

Wastewater Treatment Plant Master Plan

Consultant Task Order

NapaSan Board of Directors Meeting

July 15, 2020

NapaSan Board of Directors Meeting

Background

- ► The 2011 Master Plan had many recommendations that were successfully implemented:
 - ► IPS Expansion
 - Headworks Equipment Replacement
 - Aeration Basin Diffuser Replacement
 - Pond Aerators
 - Pond Transfer Structures Replacement
 - Phase 1 Recycled Water Expansion
 - Recycled Water Reservoir Liners and N/S Split

July 15, 2020



Napa Sanitation District

Wastewater Treatment Plant Master Plan April 2011



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IPS Expansion







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Headworks Equipment Replacement



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Aeration Basin Diffuser Replacement





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Pond Transfer Structures Replacement







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Phase 1 RW Expansion







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RW Reservoir Liners and N/S Split







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Need for a new Master Plan

Flow and loading projections have changed

- Establish different planning assumptions and trigger points for expansion projects
- New technologies and evolving regulations
 - Recommended alternatives may be different
- Condition assessment to establish a prioritized CIP
- Industry practice is to update the master plan every 7-10 years.



Primary Goals of the Master Plan

Facility Condition Assessment

Provide updated flow and loading projections; evaluate trigger points for capacity upgrades

Create a 10-Year CIP based on the condition assessment results and the need for capacity upgrades



Additional Goals of the Master Plan

- Renewable Energy Production & Energy Management
- Nutrient Management
- Biosolids Management
- Operational Vulnerabilities
- Recycled Water and Potable Reuse
- Capacity Analysis
- Evaluation of Alternatives
- Contaminants of emerging concern (CECs)



Consultant Selection

- Staff sent a formal Request For Proposals to 14 consultants, including local firms
- Staff received 3 proposals and interviewed all 3 teams
- Hazen and Sawyer (with Carollo as a subconsultant) was selected as the most qualified team



Budget

- ► Total budget: \$1,865,200
- ► Hazen and Sawyer Task Order: \$1,513,605



Anticipated Schedule

- ► Notice to Proceed: July 2020
- Board Intro/Kick-Off: September 2020
- Board Update: January 2021
- Board Update: June 2021
- Board Update: October 2021
- Approve Master Plan: December 2021



Update – Presentations/ Workshops

Staff Recommendation

Authorize the Purchasing Agent to execute Task Order 9 with Hazen and Sawyer to prepare a Wastewater Treatment Plant Master Plan (CIP 20706) in the amount of \$1,513,605.

