



Mills Ozone Control System Upgrade

Engineering and Operations Committee

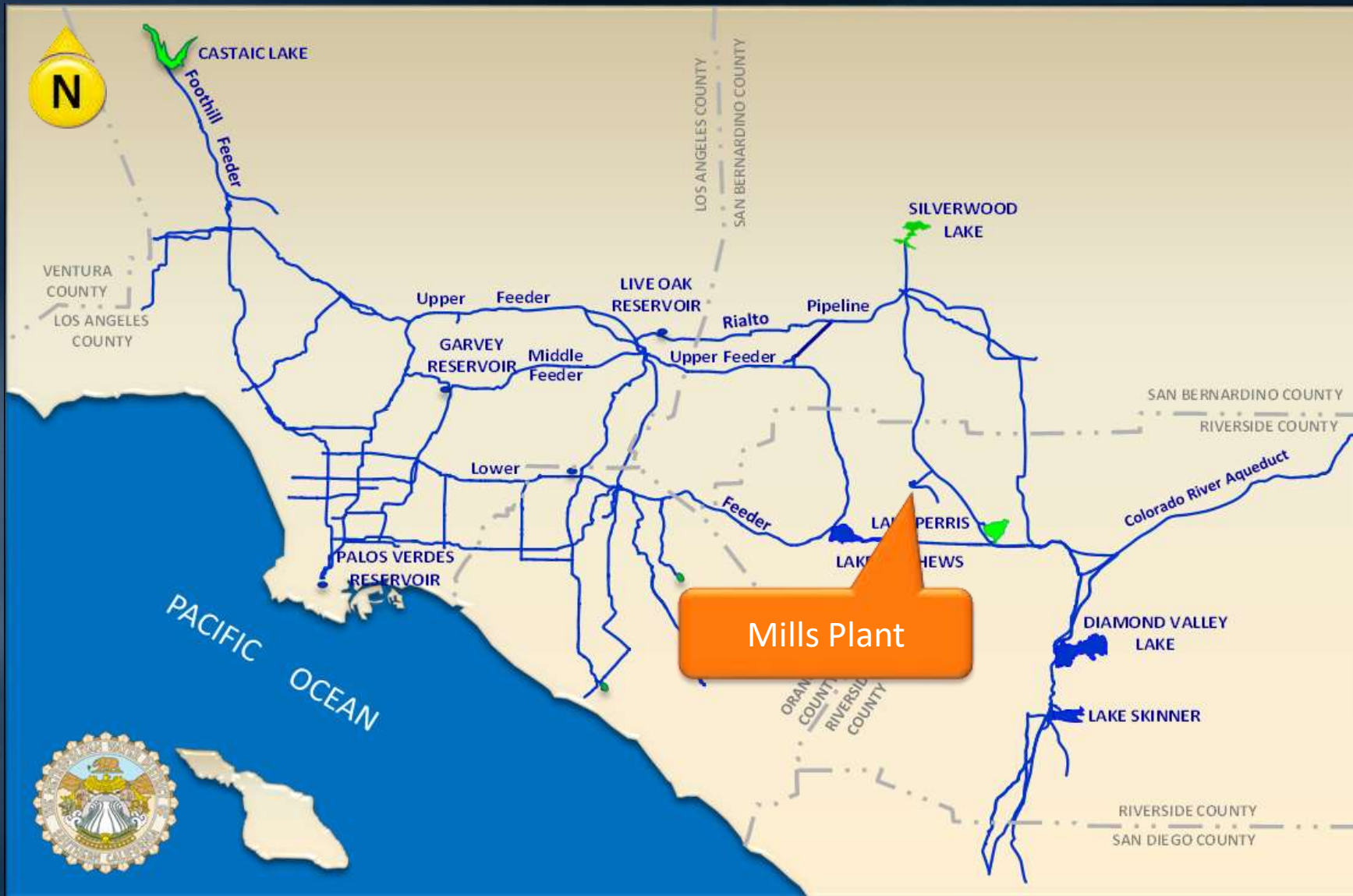
Item 7-2

August 16, 2021

Current Action

- Award a \$492,440 procurement contract to Royal Industrial Solutions to upgrade the ozone control system equipment at the Mills plant
- Authorize an agreement with Suez Treatment Solutions, Inc. for a not-to-exceed total of \$430,000 for specialized technical assistance of the upgrade

Distribution System



Background

- Ozone is primary disinfectant at all treatment plants
- Ozone PLC type used at Mills was first introduced in 1988
- Control & communication equipment is no longer supported by the manufacturer
- Similar upgrades completed
 - Jensen - 2018
 - Skinner - 2021



Ozone Generators



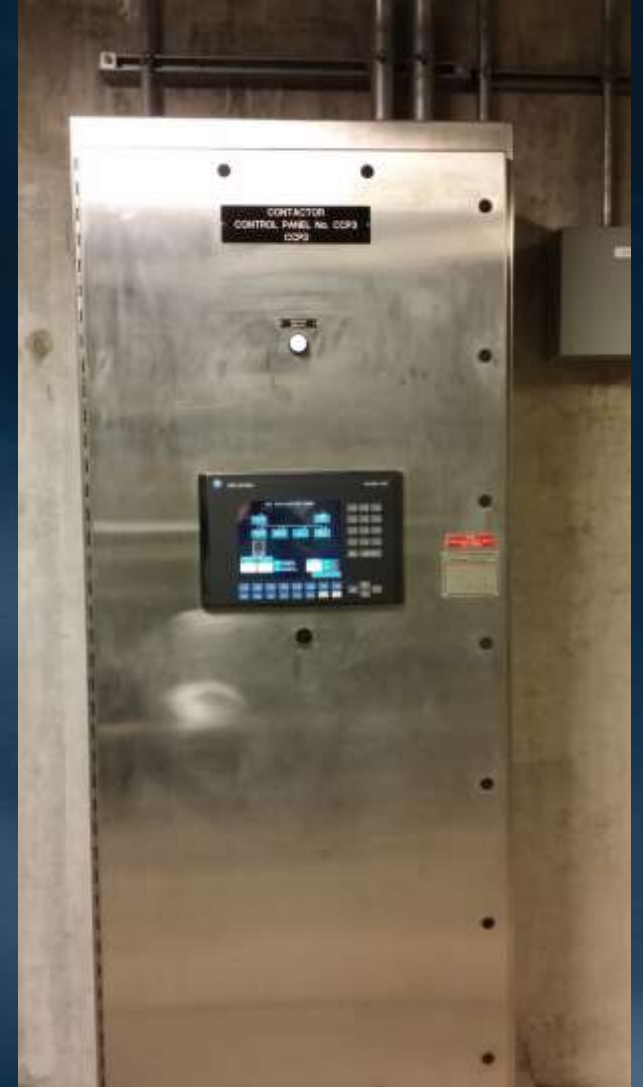
Power Supply Unit

Alternatives Considered

- Utilize Metropolitan staff to update the ozone control system software
 - Requires license to modify proprietary software
- Contract with Suez Treatment Solutions to update the software
 - Selected option
 - Suez staff has in-depth knowledge of the software

Scope of Work

- Replace ozone PLCs, operator interface panel (HMI), & computer communication equipment
- Key activities
 - Procure equipment
 - Install equipment
 - Update ozone control system software



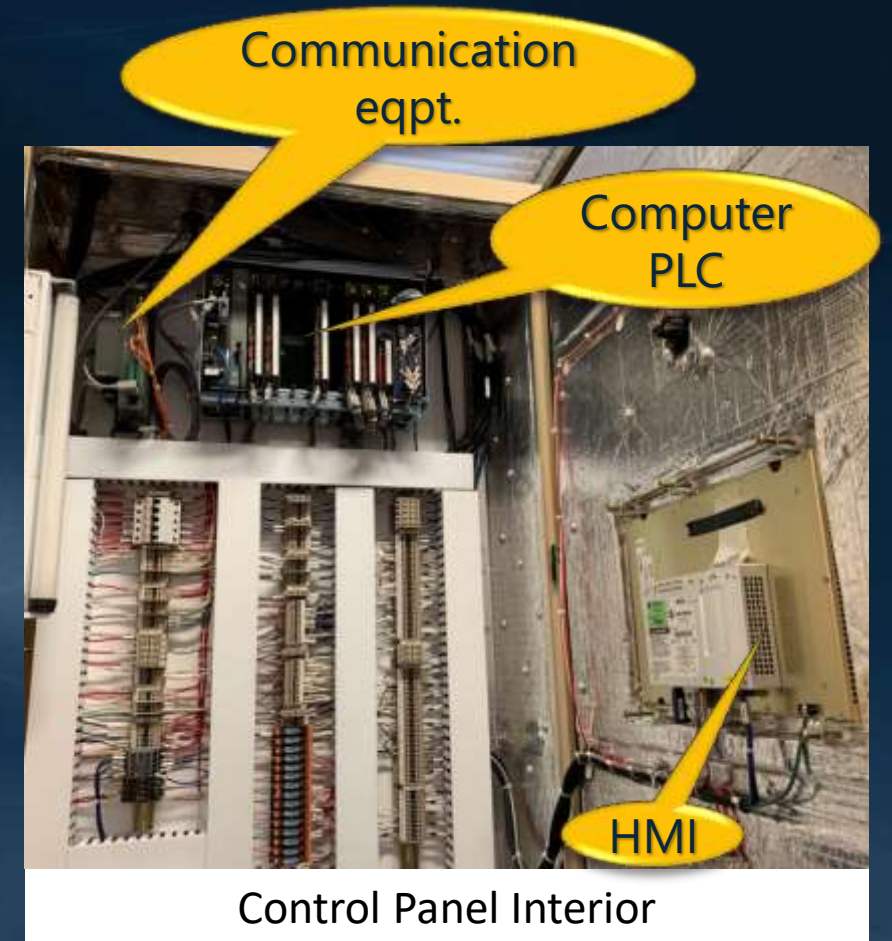
Control Panel

Award of Procurement Contract

- Background
 - Metropolitan standardized on Allen-Bradley PLCs in 2009
 - Sole source procurement consistent with Admin. Code
- Scope of procurement - Royal Industrial Solutions
 - 9 Allen-Bradley PLCs, HMIs & related hardware
- Amount of contract \$492,440
 - Prices consistent with previous procurements

Metropolitan Scope

- Install PLCs & HMIs
- Relocate wiring outside PLCs
- Perform integration tests & confirm functionality



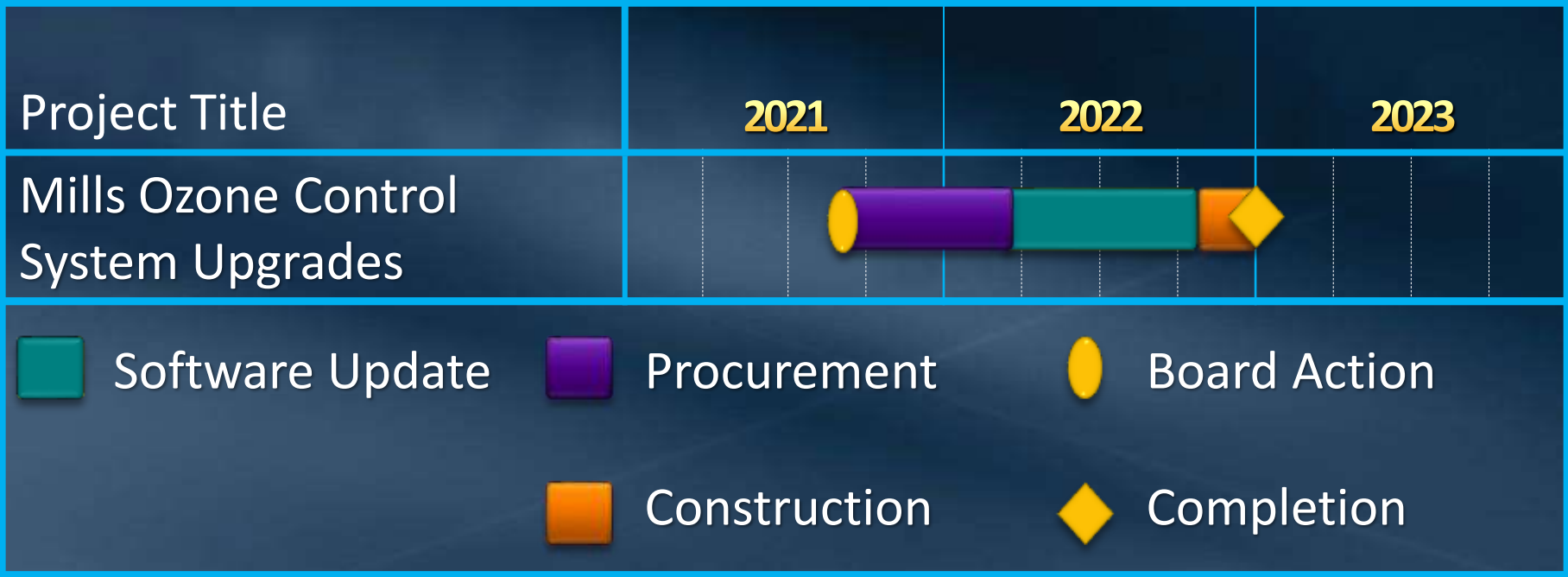
Professional Services Agreement

- New Agreement with Suez Treatment Solutions, Inc.
 - Competitively selected in 1998 to supply original ozone equipment
 - Sole source procurement consistent with Admin. Code
- Scope of Work
 - Update ozone system software for Mills plant
 - Install the control system software, provide start-up, & software testing assistance
- Agreement amount NTE - \$430,000

Allocation of Budgeted Funds

| | Mills Ozone PLC Upgrades |
|------------------------------------|-----------------------------|
| Labor | |
| Program mgmt. & contract admin. | \$ 158,000 |
| Force Construction | 383,000 |
| Submittal review & record drawings | 183,000 |
| Materials & Incidentals | |
| Royal Industrial Solutions | 492,440 |
| Communication equipment & material | 158,000 |
| Professional Services | |
| Suez Treatment Solutions, Inc. | 430,000 |
| Remaining Budget | 288,560 |
| Total | <u>\$2,093,000</u> |

Project Schedule



Board Options

- Option #1

- Award a \$492,440 procurement contract to Royal Industrial Solutions for the ozone control system equipment for the Mills plant; and
- Authorize an agreement with Suez Treatment Solutions, Inc. for a not-to-exceed total of \$430,000 for specialized technical support of the upgrade.

- Option #2

- Do not proceed with this project at this time.

Staff Recommendation

- Option #1

