New Treasure Island Wastewater Treatment Plant Update
Treasure Island Background

SAN FRANCISCO

ANGEL ISLAND

TREASURE ISLAND

YERBA BUENA ISLAND

OAKLAND

ALAMEDA

MARIN

SAN FRANCISCO
New Treasure Island WWTP - Objectives

• Address aging infrastructure
• Ensure regulatory compliance
• Meet the wastewater and recycled water needs of the future TI/YBI development
New Treasure Island WWTP - Location

Planning Area for New WWTP

Existing WWTP

Existing WWTP and Planning Area for New WWTP
New Treasure Island WWTP

- Projected influent flow at full buildout of the development:
  - Average Dry Weather Flow: 1.3 MGD
  - Peak Dry Weather Flow: 2.3 MGD
  - Peak Wet Weather Flow: 2.9 MGD

- Projected recycled water demand at full buildout of the development:
  - Average Recycled Water Flow: 0.43 MGD
  - Peak Recycled Water Flow: 0.98 MGD

- The SFPUC will finance, build, own and operate the new WWTP which must be operable by the end of 2022.
Project Team

- Carollo Engineers awarded planning and design contract
- Consultant contract NTP – April 18, 2018
- Anticipated Task Order NTP – June 2018
- Project leads
  - SFPUC Project Manager – Tom Birmingham
  - SFPUC Project Engineer – Kevin Jim
  - SFPUC WWE Liaison - Nohemy Revilla
  - Consultant Team Project Manager – Lou Carella
  - Consultant Team Project Engineer – Pavitra Prabhaker
Project Scope

• Phase 1 – Planning and Preliminary Design
  - AAR, CER, and 35% Design

• Phase 2 – Detailed Design, Contractor Procurement, and Engineering Support during Construction
  - Phase 2 scope dependent on outcome of Phase 1
  - Considered “as-needed” until project delivery methods are selected by SFPUC
Treasure Island Wastewater Treatment Facility – AAR

Some things to consider:

• **Liquid technology options**
  • Traditional vs. Cutting edge

• **Biosolids**
  • On island treatment or dewater and send to existing WWTP in San Francisco

• **Effluent disposal**
  • Outfall vs. wetlands

• **Schedule**
  • Existing facility is past it’s useful life and in need of replacement
## Key Project Dates

<table>
<thead>
<tr>
<th>Date</th>
<th>Item</th>
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<tbody>
<tr>
<td>July 2018</td>
<td>Approximate WWTP footprint required for site preparation</td>
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<tr>
<td>July 2018</td>
<td>Decision on effluent disposal required</td>
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<tr>
<td>September 2018</td>
<td>Complete AAR</td>
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<td>February 2019</td>
<td>Complete CER</td>
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<td>Delivery method decision</td>
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<tr>
<td>Summer 2020</td>
<td>Start construction</td>
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<tr>
<td>Summer 2022</td>
<td>Start-up and construction complete</td>
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Next Steps

- Consultant Team NTP
- Determine footprint and effluent disposal method
- Continue coordinating with TICD onsite preparation, including demolition and geotechnical improvements
THANK YOU.
New Treasure Island Development

- Up to 8,000 new homes
- 300 acres of open space (wetlands, parks, trails, etc.)
- Phase 1: starts in 2018, includes 2,100 homes, ~5 years
New Treasure Island WWTP – Project Challenges

• Site preparation
• Effluent disposal
• Construction constraints involved with building on an island
• Critical path for development
• Accelerated schedule to meet development needs
• Others?
## Treasure Island WWTP Project

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<thead>
<tr>
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<th>Start Date</th>
<th>End Date</th>
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Treasure Island Wastewater Treatment Facility – Scope & Schedule

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- Project budget = $67,400,000

Project Timeline (assuming CM/GC):

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- 🟦 Planning through Bid & Award
- 🟠 Construction
- 🅿️ Start-up