

Engineering, Operations, & Technology Committee

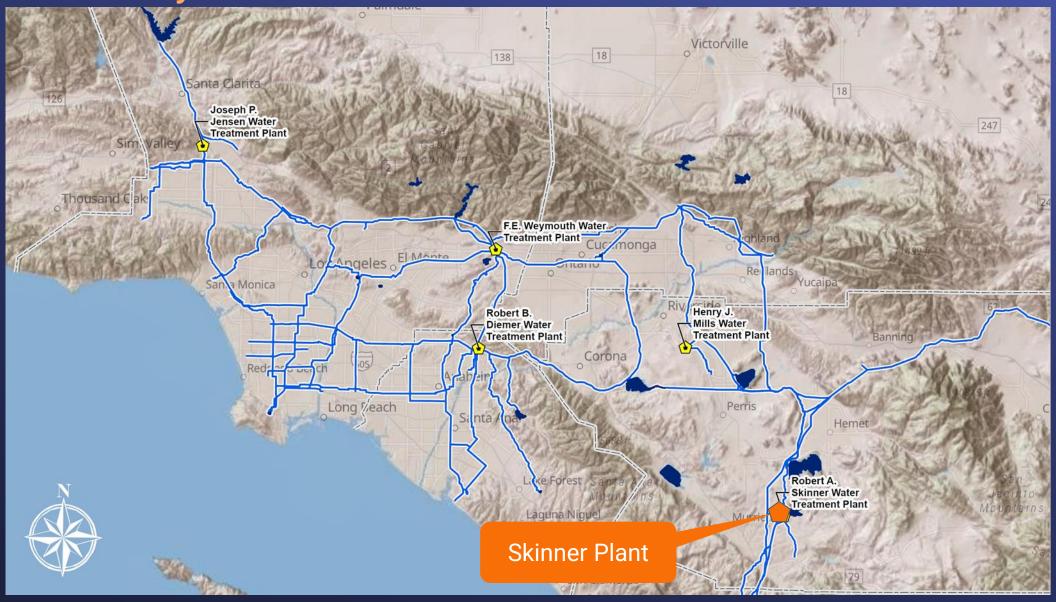
# Skinner Ozone Contactor Structure Rehabilitation

Item 7-6 March 13, 2023

#### **Current Action**

Award a \$394,534 contract to Slater
Waterproofing, Inc. for structure rehabilitation
of the ozone contactor at the Robert A. Skinner
Water Treatment Plant

## Distribution System



#### Background - Skinner Ozone Contactor



- Six Ozone Contactors
  - Each 120 ft long, 38 ft wide, & 30 ft tall
  - Each treats 60 MGD to 125 MGD

- Plant capacity reduced to 350 MGD in July 2017 with Board Item 8-5
  - Contactors 5 & 6 decommissioned





Skinner Ozone Inlet Channel Wall

#### Background

- 2,400 ft of cracks
- Approx. 1/16 in width
- Cracking in concrete is naturally occurring & can self-seal over time
- Sometimes cracks do not self-seal which leads to water leakage
- Unrepaired cracks could lead to:
  - Steel reinforcement exposed to water
  - Corrosion may further weaken the concrete

## Background

- Contactors 3 & 4 were rehabilitated with hydrophilic grout injection July 2019
- Contactors 1 & 2 and Influent Channel are subject to this action



Skinner Ozone Inlet Channel Wall



Close up of Leak on Contactor 1

#### **Alternatives Considered**

- Include decommissioned Contactors 5 & 6
- Selected Alternative Narrow scope to active portions of facility
  - Expeditiously addresses immediate need of existing contactors in use
  - Avoid complicated & costly process to rehabilitate decommissioned contactors

#### Contractor Scope

- Rehabilitate the concrete walls on Contactors 1
   & 2 and the Influent Channel
  - Inject hydrophilic grout into existing cracks
  - Place cementitious mortar as finish layer



**Skinner Contactor 2 Wall** 

#### Metropolitan Scope

- Force Construction
  - General support & logistics
- Conduct construction management & inspection
- Perform submittal reviews & prepare record drawings
- Provide project management, contract admin.,
   & environmental monitoring

# Bid Results Specifications No. 2036

Bids Received

No. of Bidders\*

Lowest Responsible Bidder

Low Bid

Range of Other Bids

Engineer's Estimate

SBE Participation\*\*

January 26, 2023

5

Slater Waterproofing, Inc.

\$394,534

\$498,776 to \$612,575

\$591,000

100%

<sup>\*</sup>One bid withdrawn

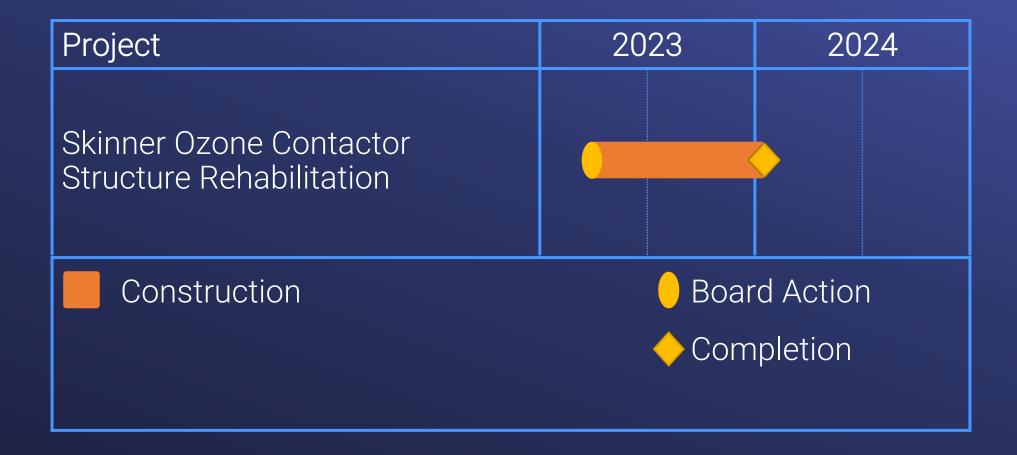
<sup>\*\*</sup>SBE (Small Business Enterprise) participation level set at 25%

#### Allocation of Funds

#### Skinner Ozone Contactor Structure Rehabilitation

Metropolitan Labor		
Owners Costs (Proj. Mgmt., Contract Admin., Envir. Support)		\$ 35,000
Construction Inspection & Support		56,000
Force Construction		18,000
Submittals Review, Tech. Support, Record Dwgs.		50,000
Contracts		
Slater Waterproofing, Inc.		394,534
Remaining Budget		44,466
	Total	\$ 598,000

## Project Schedule



#### **Board Options**

- Option #1
  - Award a \$394,534 contract to Slater Waterproofing, Inc. to rehabilitate concrete walls within the ozone contactor structure at the Robert A. Skinner Water Treatment Plant.
- Option #2
  - Do not proceed with the project at this time.

#### Staff Recommendation

Option #1

