

TPAD Digester Facility at Plant No. 2

Project No. P2-128

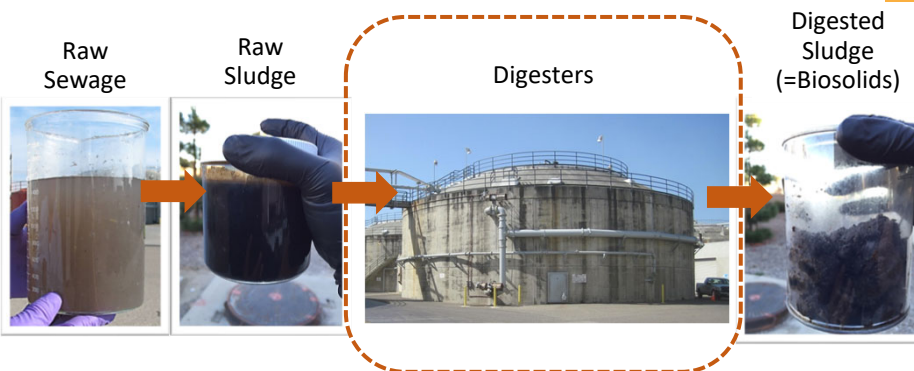
Presented by:
Jeff Mohr
Engineering
Manager

Operations
Committee
April 6, 2022



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Solids Treatment



Anaerobic Digestion is the Core of Solids Treatment

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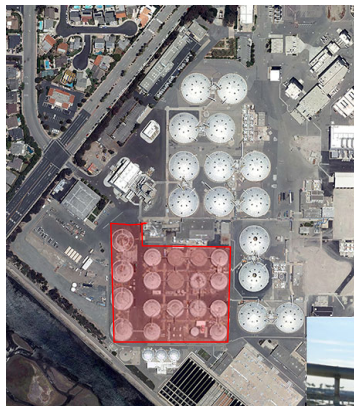
Anaerobic Digestion



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Status of Digesters



- 18 Digesters
- 40-60 years old
- Generally poor condition
- Seismic deficiencies can not be cost effectively addressed



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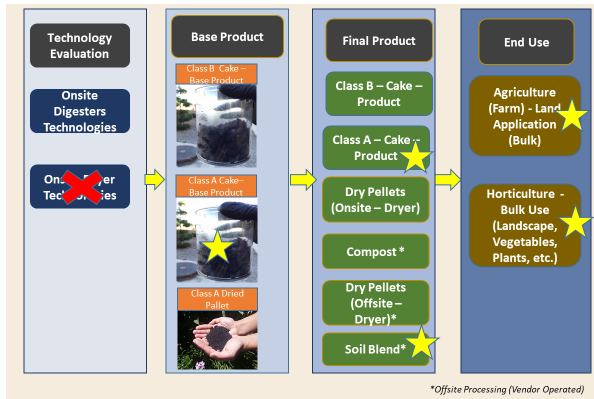
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Biosolids Master Plan (2017)



26 End-to-End Alternatives Considered

- Treatment Facilities
- Biosolids Product Options
- Reuse Markets



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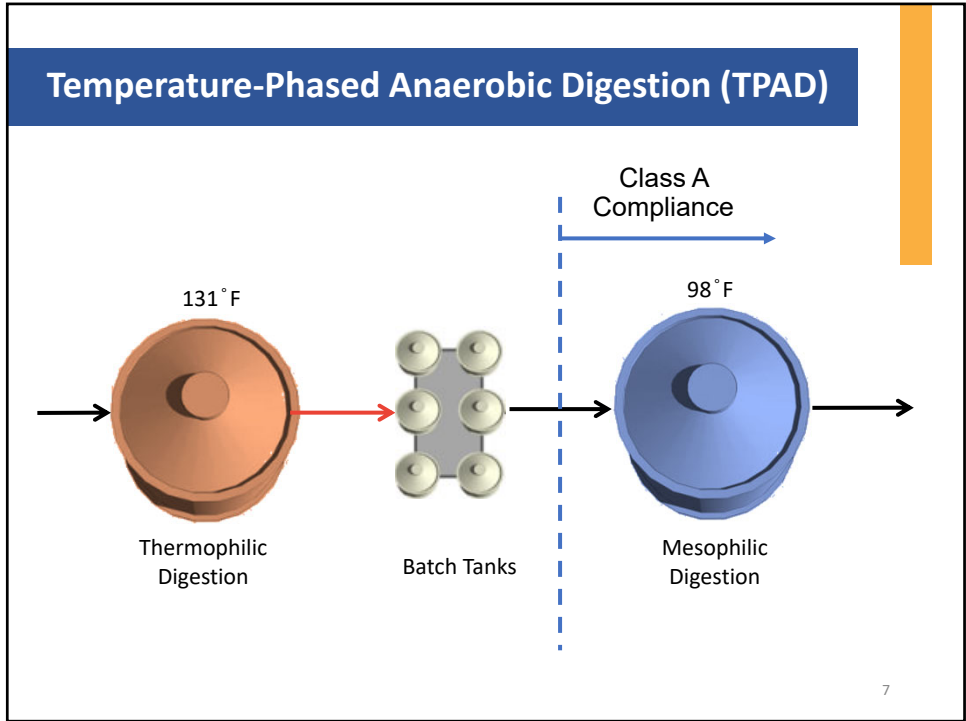
Master Plan Recommendations



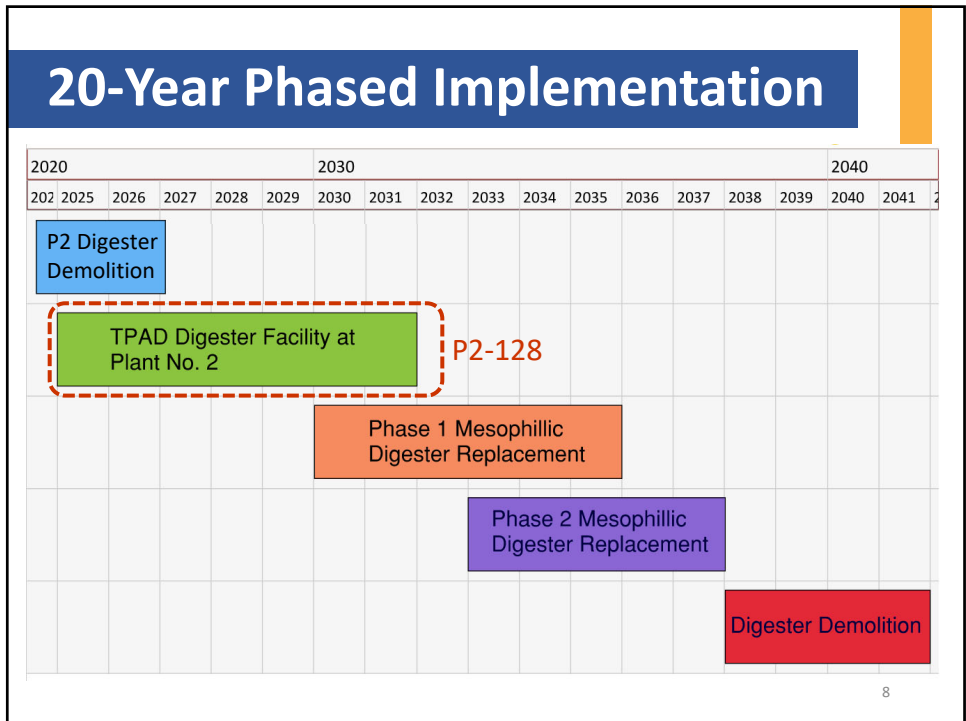
- Produce Class A Biosolids
 - Food crop application (California, Arizona)
 - Landscaping amendments
 - Feed to compost
- Use Temperature-Phase Anaerobic Digestion (TPAD)
- Sequential projects to replace entire digester complex
- Programmatic EIR completed

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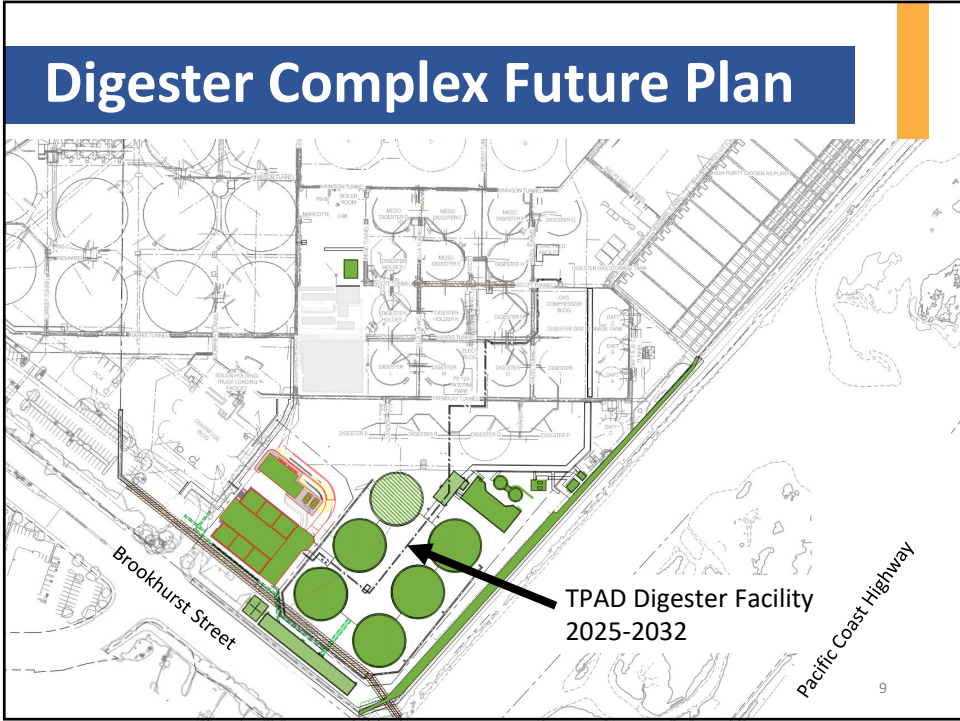
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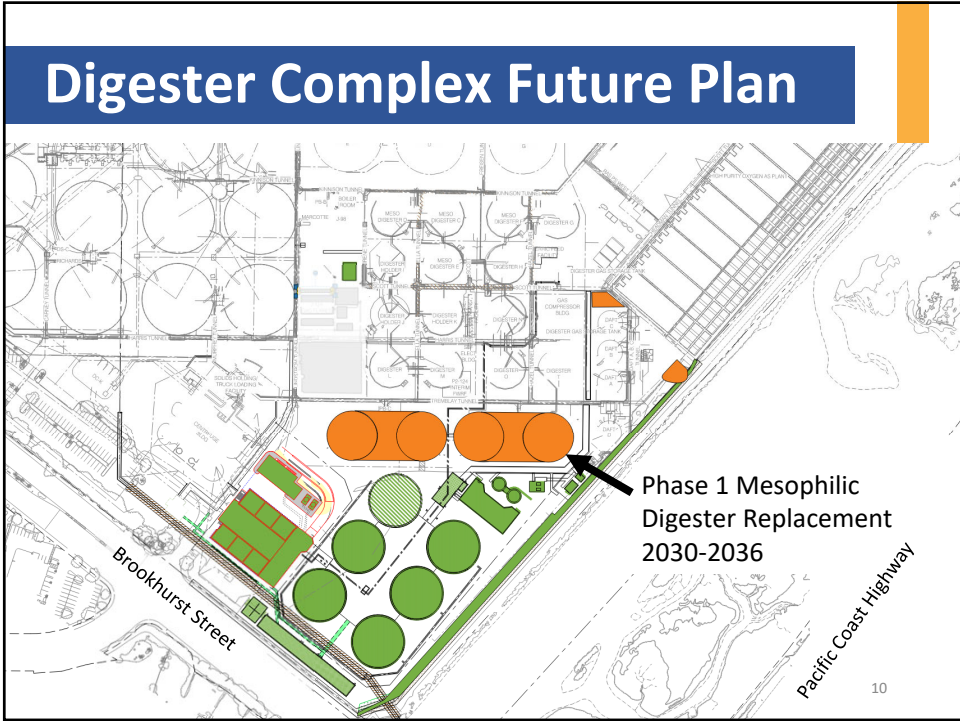
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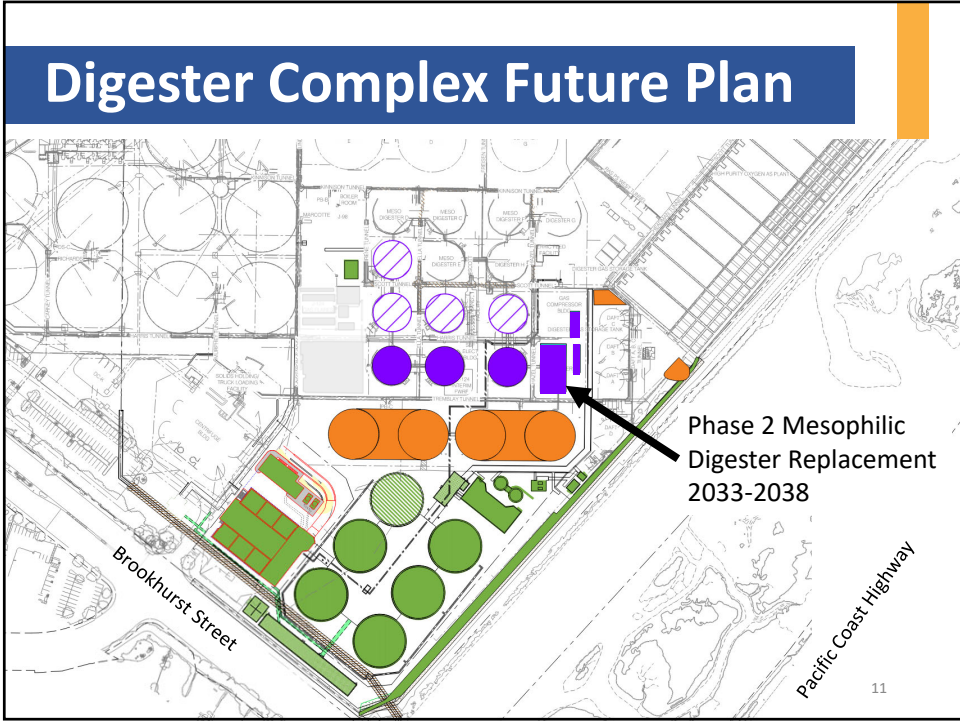
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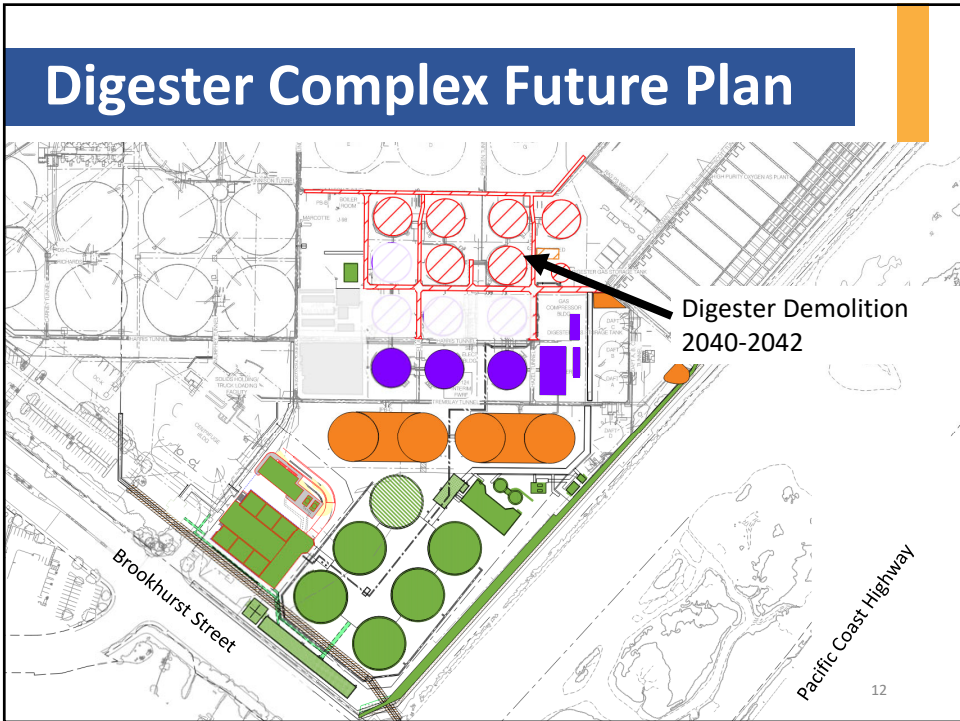
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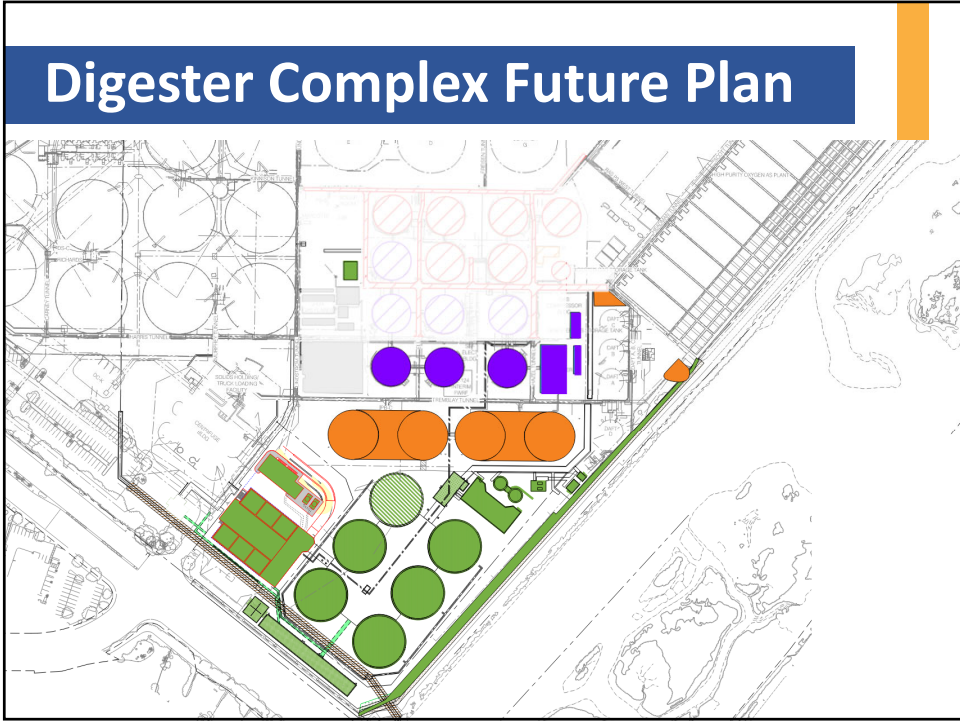
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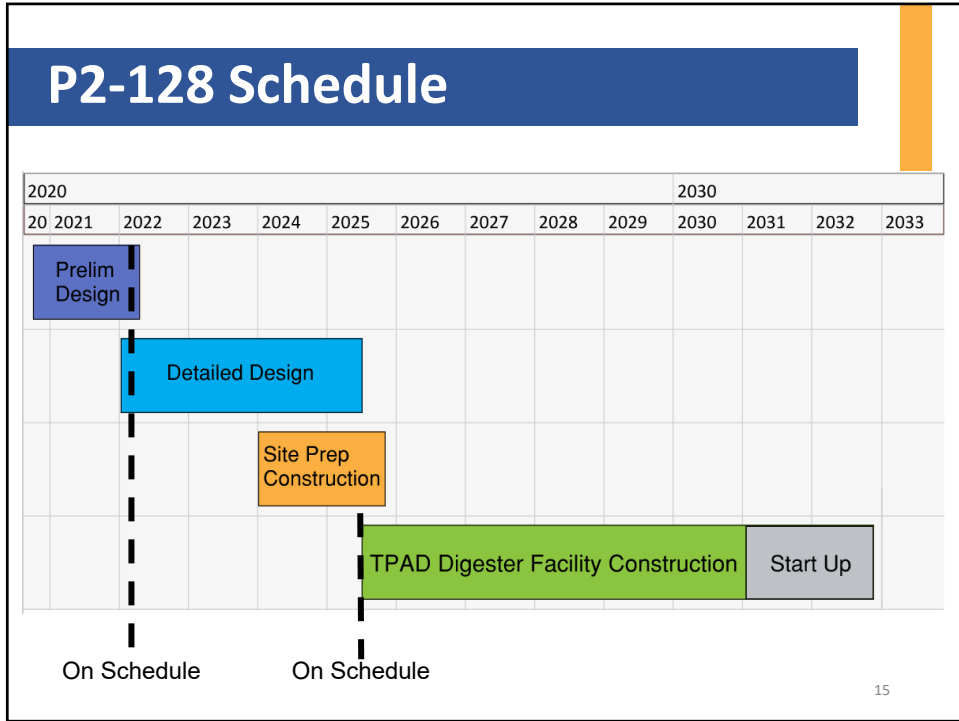
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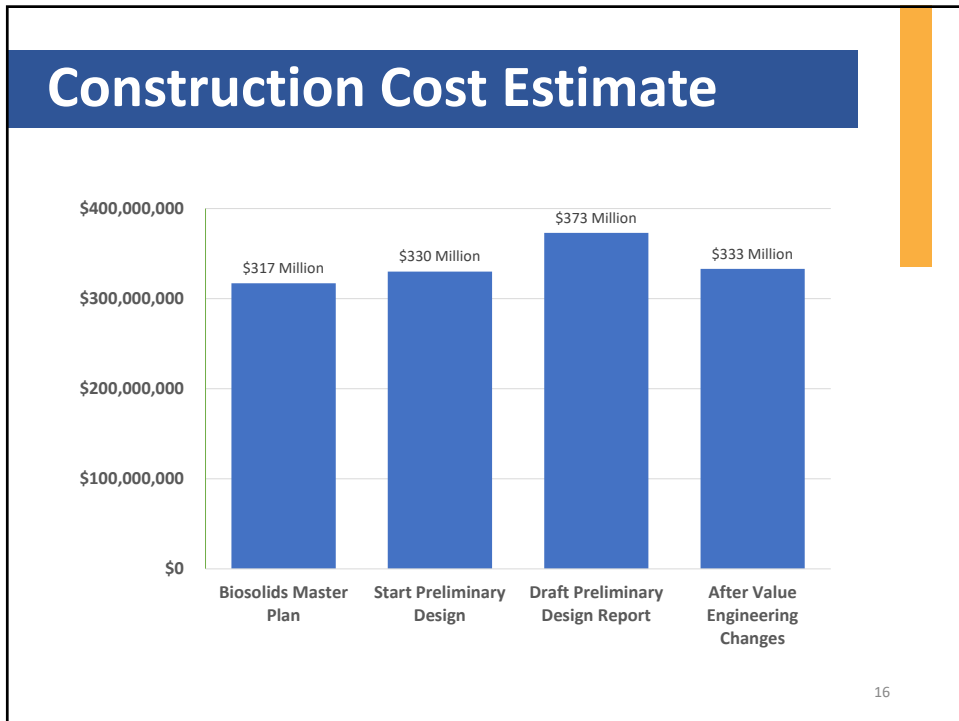
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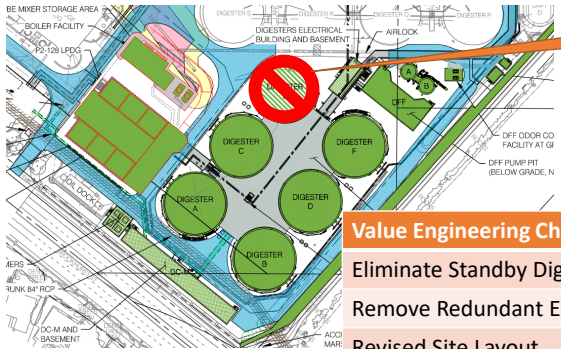


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Key Value Engineering Savings



Value Engineering Change	Savings
Eliminate Standby Digester	\$18 Million
Remove Redundant Equipment	\$7.6 Million
Revised Site Layout	\$3.2 Million
Early Ground Improvement	\$3 Million
Direct Bury Piping	\$3 Million
Other	\$5.2 Million
Total	\$40 Million

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Budget Status

Current Budget	\$455 Million
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Proposed Budget*	\$475 Million
Construction Cost	\$16 Million
Non-Construction Costs	\$ 4 Million

* To be requested as part of the FY22-23 and 23-24 Budget.

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Questions



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