




**AGENDA
BILL
Item 7.C**

**Sudden Valley Water Treatment
Plant Master Plan—
Stakeholder Engagement Process**

DATE SUBMITTED:	May 19, 2021	MEETING DATE:	May 26, 2021
TO: BOARD OF COMMISSIONERS	FROM: Bill Hunter, Assist. GM/District Engineer		
GENERAL MANAGER APPROVAL			
ATTACHED DOCUMENTS	1. Stakeholder Engagement Plan Diagrams		
TYPE OF ACTION REQUESTED	RESOLUTION <input type="checkbox"/>	FORMAL ACTION/ MOTION <input type="checkbox"/>	INFORMATIONAL /OTHER <input checked="" type="checkbox"/>

BACKGROUND / EXPLANATION OF IMPACT

In July 2020, Gray & Osborne (G&O) completed a condition assessment in which engineers evaluated the SVWTP from a process, structural/architectural, mechanical, and electrical perspective. The assessment identified both high and low priority items that should be completed to maintain current and reliable function of the SVWTP into the future.

Following the condition assessment, G&O was contracted to perform an alternatives analysis to help the District select and prioritize specific short- and long-term improvements to the treatment equipment and processes currently in use. The work has been broken down by major systems. For each system, G&O developed alternatives and documented each in the form of a technical memorandum. The results from each system analysis were presented to the Board at regularly scheduled board meetings.

Over the last 8-months of technical memo presentations by G&O, six (6) long-term goals and objectives were introduced for consideration and discussion. Staff continues to invite the Board and interested public to consider these goals, edit/refine them, and suggest additional ones. As the District begins evaluating the numerous combinations of subsystem alternatives of a whole solution, these goals list will help highlight the best ones. In no particular priority the key long-term goals and objectives to date are:

- G1 - Maintain exceptional water quality performance record
- G2 - Accommodate immediate need for additional space and separation of chemicals/electrical equipment
- G3 - Provide adequate equipment and process redundancy
- G4 - Improve access and flexibility for equipment repair/rehabilitation and/or future expansion
- G5 - Provide capacity for full buildout flow (1,400 gpm)
- G6 - Provide treatment equipment for 30-50 year time period

As the District begins the process of selecting alternatives and developing the 20-year capital improvement plan, input from stakeholders is a critical component of the process.

Attached are two diagrams that staff will review with the Board at the meeting that highlight stakeholder input. The first diagram is a big picture look at the decades-long process. One very important fact to keep in mind is projects identified in the capital improvement plan are CONCEPTUAL. They are conceptual ideas with cost estimates and target year(s) to execute. Details such as layout and appearance still need to be worked out as the specific project begins. As each project (or package of projects) begins, it will go through a Preliminary Design and Design Development process that are intended to involve key stakeholders to further define project requirements and start answering numerous unknowns.

The second diagram summarizes the plan to complete the Alternatives Analyses scope of work with G&O. The concept is to provide a “Baseline Configuration” from which to compare each of the alternatives. As stakeholder inputs are collected and evaluated decisions can be made to adjust the “Baseline Configuration” one way or the other. It provides a reference point from which to discuss the pros and cons of moving to another alternative.

FISCAL IMPACT

None.

APPLICABLE EFFECTIVE UTILITY MANAGEMENT ATTRIBUTE(S)

Product Quality
Operational Optimization
Infrastructure Strategy and Performance
Water Resource Sustainability

RECOMMENDED BOARD ACTION

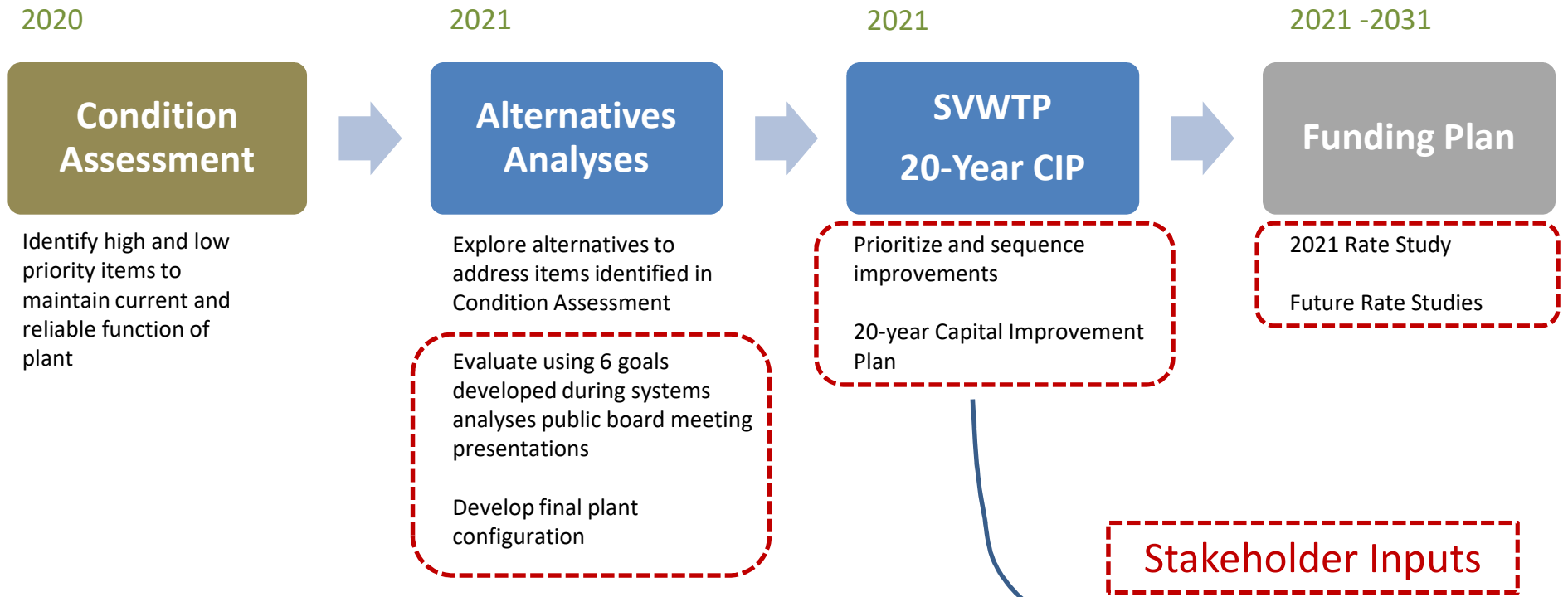
No action is recommended at this time.

PROPOSED MOTION

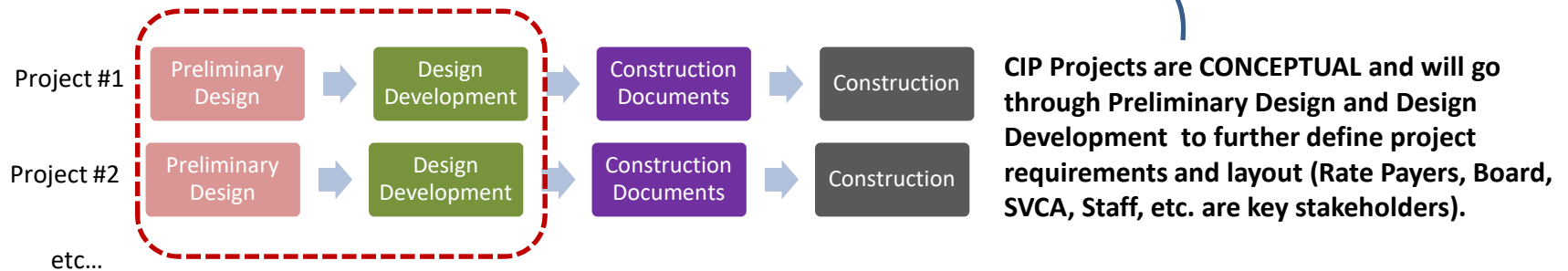
Not applicable.

Sudden Valley Water Treatment Plant Stakeholder Engagement Plan

20-Year Capital Improvement Planning



Process of Individual CIP Projects



Sudden Valley Water Treatment Plant Stakeholder Engagement Plan

Alternatives Analysis and 20-Year CIP



Public Board Meeting Presentations

- Pump Performance
- Chemical Systems
- Disinfection Systems
- Backwash Systems
- Filtration System
- Tier 2/3 Seismic and Structural
- Structural/Architectural Workspace
- NACE III Coating Inspection

G&O and Engineering Department develop baseline configuration

Measure against 6 goals identified during System Analyses presentations

Meeting #1
Present Baseline Configuration

Review alternatives for each system

Meeting #2
Review/collect staff comments and questions

Adjust Baseline Configuration

Meeting #1
Present Staff's recommended Baseline Configuration

Review alternatives for each system

Meeting #2
Review/collect Board and public comments and questions

Finalize Baseline Configuration

Completion of Remaining Scope of Work Items by G&O

