



STEVENSON

Wastewater Treatment Plant  
**IMPROVEMENTS PROJECT**

Staff Presentation to City Council  
October 17, 2019

# PRESENTATION OUTLINE



Background

Project Schedule

Immediate Improvements

Preliminary Design

Implementation Plan

Next Steps



# BACKGROUND

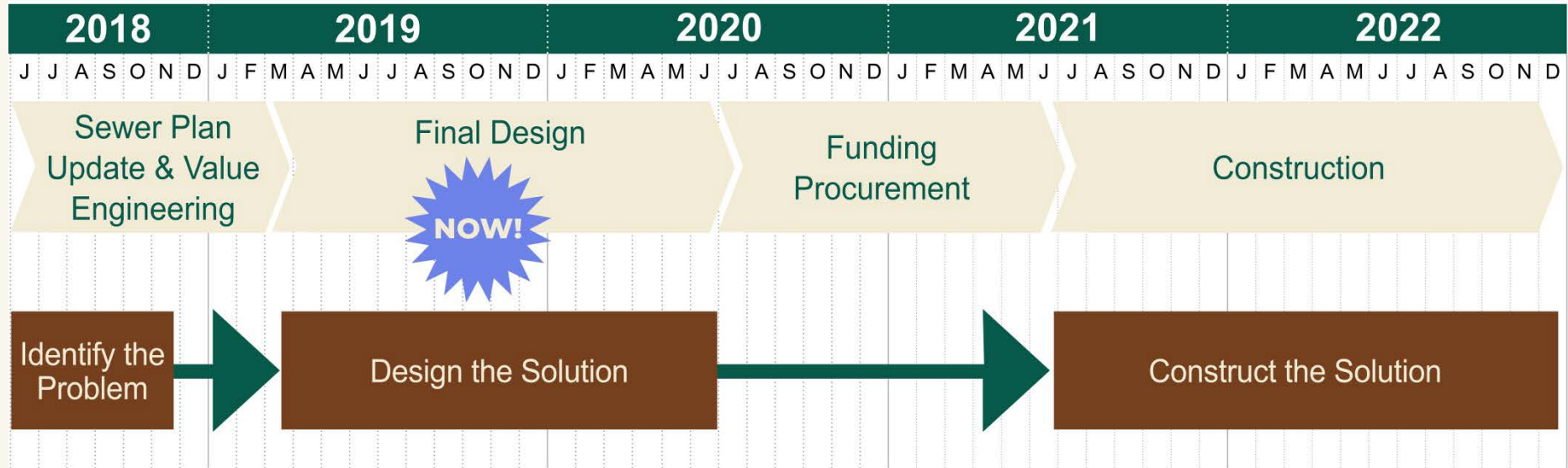
City's wastewater treatment plant (WWTP) is in need of upgrades to provide current and future capacity

The General Sewer Plan/Facility Plan Update identified ~\$16 Million in improvements

City's consultant is currently designing the first phase of these upgrades



# PROJECT SCHEDULE



# IMMEDIATE IMPROVEMENTS



WWTP has had multiple permit violations

More were expected - full improvements won't be complete until December 2022

Immediate upgrades fast-tracked to reduce permit violations in the interim

Immediate upgrades will be constructed by the end of the year



# PRELIMINARY DESIGN

Pre-design report complete, submitted to Department of Ecology by October 31<sup>st</sup>.



Pre-design report includes:

Technical memos and Prelim drawings

Basis for design of Phase 1

Cost estimate for Phase 1

Implementation plan for Phase 1 and future improvements



# DESIGN OF PHASE 1

Per the Facility Plan:

\$10.9 Million to design and build Phase 1

Cost saving measures to reduce cost and delay :

Remodel the existing lab building instead of a new building

Delay construction of the sludge thickening building

Delay construction of the second UV channel

The current design:

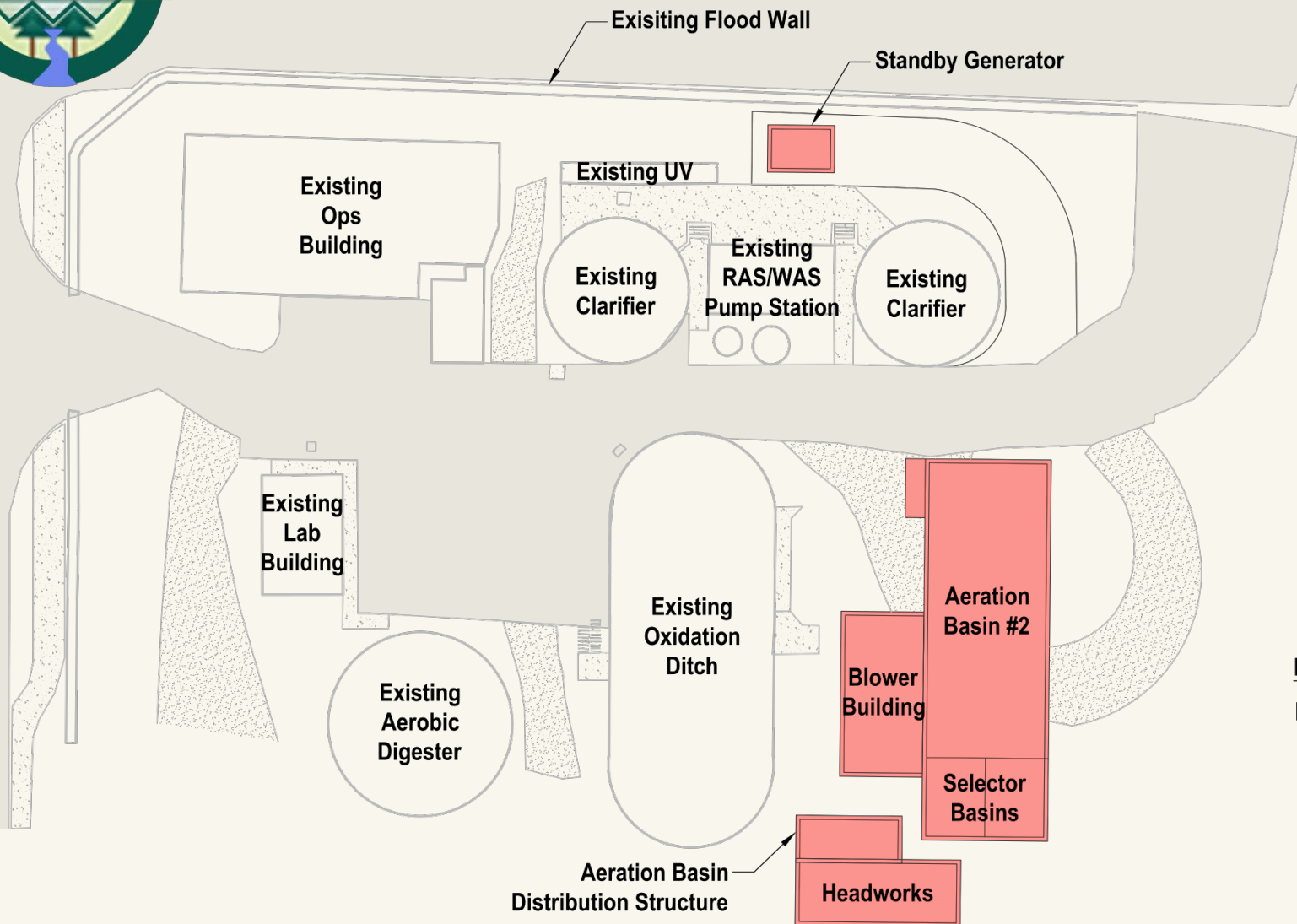
\$8.2 Million to design and build Phase 1



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# SITE LAYOUT – PHASE 1

SW Rock Creek Dr



**Legend**  
Phase 1





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# SITE LAYOUT – PHASE 2

SW Rock Creek Dr



- Legend**
- Phase 1
  - Phase 2



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# SITE LAYOUT – PHASE 3

Flood Wall Relocation

Effluent Pump Station

Standby Generator

UV Disinfection  
Existing UV

Existing  
Ops  
Building

Existing  
Clarifier

Existing  
RAS/WAS  
Pump Station

Existing  
Clarifier

Clarifier #3

SW Rock Creek Dr

Existing  
Lab  
Building

Existing  
Aerobic  
Digester

Existing  
Oxidation  
Ditch

Blower  
Building

Aeration  
Basin #2

Selector  
Basins

Aeration Basin  
Distribution Structure

Headworks

### Legend

- Phase 1
- Phase 2
- Phase 3



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# SITE LAYOUT – FUTURE

SW Rock Creek Dr

Flood Wall Relocation

Effluent Pump Station  
Standby Generator

UV Disinfection  
Existing UV

Clarifier #4

Existing Clarifier

Existing RAS/WAS Pump Station

Existing Clarifier

Lab & Ops Building

Clarifier #3

Solids Processing

Aerobic Digester

Aerobic Digester

Existing Oxidation Ditch

Aeration Basin #2

Aeration Basin #3

Aeration Basin #4

Blower Building

Selector Basins

Aeration Basin Distribution Structure

Headworks

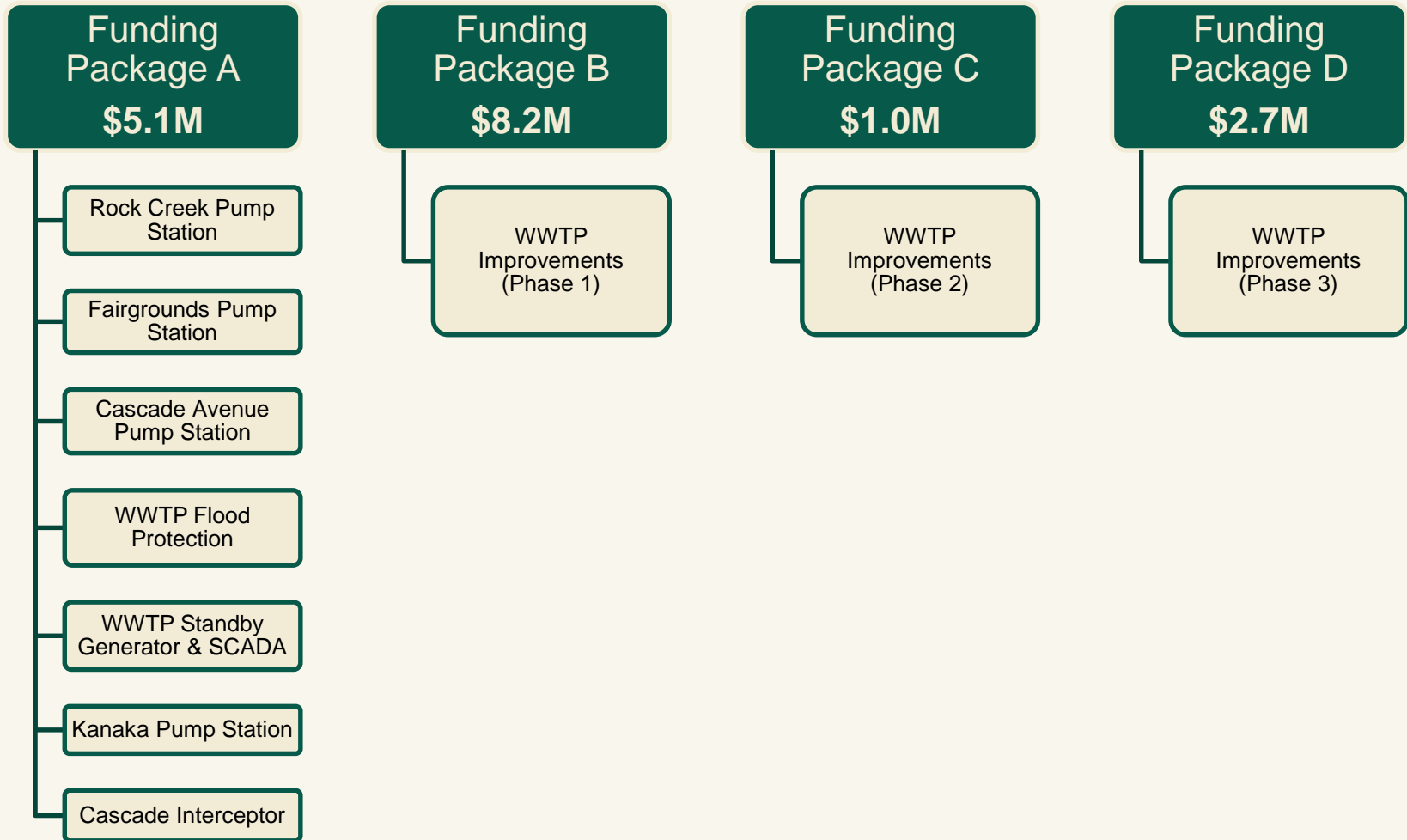
### Legend

- Phase 1
- Phase 2
- Phase 3
- Phase 4



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# IMPLEMENTATION PLAN



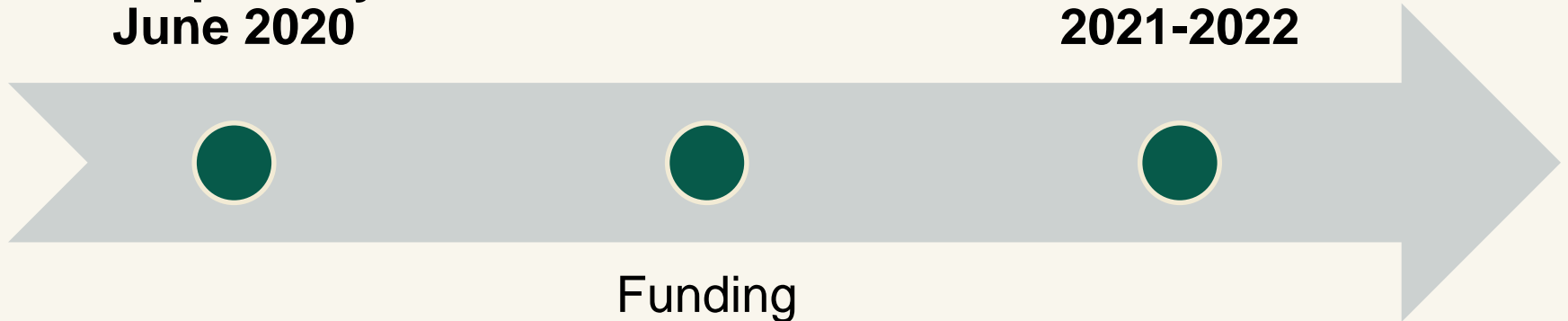


# NEXT STEPS

Final design of  
Phase I  
Improvements  
**complete by  
June 2020**

Construction  
**2021-2022**

Funding  
procurement  
**2020-2021**





# QUESTIONS

