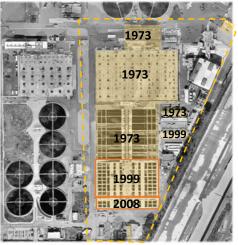


Reason for

the Project

- Equipment passed useful life, obsolete, and difficult to maintain
- Auxiliary utilities are in poor condition



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Equipment at the End of Life



Parts difficult to obtain. Some parts are not readily available and can take 6-8 months to replace.

Blowers



Return Activated Sludge Pumps



Waste Activated Sludge Pumps



Drain Pumps

Equipment at the End of Life







Blower Switchgear

Return Activated Sludge Pump Station Electrical

Standby Power Turbine Generator



Transformers

Switchgear, motor control centers, and standby generators are at or near the end of useful life. For end-of-life equipment, only reconditioned parts are available and are difficult to procure.

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Poor Condition



Corroded Piping



Worn/Damaged Diffusers – Impacts Energy Consumption and Performance

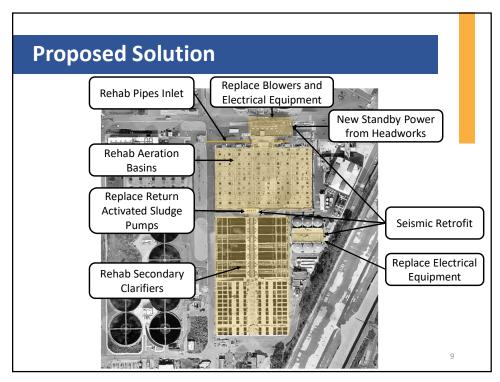


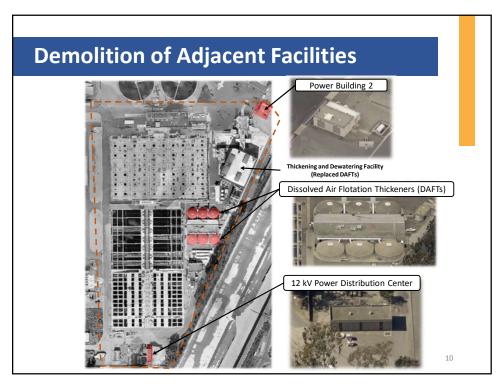
Corroded Slide Gates — Difficult to Open/Close



Worn Sludge Collectors

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- Three proposals received
- Interviews conducted with three firms
- HDR Engineering, Inc. selected
 - Innovative approaches to complete project



Negotiations

	Original Proposal	Negotiated
Total Hours	82,810	82,145
Total Fee	\$18,023,825	\$18,462,443

- Increased condition assessment effort to match scope.
- Moved subcontractor hours to direct costs.
- Deputy project management hours adjusted to allocate less to workshops and meetings.
- Various minor adjustments to scope.

Recommendation

Recommend to the Board of Directors to:

- A. Approve a Professional Design Services Agreement with HDR Engineering, Inc., to provide engineering services for Activated Sludge-1 and Secondary Clarifier Rehabilitation, Project No. P1-140, for an amount not to exceed \$18,462,433; and
- B. Approve a contingency of \$1,846,244 (10%).

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Questions