Patterson Pass Water Treatment Plant
Upgrades and Ozonation Project

Committed to Providing a Reliable Supply of High Quality Water

Mona Olmsted, Project Manager
Construction Progress Report
Zone 7 Board of Directors Meeting
October 16, 2019
Project Objectives, Cost, & Funding

Objectives

- Increase plant capacity to 24 MGD
- Increase treated water storage capacity an additional 5 MG
- Replace or upgrade many major plant components that are reaching the end of their useful life
- Improve treated water quality and plant reliability

Cost

Approximately $110 million for planning, design, and construction

Funding Sources

Funded by water rates, new connection fees, and bonds ($19 million)

Zone 7 Mission Statement:

“...committed to providing a reliable supply of high quality water... in a fiscally responsible, innovative, proactive, and environmentally sensitive way.”
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Benefits of Ozone Treatment

- More effective disinfection
  - Better at treating organic matter than chlorine

- Reduces potentially harmful Disinfection By-Products (DBPs)

- Enhances water treatment process
  - Reduces coagulant use
  - Reduces sludge handling costs

- Most effective treatment for Contaminants of Emerging Concern (CECs)
  - Provides effective treatment for cyanotoxins, endocrine disruptors, and pharmaceuticals

- Most effective treatment for Taste and Odor (T&O) causing compounds
## Project Status

<table>
<thead>
<tr>
<th>Category</th>
<th>Status</th>
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<tbody>
<tr>
<td>Schedule</td>
<td>Project is on schedule.</td>
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<tr>
<td>Budget</td>
<td>Project budget is under control.</td>
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<tr>
<td>Issues</td>
<td>Project issues are under control.</td>
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<tr>
<td>Decisions</td>
<td>No decisions are requested at this time.</td>
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<tr>
<td>Risks</td>
<td>PG&amp;E re-conductoring schedule/constraints uncertain; more information expected in November</td>
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</tbody>
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Overall project status is **GREEN**.
### Project Schedule

#### Construction Schedule

- Began construction in March 2019
- Complete project by Spring 2022

<table>
<thead>
<tr>
<th>Year</th>
<th>Planning</th>
<th>Design</th>
<th>Bid</th>
<th>Construction</th>
<th>Substantial Completion</th>
<th>Final Completion</th>
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<td>2022</td>
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Plant Site

South Bay Aqueduct (SBA)

Patterson Reservoir

Patterson Pass Water Treatment Plant
Ozone Contactor Structure

From mass excavation to forming sumps, foundation, and walls
Filters

From mass excavation to installing sheet pile shoring for subgrade piping
Chlorine Contact Basin
From mass excavation to tying rebar and pouring concrete for base slab and walls
Treated Water Pump Station
From mass excavation to tying rebar and pouring concrete for base slab and walls
Washwater Recovery Pump Station

From excavation to tying rebar, pouring concrete, and placing pipe spool
Input/ Questions?