



# Vendor Open House

*Capital Improvement Program*

SEPTEMBER 25, 2014



San José-  
Santa Clara  
Regional  
Wastewater  
Facility

# Agenda

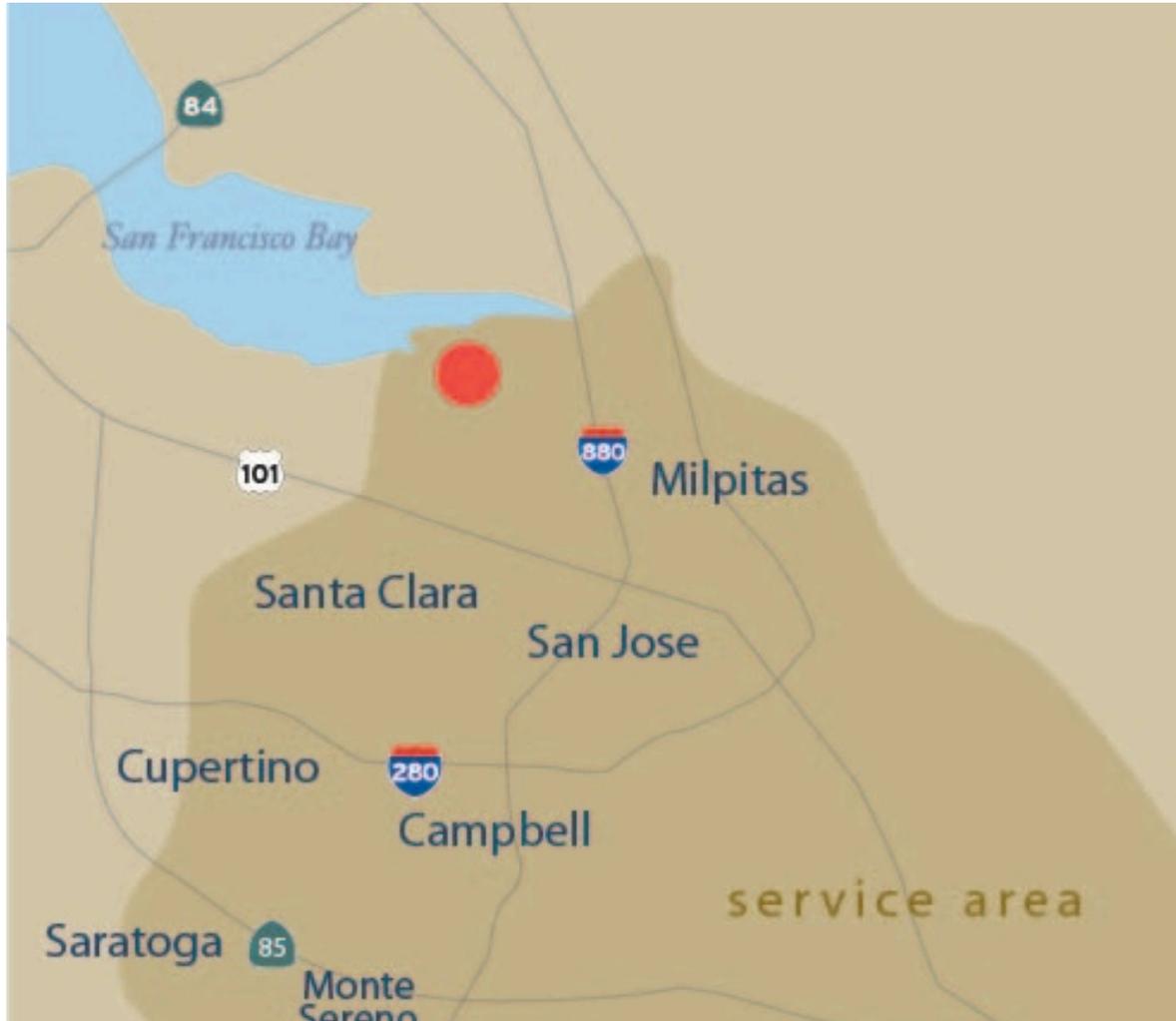
- Regional Wastewater Facility (RWF) Overview
- Capital Improvement Program (CIP) Overview
- Current and Upcoming Projects
- Procurements
- Questions and Answers (Q&A)

# RWF Overview

# San José-Santa Clara Regional Wastewater Facility



# Who We Serve



# What We Do



Treat water to high standard

Deliver drought-proof water supply



# Produce High-Quality Biosolids



# Strive to be Energy Self-Sufficient



Use sustainable energy sources

Produce sustainable energy sources



# Foster a Thriving Ecosystem



# CIP Program Overview

# Plan for the Future



# Milestones Reached

- September 2013: Program management firm contracted
- November-December 2013: Master Plan adopted and Environmental Impact Report certified
- February 2014: Validation process completed, 33 project packages identified, and CIP updated
- April-May 2014: Programmatic studies started
- July 2014: Program startup completed

# Mission and Vision

## **ESD** Mission Statement

Delivering world-class utility services and programs to improve our health, environment, and economy.

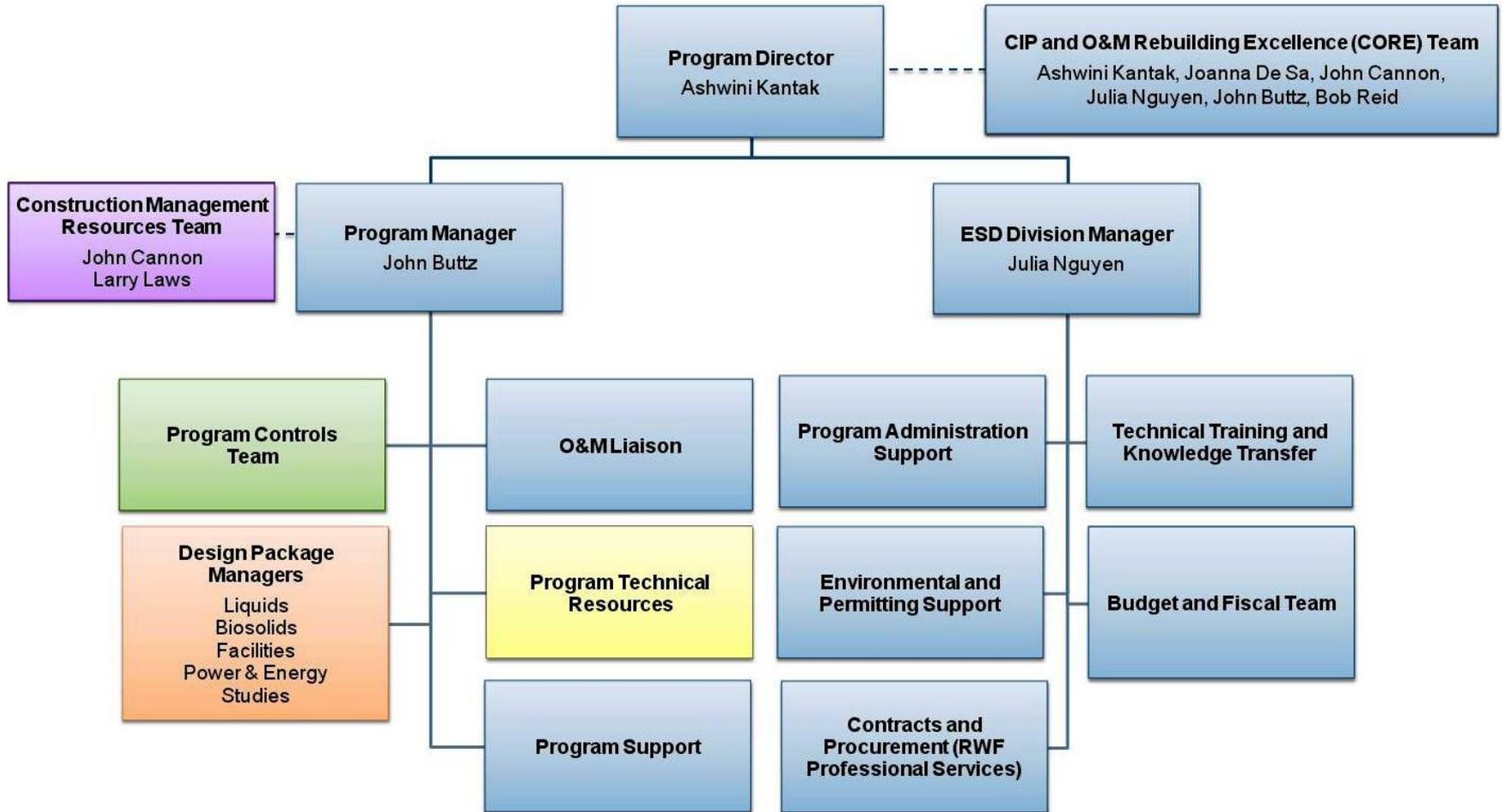
## **CIP** Program Mission

Rebuild and revitalize the Regional Wastewater Facility and deliver the CIP on time and within budget.

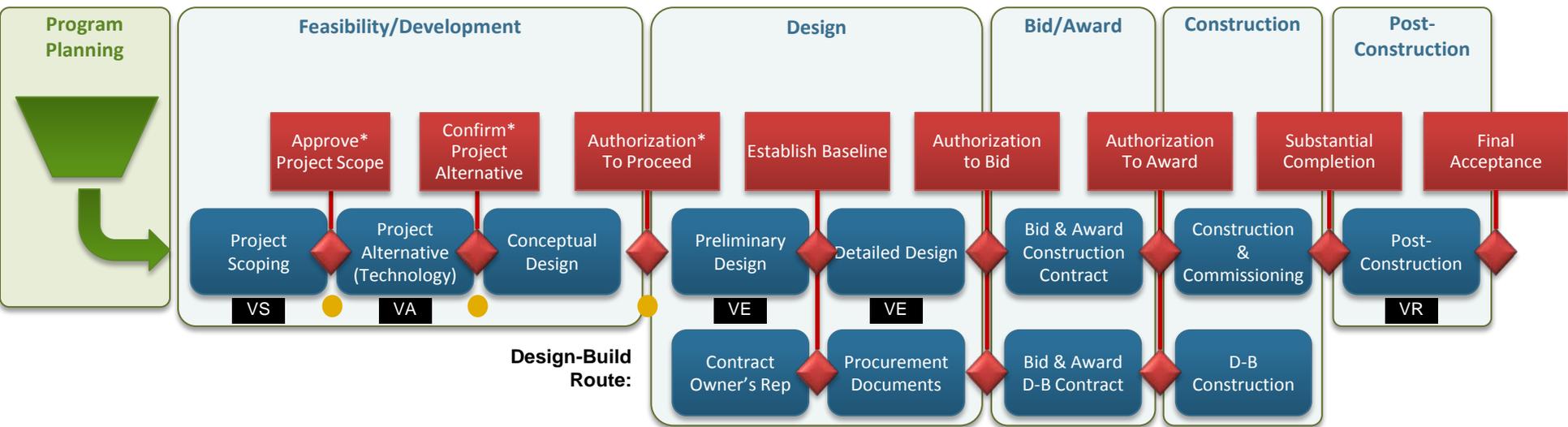
## **CIP** Program Vision

To deliver a world class facility that successfully serves the region.

# Program Team Organization



# Project Delivery Model (PDM)



**Key**

- Stage Gates
- Stages
- Optional Points to Hire Consultant and/or re-direct project
- VS Value Scoping
- VA Value Analysis
- VE Value Engineering
- VR Value Review

# Standards and Tools

- Design Guidelines Library
  - Standard Specifications
  - Standard Details
  - Other Design Guidelines Documents
  
- Online Document Management
  - All project deliverables will be handled via the web

# The Next Six Months

- Approval to use progressive design-build for Cogeneration Facility
- Odor Study
- Flow and Load Study
- Biosolids Strategy
- 10-Year Funding Strategy
- Develop Next 5-Year CIP
- Operations Plan

# Current and Upcoming Projects

# Programmatic Studies

1. Design Criteria and Sizing Basis
2. Aeration Demands and Biosolids Production Assessment
3. Odor and Corrosion Control Study
4. Automation Master Plan
5. Yard Piping Condition Assessment
6. Facility-Wide Heating and Cooling Systems Evaluation
7. Site Improvement Guidelines
8. Facility-Wide Process Risk Assessment
9. Asset Management Approach and Strategy

# Major Improvements – Liquids\*

## Next Five Years

- **Iron Salt Feed Station (\$3.1M) – Under Design**
- **Advanced Facility Control and Meter Replacement (Phase 1 – \$2.0M, Phase 2 – \$21.1M)**
- **Filter Rehabilitation (\$18.8M)**
- **Headworks Improvements (\$19.4M)**
- **New Headworks (\$63.2M)**
- **Aeration Tanks and Blower Rehabilitation (\$82.2M)**
- **East Primary Rehabilitation, Seismic Retrofit, and Odor Control (\$75.9M)**
- **Secondary and Nitrification Clarifier Rehabilitation (\$41.3M)**

*\* Amounts listed are construction cost estimates that are subject to change.*

# Major Improvements – Biosolids\*

## Next Five Years

- **Digester and Thickener Facilities Upgrade (\$54.3M) – Under Design**
- **Digested Sludge Dewatering Facility (\$47.0M)**
- **Lagoons and Drying Beds Retirement (\$21.2M)**
- **Thermal Drying Facility (\$90.9M)**

\* Amounts listed are construction cost estimates that are subject to change.

# Major Improvements – Power & Energy\*

## Next Five Years

- **Emergency Diesel Generators – Being Constructed**
- **Digester Gas Compressor Upgrade – Being Constructed**
- **Digester Gas Storage Replacement – Being Constructed**
- **Plant Instrument Air System Upgrade (\$7.7M)**

\* Amounts listed are construction cost estimates that are subject to change.

# Major Improvements – Facilities\*

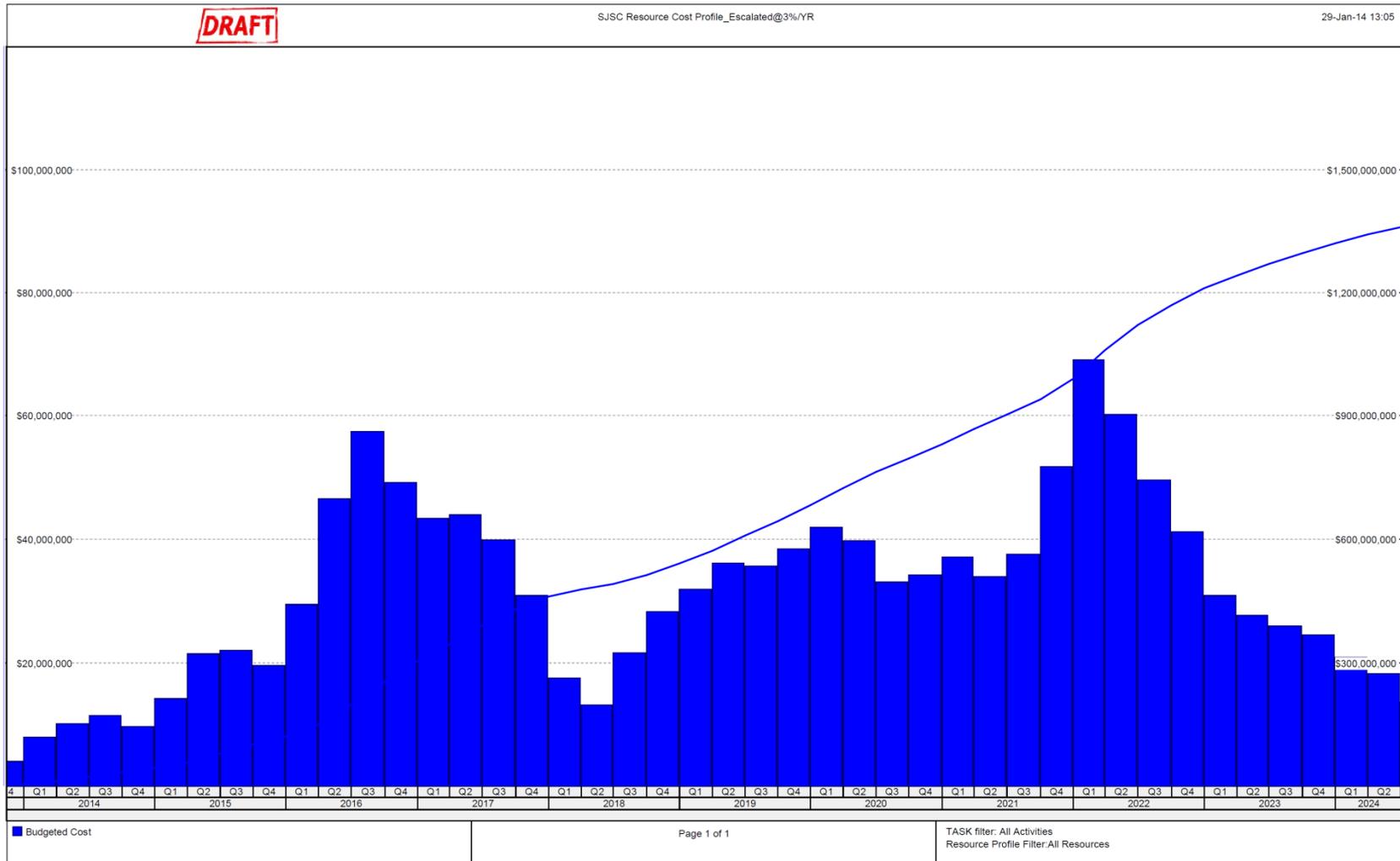
## Next Five Years

- **Cogeneration Facility (\$74.4M)**
- **Outfall Bridge and Levee Improvements (\$5.4M)**
- **Facility-Wide Water Systems (\$9.8M)**
- **Tunnel Rehabilitation (\$17.9M)**
- **Yard Piping and Road Improvements (\$88.2M)**
- **Support Building Improvements (\$38.7M)**
- **Record Drawings (\$13.6M)**

\* Amounts listed are construction cost estimates that are subject to change.

# Estimated Timing of Projects

## 10 Year Cash Flow by Quarter – Escalated (3%)



**\$1.4 billion**

# Procure- ments

# Procurement Overview

- 10 Project Design Procurements to be Advertised this Fiscal Year
  - Master Service Agreement with Service Orders, or
  - Standard Contract
  
- Design Services to Include:
  - Alternatives Analysis, Conceptual Design, and...
  - Either:
    - » *Final Design and ESDC (if Design-Bid-Build), or*
    - » *Owner's Agent and Construction Management (if Design-Build)*
  
- 3<sup>rd</sup> Party Construction Management Services for Design-Bid-Build
  
- Three Program-Level Master Service Agreements
  - General Engineering for Small Projects, As-Needed
  - Value Engineering and Peer Review
  - Audit Services

# Upcoming Procurements

Type	Project	Services Required*	Planned Advertising Date	Planned Award Date	Construction Estimate
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## LIQUIDS

RFQ	Advanced Facility Control and Meter Replacement – Phase 1	Design Services & Engineering Support through Commissioning	Winter 2014	Spring 2015	\$2.0 million
RFQ	Secondary and Nitrification Clarifier Rehabilitation	Design Services & Engineering Support through Commissioning	Winter 2014	Summer 2015	\$41.3 million
RFQ	Filter Rehabilitation	Design Services & Engineering Support through Commissioning	Spring 2015	Fall 2015	\$18.8 million
RFQ	Headworks Improvements	Design Services & Engineering Support through Commissioning	Spring 2015	Fall 2015	\$19.4 million
RFQ	New Headworks	Design Services & Engineering Support through Commissioning	Spring 2015	Fall 2015	\$63.2 million

## BIOSOLIDS

RFQ	Digested Sludge Dewatering Facility (Design-Build)	Owner's Representative & Construction Management	Spring 2015	Fall 2015	\$47.0 million
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## POWER & ENERGY

RFQ	Plant Instrument Air System Upgrade	Design Services & Engineering Support through Commissioning	Spring 2015	Fall 2015	\$7.7 million
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\* Projects are currently assumed to be delivered using the traditional design-bid-build method. If City chooses to use an alternative delivery method, such as design-build, consultant will perform owner's representative and construction management services.

# Upcoming Procurements

Type	Project	Services Required*	Planned Advertising Date	Planned Award Date	Construction Estimate
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## FACILITIES

RFQ	Cogeneration Facility (Design-Build)	Owner's Representative & Construction Management	Winter 2014	Spring 2015	\$74.4 million
RFQ/RFP	Cogeneration Facility (Design-Build)	Design-Builder	Winter 2014	Summer 2015	\$74.4 million
RFQ	Outfall Bridge and Levee Improvements	Design Services & Engineering Support through Commissioning	Winter 2014	Summer 2015	\$5.4 million
RFQ	Facility-wide Water Systems Improvements	Design Services & Engineering Support through Commissioning	Spring 2015	Fall 2015	\$9.8 million

## PROGRAM

RFQ	For small, as-needed projects not included in the 10-year CIP Program	General Engineering Master Agreements	Winter 2014	Spring 2015	N/A
RFQ	For various capital projects	Value Engineering/Peer Review Master	Winter 2014	Spring 2015	N/A
RFQ	For various capital projects	Audit Services Master Agreement	Winter 2014	Spring 2015	N/A

\* Projects are currently assumed to be delivered using the traditional design-bid-build method. If City chooses to use an alternative delivery method, such as design-build, consultant will perform owner's representative and construction management services.

# Additional Information

- BidSync  
[www.bidsync.com](http://www.bidsync.com)
- CIP Document Library  
[www.sjenvironment.org/cip](http://www.sjenvironment.org/cip)
- San José-Santa Clara Regional Wastewater Facility  
[www.sjenvironment.org/rwf](http://www.sjenvironment.org/rwf)

# BidSync

- [www.bidsync.com](http://www.bidsync.com)



- Send additional questions to John Cannon (john.cannon@sanjoseca.gov)
- When procurements come out, the cone of silence comes down.



Source:

<http://thingsthatmadeanimpression.wordpress.com/2013/12/14/dialogue-from-get-smart-mr-big-cone-of-silence/>

# CIP Document Library

The screenshot shows the San Jose CA website with the following elements:

- Header:** "sanjoseca.gov" logo, search bar, and navigation links: Home, City Services, Departments, Follow Us, Sign up.
- Image:** A scenic view of a park with a pond and people walking.
- Environment Section:** A dark blue bar with the word "Environment" in white.
- Navigation:** A horizontal menu with tabs for "Community", "Business", "Visitors", "Government", and "Environment".
- Left Sidebar:** A vertical menu with "Environment" at the top, followed by "Biosolids", "Burrowing Owls", "Capital Improvement Program", "History", "Wastewater Jobs", "Laboratory", "Facility Lands", "Plant Master Plan", "Treatment Plant Advisory Committee (TPAC)", "Treatment Process", "Resources", and "CIP Document Library" (circled in red).
- Main Content Area:**
  - Home > Environment > Water & Sewer Utilities > Wastewater (Sanitary Sewer) > San José-Santa Clara Regional Wastewater Facility > Capital Improvement Program
  - Capital Improvement Program**
  - Projects for the Capital Improvement Program**
  - The Plant Master Plan recommended over 100 projects to be part of a 30-year Capital Improvement Program (CIP). These projects are broken up into three phases:
    - Phase 1: \$450 million (2012-2021) for repair and rehabilitation project
    - Phase 2: \$416 million (2013-2021) for new biosolids dewatering and drying as well as new energy generation
    - Phase 3: \$1,124 million (2021-2040) for projects related to possible regulatory changes and ongoing repair and rehabilitation
  - For the current list of projects being solicited for design and construction, please visit the [Purchasing Department page](#).
  - [Sign up](#) to receive monthly CIP Status Reports by selecting "Environment - San José-Santa Clara Regional Wastewater Facility" from the available lists under "News Flash."
- Right Sidebar:**
  - News & Announcements**
  - San José welcomes 29 burrowing owl chicks in 2014**  
Western burrowing owls are thriving on the bufferlands of the San José-Santa Clara Regional Wastewater Facility in northern San José. [Read on...](#)
  - San José-Santa Clara Regional Wastewater Facility Vendor Open House**  
Thursday, September 25, 2014, 3:30-6:30 p.m. [Read on...](#)
  - CIP Monthly Status Report - July 2014**  
This report provides a summary of the progress and accomplishments of the Capital Improvement Program (CIP) for the San José-Santa Clara Regional Wastewater Facility ("Wastewater Facility") for the period of July 2014. [Read on...](#) [View All](#)

- Footer:**
- San José City Hall**  
200 E. Santa Clara St.  
San José, CA 95113  
408 535-3500 Main  
408 294-9337 TTY  
[Directions](#)
- San José City Hall** logo
- The City of San José is committed to open and honest government and strives to consistently meet the community's expectations by providing excellent service, in a positive and timely manner, and in the full view of the public.
- About sanjoseca.gov  
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My Connection
- Code of Ethics  
Open Government  
Whistleblower Hotline  
Accessibility Instructions  
Powered by CIVICPLUS
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Newsroom  
Site Map  
Employee Web Mail  
Employee Login
- CITY OF SAN JOSE**  
CAPITAL OF SILICON VALLEY
- San José-Santa Clara Regional Wastewater Facility logo
- Select Language

# Our goal...One Mission...One Vision



**Q&A**

**San José-Santa Clara Regional Wastewater Facility  
Capital Improvement Program  
Upcoming Procurements**

Type	Project	Services Required*	Planned Advertising Date	Planned Award Date	Construction Estimate
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<b>LIQUIDS</b>					
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<b>POWER &amp; ENERGY</b>					
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**San José-Santa Clara Regional Wastewater Facility  
Capital Improvement Program  
Upcoming Procurements**

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**FACILITIES**

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**PROGRAM**

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San Jose-Santa Clara Regional Wastewater Facility - VENDOR OPEN HOUSE - September 25, 2014

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San Jose-Santa Clara Regional Wastewater Facility - VENDOR OPEN HOUSE - September 25, 2014

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San Jose-Santa Clara Regional Wastewater Facility - VENDOR OPEN HOUSE - September 25, 2014

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