

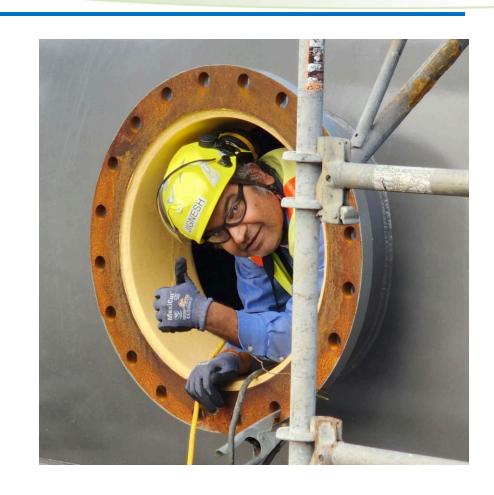
Southeast Plant (SEP) Nutrient Reduction Project

August 7, 2025
LBE Advisory Committee Meeting

Introduction



- Grew up in remote parts of India without access to running water, sanitation, power
- Chemical Engineering degrees, PE in State of California and numerous Professional Certifications along the way.
- Board of Director for Design-Build Institute of America
- 26 years with SFPUC / 5 years at SFO
- Live in SF Bayview, 7 minutes away from Southeast Plant





Reliable Services All Day, Every Day

Investing in our water and sewer systems to protect public health, improve seismic safety, and adapt to climate change.



Our Core Services



Water



DELIVERING HIGH QUALITY WATER EVERY DAY

Power



GENERATING CLEAN ENERGY FOR VITAL CITY SERVICES

Sewer



PROTECTING PUBLIC HEALTH AND THE ENVIRONMENT

We live in a Watershed







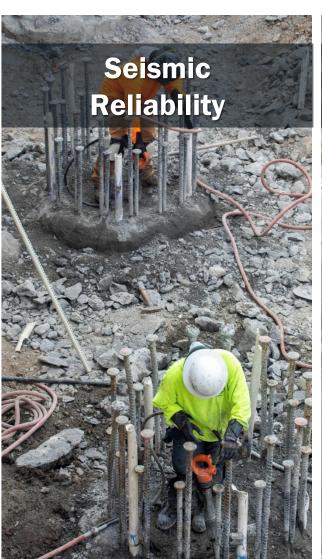
Outdated Facilities

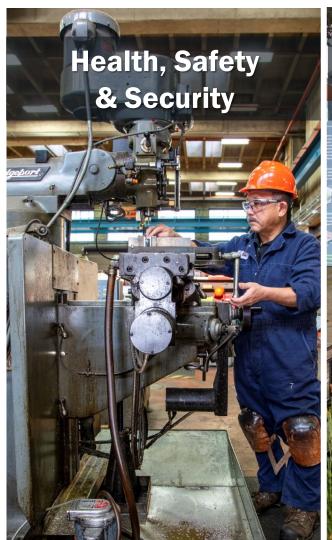
Climate Change

Maintaining Water Quality

Capital Plan – Project Drivers











Southeast Wastewater Treatment Plant Projects

LEGEND

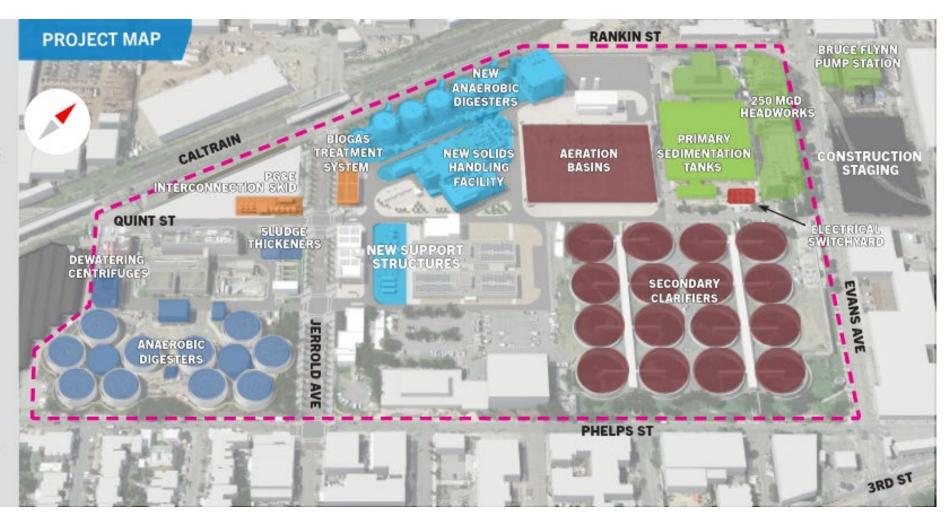
---- Southeast Plant Property Line

Projects Underway

- Biosolids Digester Facilities Project
- SEP Power Feed Project
- Biogas Utilization Project
- 250 MGD Headworks Project

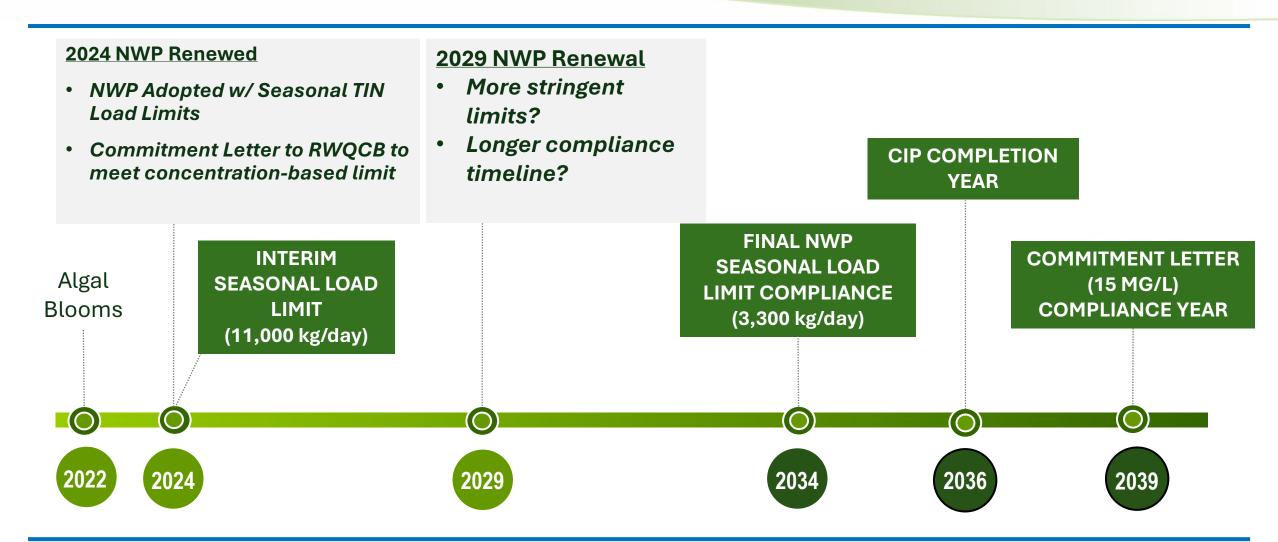
Completed Projects

- Disinfection Upgrades
- Oxygen Generation Plant
- Primary and Secondary Clarifier Upgrades
- Existing Digester Gas Handling Upgrades
- Primary Sedimentation Building Seismic Retrofit & Rehabilitation
- New Southeast Community Center 1550 Evans



Nutrient Watershed Permit (NWP) Reduction Timeline





Progressive DB Procurement



Request for Information

- Notify of upcoming opportunity (PDB, OA)
- Gauge market interest
- Seek market feedback
- **10** respondents (12/2024)
- PDB preferred delivery

Request for Qualification

- Establish essential requirements for firms
- Define minimum qualifications for firms
- **2** respondents (04/2025)

Request for Proposal

- Team qualifications
- Approach to technical and management
- Price
- Agreement

Work-in-progress

Best Value Progressive Design-Build



RFQ Respondents

- Jacobs Project Management Company & PCL Construction Joint Venture Contact:
 - simonette.white@jacobs.com
- 2. Sundt Corporation, Inc. & Carollo Engineers, Inc. Contact:

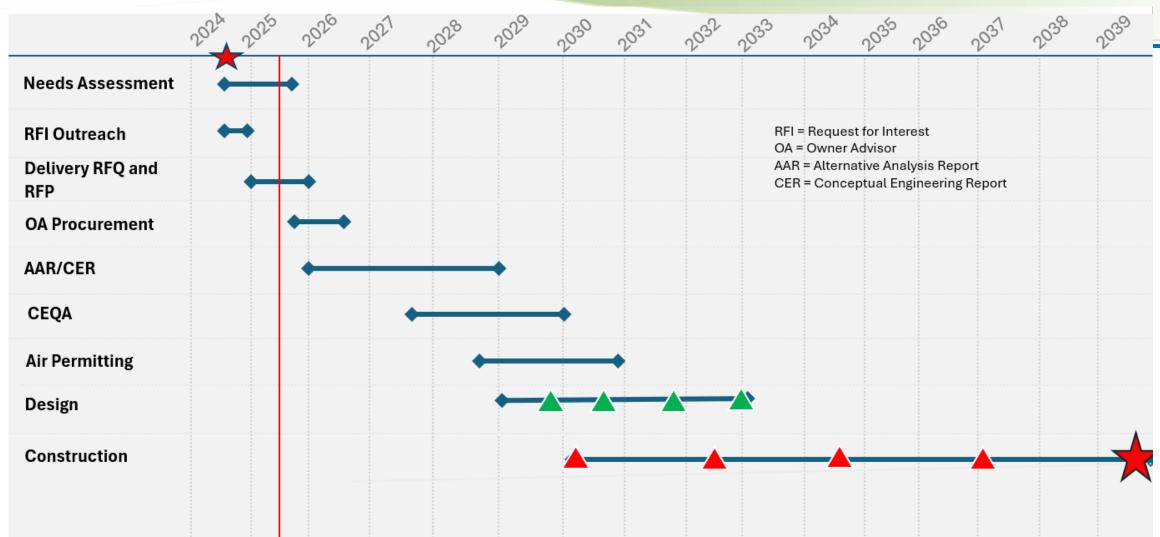
rdfedrick@sundt.com

Relevant Firm Experiences

- ☑ Nutrient treatment
- ✓ SFPUC Wastewater Capital Projects
- Progressive Design-Build delivery

Overview of Project Schedule





\$1 B Nutrient Reduction Regulatory Driven Design-Build Project



Baseline concept

- Retrofit and/or replace existing high-purity oxygen (HPO)
- Retrofit and/or new biological nutrient removal (BNR) process

Performance Requirement

- Reliably meet or exceed nutrient watershed permit limits
- Construct within existing SEP site with minimal disruption to O&M
- Proven technology



Nutrient Project LBE Potential Areas



- Pre-construction / Design
 - Civil Engineering / Geotechnical / Potholing
 - HVAC
 - Mechanical
 - Structural Rehab
- Construction Opportunities
 - Misc Utilities plant air, water, sewer etc
 - Site Civil and Concrete
 - Steel
 - Plumbing
 - Trucking/Hauling

LBE Participation at Southeast Plant



- SFPUC appreciates LBE community to help us build major upgrades at Southeast Plant
 - Biosolids CMGC \$424 Million Dollars Participation Amount
 - Headworks CMGC \$106 Million Dollars Participation Amount
- Nutrient Project Opportunities
 - Higher level of LBE Community Engagement due to Progressive Design Build Process
 - Requirement 10 % Pre-Construction/Design and 13% Construction
 - Anticipated up to \$127 Million Dollars towards LBE Participation

SFPUC Contractors Assistance Center



- Services include technical assistance and classroom training to networking events and one-on-one counseling
- The CAC is FREE and open to the public at 150 Executive Park Blvd, Suite 1300, San Francisco, CA 94134
- Operating hours between 9am to 5pm, Monday to Friday, excluding legal holidays
- 415-467-1040 or acp@sfwater.org.



CAC Website

