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
January 15, 2020
Project Objectives, Cost, & Funding

Objectives
✓ Increase plant capacity from 12 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

**Overall project status is GREEN.**

<table>
<thead>
<tr>
<th>Category</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schedule</td>
<td>Project is on schedule. Project completion in Spring 2022.</td>
</tr>
<tr>
<td>Budget</td>
<td>Project budget is under control. Executed change orders currently at 0.2% of original contract amount.</td>
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<tr>
<td>Issues</td>
<td>Project issues are under control.</td>
</tr>
<tr>
<td>Decisions</td>
<td>No decisions are requested at this time.</td>
</tr>
<tr>
<td>Risks</td>
<td>PG&amp;E re-conductoring schedule/constraints uncertain; PG&amp;E engineering approval anticipated later in January.</td>
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</tbody>
</table>
Ozone Contactor Structure

Installing drain pipes and constructing bottom concrete slab of the structure
Filter Structure

Installing below-slab piping (48” filtered water and 18” filter-to-waste pipes)
Chlorine Contact Basin

Constructing base slab, walls, and roof deck
Treated Water Pump Station

Tying rebar and pouring concrete for walls

12/18/19

12/19/19

11/5/19
Washwater Recovery Pump Station

Constructing walls and roof deck
48-Inch Overflow Pipe
Fusing and installing pipe

10/23/19

11/14/19

12/17/19
New Plant Entrance

Constructing card reader islands, installing guard booth, and finishing culvert

Existing Entrance

New Entrance

10/22/19

10/24/19

11/26/19
Overaa construction contractor (12/12/19)

Input/Questions?

Treated Water Pump Station (12/3/19)

Zone 7 Operations tour (12/13/19)