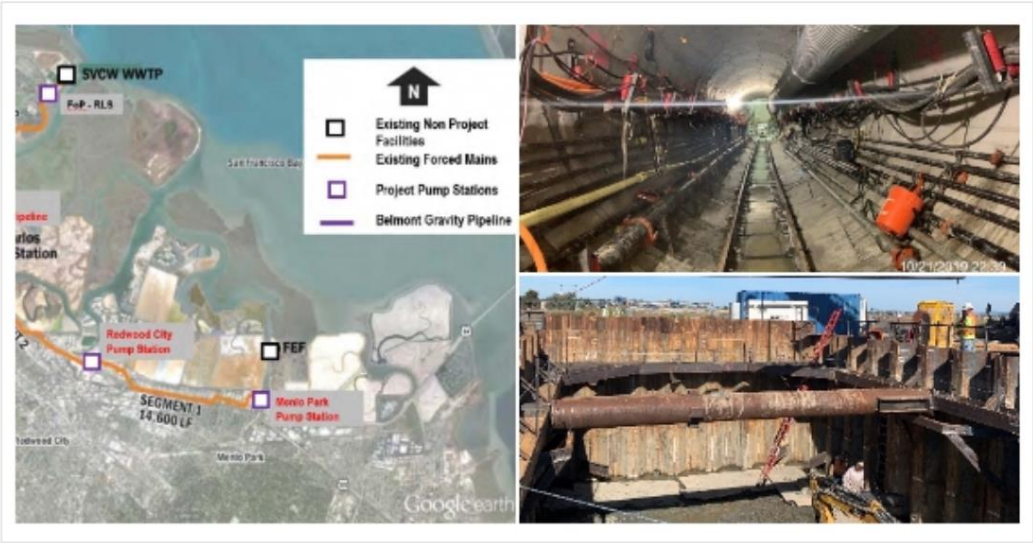
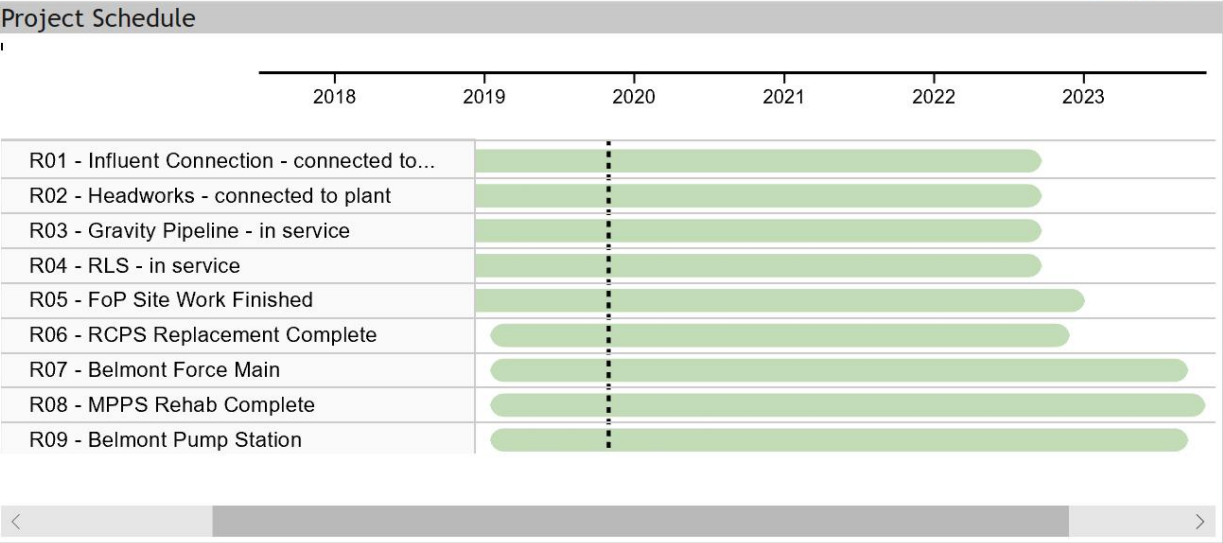
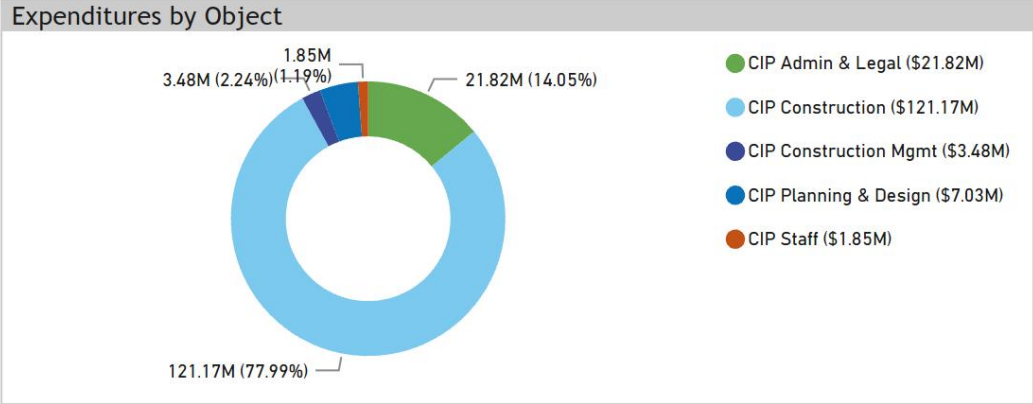
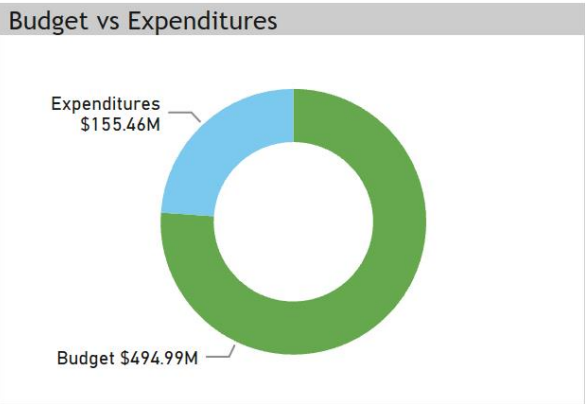
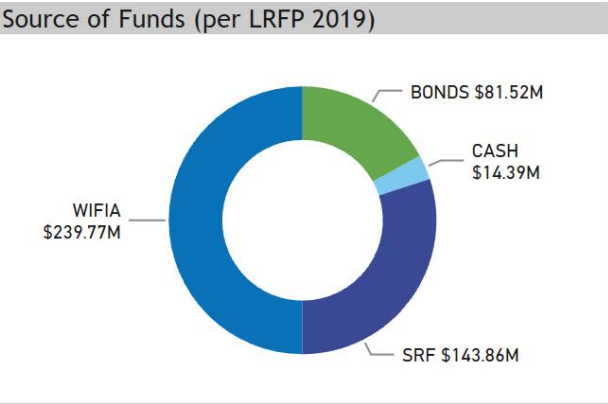
\$494.99M

Total Expenditure

\$155.46M

Remaining Budget

\$339.52M





# Front of Plant Progressive DB Project



The Front of Plant (FoP) Project consists of the design, construction, permitting, start-up, commissioning, and final acceptance for the Receiving Lift Station (RLS), Surge and Flow Splitter (SFS), Headworks Facility, Odor Control Facilities, Influent Connector Pipe, Storage and Chemical Offload Facilities, Civil site work, Emergency Overflow pipe to storage basin and related process support systems. Work is being implemented under a Progressive Design-Build procurement process in stages.

Available Budget

\$137.81M

Total Expenditure

\$56.59M

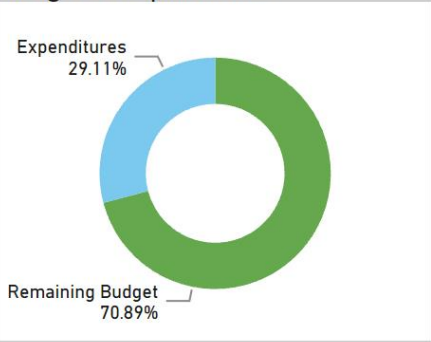
Remaining Budget

\$81.21M

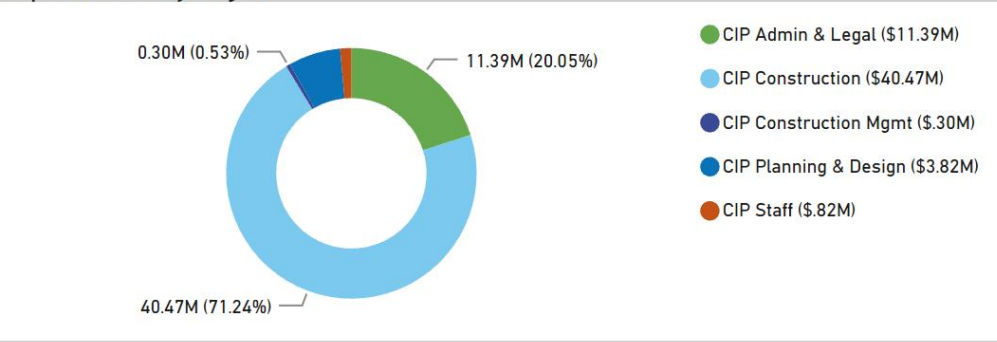
### Milestone Schedule

	Start	Finish
95 Percent (%) Design Documents	10/27/2019	11/1/2019
Stage 2C - RLS Shaft Construction	10/11/2018	2/25/2020
Headworks Completed/Early Start-Up	12/6/2018	10/24/2021
SFS/RLS Operational	12/6/2018	8/28/2022
Stage 2D - Balance of Stage 2 Work Final Completion	12/6/2018	10/20/2022

### Budget vs Expenditures



### Expenditures by Object



### Construction KPIs

31.55%  
% Complete

29.22%  
% Expenditures

As of : 2019 - 11



## Major Accomplishments this Period

Design	<ul style="list-style-type: none"> <li>- SPJV reissued the 95% design package.</li> <li>- SVCW reviewed asset tagging setforth by SPJV for compliance with SVCW's standards. SPJV to use tagging in their startup and testing plan.</li> <li>- SPJV to reissue the 95% design package and control narrative next month with the finalized asset tags.</li> <li>- Continued development of the odor control system and grit removal/washer systems as they relate to the FoP control narratives</li> </ul>
Procurement of Trade Packages	<ul style="list-style-type: none"> <li>- SPJV provided submittals for the grit pumps, magnetic flow meters, air and vacuum relief valves, and the Duperon barscreens/washer compactor for review.</li> <li>- SPJV is finalizing submittals of other major equipment (slide gates, bulkhead, elevator, VFDs, piping, odor control, HVAC) with preferred manufacturers for submission</li> <li>- WIFIA and SRF requirements compliance for trade packages are in progress</li> <li>- SPJV executed contracts with multiple subcontractors for upcoming work</li> </ul>
Construction	<ul style="list-style-type: none"> <li>- Completed placement of 12 of 29 wall panels for the Headworks Facility</li> <li>- Completed mass excavation of the RLS</li> <li>- Began mass excavation of the SFS</li> </ul>

## Potential Issues

Change order for odor control system.  
Credit for the deletion of the chemical storage system.  
New County/Local Sales Tax

## 3 - Month Look Ahead

	Start	End	November	December	January
Installation of Elevation 115' Walls	October 3, 2019	December 13, 2019	X	X	
RLS and SFS Concrete Base Slab Work	October 22, 2019	January 7, 2020	X	X	X
RLS and SFS Excavation Work	July 22, 2019	November 21, 2019	X		

## Project Changes

No project change orders at this time

## Safety Spot Light

Category	Value
Lost Time	0
Near Misses	0
Recorded Losses	0



# Gravity Pipeline Progressive DB Project



The Gravity Pipeline (GP) Project consists of the design, construction, permitting, start-up, commissioning, and closeout of approximately 17,600 feet of wastewater gravity FRP pipe inside a concrete-segment tunnel. The work includes three shafts and will interface directly with the Front of Plant (FoP) Project at the Surge & Flow Shaft (SFS). Work is being implemented under a Progressive Design-Build procurement process.

Available Budget

\$253.25M

Total Expenditure

\$94.95M

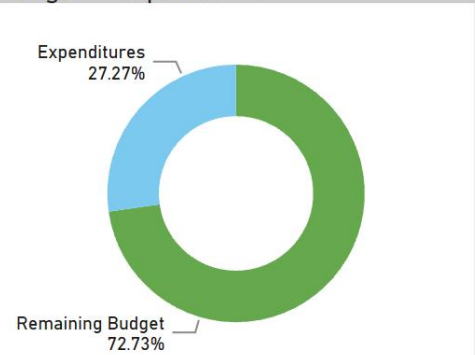
Remaining Budget

\$158.31M

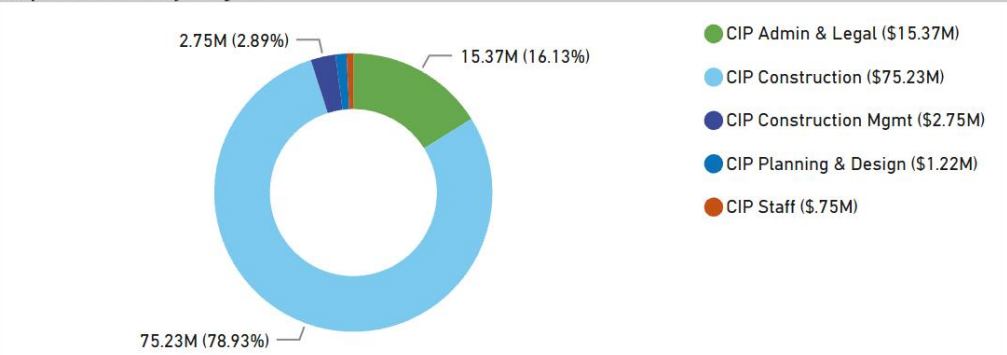
## Milestone Schedule

	Start	Finish
100% Design Documents		4/6/2020
Bair Island Shaft Construction	6/24/2019	2/14/2020
TBM Drive (AAS to Bair Island)	9/17/2019	6/26/2020
San Carlos Shaft Construction	6/4/2020	2/7/2022
TBM Drive (AAS to SFS)	9/1/2020	10/18/2021
FRP Pipe Installation	8/18/2021	5/10/2022
Final Commissioning		7/1/2022

## Budget vs Expenditures



## Expenditures by Object



## Construction KPIs

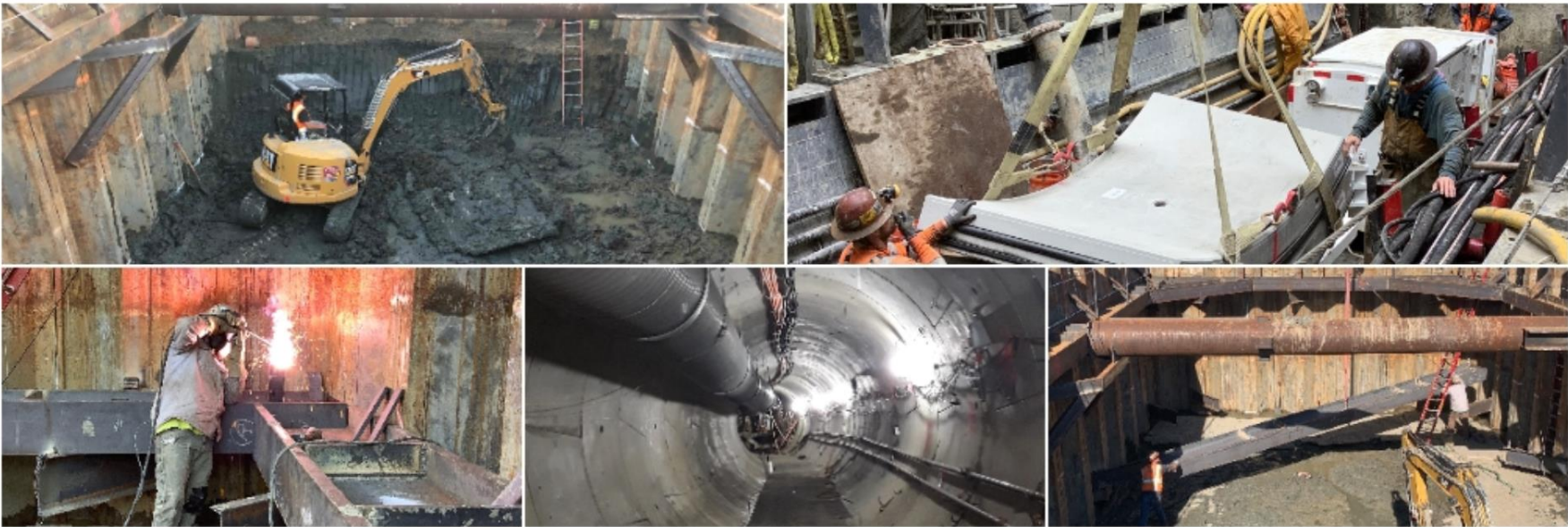
33.33%

% Complete

30.00%

% Expenditures

As of : 2019 - 11





Major Accomplishments this Period

▼	
Design	- Issued for Construction Specifications under development - 60% Design for San Carlos and Bair Island connecting pipework/inlets was submitted and under review
Procurement of Trade Packages	- Pipe Storage contract executed - Outreach in conformance with SRF and WIFIA funding requirements
Construction	- BBJV completed the first stage of TBM assembly in tunnel and constructed 49 rings (245 LF) - BBJV excavated to level 2 of the Bair Island Shaft

Potential Issues

County Permits and Easements.
New County Sales Tax
Tarrifs on Chinese Steel

3 - Month Look Ahead

	Start	End	November	December	January
100% Design Completion	August 10, 2018	March 11, 2020	X	X	X
Bair Island Shaft Excavation	September 30, 2019	November 26, 2019	X		
First Shipment of FRP Pipe	November 15, 2019	December 25, 2019	X	X	
Launch TBM for Bair Island Drive	September 17, 2019	May 8, 2020	X	X	X

Project Changes

No project change orders at this time
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Safety Spot Light

Category	Value
Lost Time	0
Near Misses	0
Recorded Losses	0



# Pump Stations



All SVCW pump stations require replacement or rehabilitation. Menlo Park PS will be rehabilitated. Redwood City PS will be replaced. Belmont PS will be rehabilitated. San Carlos PS is no longer needed due to the new gravity pipeline; flows from San Carlos and Belmont will enter into the gravity pipeline via a drop structure at the current San Carlos pump station site. Flows from the MPPS and RCPS will flow through the new 48-inch force main to a drop structure at Inner Bair Island. This project also includes replacement of the Belmont Force Main and will be implemented via a Progressive Design-Build Process.

Available Budget

\$103.93M

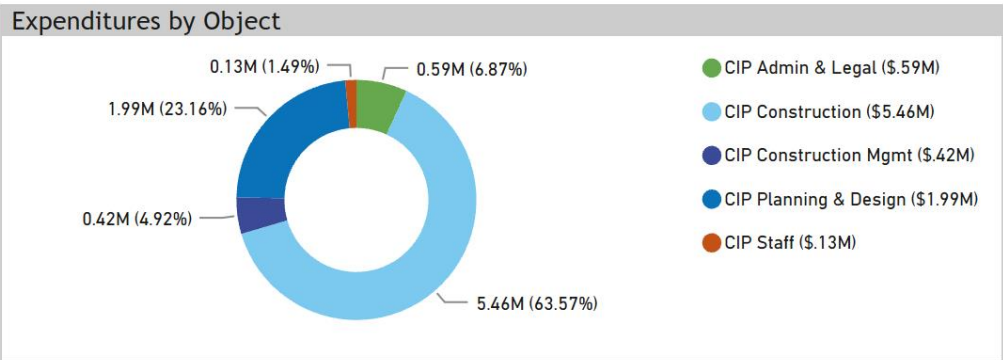
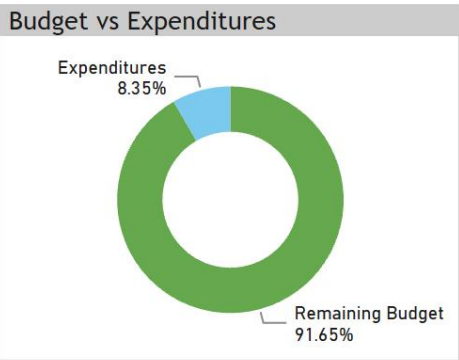
Total Expenditure

\$9.66M

Remaining Budget

\$94.46M

Milestone Schedule		
	Start	Finish
PSI Project Procurement process approved by Commission	7/13/2018	7/13/2018
Recommend Award of DB Agreement to Commission	2/25/2019	2/25/2019
Basis of Design Report (BODR)	7/1/2019	10/7/2019
30 Percent (%) Design Documents	7/2/2019	9/19/2019
60 Percent (%) Design Documents	8/19/2019	12/9/2019
Stage 1 Services Complete		1/17/2019



Phase 2 is scheduled to start on 1/20/2020.

No % Complete or % Expenditures available at this time.



## Major Accomplishments this Period

- Design
- MPPS Rehab and Belmont Gravity Pipeline 60% designs is under review by SVCW.
  - RCPS 60% design is in development by SPJV.
  - Ongoing coordination with GP project.
  - Potholing for utility-locating completed at proposed CARV replacement locations along the Segment 1 Force Main was completed.
  - Significant work on EIR update this period (Belmont PS replaced with Gravity Pipe) EIR update to be completed November.

## Potential Issues

No issues to note for this period.

## 3 - Month Look Ahead

	Start	End	November	December	January
60% Design Package	August 19, 2019	December 9, 2019	X	X	
BIM Model Development, Analysis, and Support	October 8, 2019	January 20, 2020	X	X	X
BODR & 30% Design Documents	May 24, 2019	December 9, 2019	X	X	
Control Strategy / Narratives Development	May 23, 2019	November 15, 2019	X		
Cost Modeling Development and Estimates	May 3, 2019	December 13, 2019	X	X	
Design & Construction Phasing Plan	May 27, 2019	November 15, 2019	X		
Modeling	May 24, 2019	December 3, 2019	X	X	
P&ID, Master Equipment & I/O List Development	July 2, 2019	November 15, 2019	X		
Permitting & Public Outreach Support	February 28, 2019	January 20, 2020	X	X	X
Preliminary Staffing & Staff Training Plan	October 9, 2019	November 1, 2019	X		
Preliminary Startup, Testing and Acceptance Plan	September 30, 2019	December 6, 2019	X	X	
Proposed Stage 2 Amendment	December 16, 2019	January 20, 2020		X	X

## Project Changes

No project change orders at this time

## Safety Spot Light

Category	Value
Lost Time	0
Near Misses	0
Recorded Losses	0