



TOWN OF OLD ORCHARD BEACH
REQUEST FOR QUALIFICATIONS
WASTEWATER ENGINEERING SERVICES

January 27, 2021

Addendum #1

The following questions were received on January 26, 2021. Responses are below and additional information is attached.

- The attached documents to the RFQ are from past Wright-Pierce work through 2019 only. However, Woodard & Curran carried the refinement of the project scope since 2019 leading to the Town warrant for a reduced scope/budget of \$23.5M. In order to be responsive to the RFQ in both establishing our scope of service as well as our cost for such, we request any Woodard & Curran documents establishing the scope of work and cost allocation or at least a summary of the work the Town desires as part of this project.

Additional information from Woodard & Curran Engineering is provided as part of this addendum #1 to include a list of proposed project elements and aerial photographs depicting the priority work elements of the proposed project.

- The Town wishes to receive an opinion of probable engineering services cost in a separate sealed envelope. What are the Town's expectations for this? Is this a single lump sum number for all possible services requested? Would you like a breakdown by service (i.e, Design, Bidding, Construction, Post-Construction, etc.)? How will this be used by the Town in establishing fixed costs for the engineering services or is it just an estimate of engineering based upon the project as currently conceived but that might be adjusted as part of a preliminary design?

The Town's expectations are for the proposer to identify a not to exceed limit of the costs for engineering services identified under Scope of Work on page 2 of the RFQ as a percentage of the total construction project costs.

- Finally, the scoring of consultants assigns 10 points to cost estimating. Is this associated with the opinion of engineering services cost or our effectiveness at estimating capital project costs and minimizing change orders? How will costs provided be treated by the selection committee?

Relative to the selection process, the point value assigned to the cost estimating criteria is associated with the proposer's effectiveness at estimating capital project costs and minimizing

change orders. The point value as stated in the RFQ for cost estimating is assigned a 10 point value.



TOWN OF OLD ORCHARD BEACH, ME
 WASTEWATER TREATMENT FACILITY & PUMP STATION ASSESSMENT
 PROPOSED PROJECT LIST
 APRIL 2020

Project Number	Location	Project Description	Need for Upgrades
CRITICAL PROJECTS			
1.	Main Electrical System	<ul style="list-style-type: none"> ■ Replace electrical feed for WWTF site <ul style="list-style-type: none"> ▶ New electrical service & transformer from CMP ▶ New electrical enclosure or building for main breaker & switchgear ▶ New diesel-powered standby emergency generator for entire WWTF ▶ New electrical distribution system (duct bank) ■ New electrical gear (MCC's & VFDs) to replace all existing electrical gear on site 	<ul style="list-style-type: none"> ■ Electrical System Upgrade ■ Age & Condition ■ O&M ■ Resiliency
2.	Plantwide SCADA System	<ul style="list-style-type: none"> ■ Provide plant wide SCADA system ■ Provide plant wide fiber-optic communications network ■ Provide Main Control Panel in New Administration Building ■ Provide remote I/O panels for Primary Sedimentation Tank Bldg., Process Bldg., CCT/Effluent Structure, & Effluent PS & Halfway PS 	<ul style="list-style-type: none"> ■ O&M ■ Resiliency ■ Permit Compliance ■ Cyber Security
3.	Halfway Pump Station	<ul style="list-style-type: none"> ■ Rehabilitate the existing pump station & expand wet well and dry well area ■ Replace existing pumps with duty standby arrangement ■ Provide beam and access hatch for pump removal ■ Structural repairs as needed ■ Demolish existing control building and construct new building enclosure for Halfway pump station (dry well only), maintenance garage, and new main electrical room 	<ul style="list-style-type: none"> ■ Age & Condition ■ O&M ■ Permit Compliance
4.	Primary Sedimentation Tanks	<ul style="list-style-type: none"> ■ Mechanical: <ul style="list-style-type: none"> ▶ Replace collection equipment & weirs in (All 5) ■ Replace primary sludge & scum pumps 	<ul style="list-style-type: none"> ■ Age & Condition ■ O&M ■ Permit Compliance
5.		<ul style="list-style-type: none"> ■ Structural: <ul style="list-style-type: none"> ▶ Enclosure for exterior stairs to pump gallery ▶ Tank concrete repairs ▶ Remove scaling in influent launder ■ Provide safety grating for access hatches 	<ul style="list-style-type: none"> ■ Age & Condition ■ Preventative Maintenance ■ Safety
6.		<ul style="list-style-type: none"> ■ Electrical: <ul style="list-style-type: none"> ▶ Replace electrical gear (MCC & Lighting Panels) ■ Relocate electrical gear to new enclosure located on top deck of Primary sed tanks (above flood elevation) 	<ul style="list-style-type: none"> ■ Electrical Upgrades ■ Age & Condition ■ Resiliency
7.		<ul style="list-style-type: none"> ■ Controls: <ul style="list-style-type: none"> ▶ Provide controls means to allow for any PS pump to pump from any sedimentation tank 	<ul style="list-style-type: none"> ■ Process Control
8.	Aeration Tanks	<ul style="list-style-type: none"> ■ Mechanical: <ul style="list-style-type: none"> ▶ Replace existing fine bubble aeration diffusers ▶ Nitrogen management system <ul style="list-style-type: none"> - New anoxic selector tanks with mixers in the existing Aeration Tanks (original) - New recycle pumps from ATs to anoxic tanks ▶ New foam mitigation system/froth spray system ■ New slide gate in effluent launder 	<ul style="list-style-type: none"> ■ Age & Condition ■ O&M ■ Permit Compliance ■ Capacity Limitations ■ Process Control ■ Treatment Performance



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CRITICAL PROJECTS			
9.	Secondary Clarifiers	<ul style="list-style-type: none"> ■ Secondary Clarifier #1 <ul style="list-style-type: none"> ▶ Provide density current baffles ▶ Provide dome cover 	<ul style="list-style-type: none"> ■ Age & Condition ■ O&M ■ Permit Compliance ■ Treatment Performance
10.	Chlorine Contact Tank	<ul style="list-style-type: none"> ■ Reconfigure CCT to serpentine baffle arrangement ■ Replace mud valves, knife gate valves, gate operators ■ Concrete repairs as needed ■ Scum Baffles 	<ul style="list-style-type: none"> ■ Age & Condition ■ O&M ■ Permit Compliance ■ Treatment Performance
11.	Chlorine Feed System	<ul style="list-style-type: none"> ■ Relocate chemical feed system to be adjacent to CCT ■ New insulated & heated double walled sodium hypo storage tanks ■ Relocate existing chemical metering pumps ■ New transfer pump to pump to existing day tank in Process Bldg. ■ New enclosure (small building) for electrical gear, controls equipment, and chemical pumps 	<ul style="list-style-type: none"> ■ Age & Condition ■ O&M ■ Permit Compliance ■ Process Control
12.	RAS/WAS Pumping	<ul style="list-style-type: none"> ■ Provide SCADA control to allow RAS/WAS pumps to be flow paced off influent or effluent flowrate 	<ul style="list-style-type: none"> ■ Process Control ■ O&M ■ Treatment Performance
13.	Sludge Processing Equipment	<ul style="list-style-type: none"> ■ Provide 2nd Huber Q800 screw press & polymer feed system ■ New sludge conveyors w/ covers ■ Provide new sludge garage sized for sludge can ■ Provide odor control system for sludge garage & sludge conveyors & each screw press 	<ul style="list-style-type: none"> ■ O&M ■ Permit Compliance ■ Process Control ■ Resiliency ■ Odor Control ■ Safety ■ Protection of Building & Equipment
14.	Process Building	<ul style="list-style-type: none"> ■ Structural: <ul style="list-style-type: none"> ▶ Exterior/1st floor: <ul style="list-style-type: none"> - Exterior repairs (siding, roofing, etc.) - Roof flashing at parapet walls - New rollup door - Replace or repaint doors & frames - Replace concrete stair treads - Repaint & Seal exterior CMU - Modify existing sludge can area into loading dock - Relocate stairs on east side to current bathroom location ▶ Blower Room: <ul style="list-style-type: none"> - Repair crack in floor ▶ Pump Gallery <ul style="list-style-type: none"> - Repair basement floor slab – void area ■ Repaint columns 	<ul style="list-style-type: none"> ■ Age & Condition ■ O&M ■ Safety ■ Building Preventative Maintenance



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CRITICAL PROJECTS			
15.		<ul style="list-style-type: none"> ■ HVAC: <ul style="list-style-type: none"> ▶ Provide energy recover ventilator (ERV) for pump gallery & dewatering area ▶ Provide AC unit for blower room 	<ul style="list-style-type: none"> ■ HVAC/Cooling Equipment Upgrades ■ Building & Equipment Preventative Maintenance
16.		<ul style="list-style-type: none"> ■ Plumbing: <ul style="list-style-type: none"> ▶ Provide city water connection for polymer feed system ▶ Provide hot water heater 	<ul style="list-style-type: none"> ■ O&M ■ Process Reliability
17.	Plant Water System	<ul style="list-style-type: none"> ■ Replace underground piping and yard hydrants 	<ul style="list-style-type: none"> ■ O&M ■ Process Reliability
18.		<ul style="list-style-type: none"> ■ Provide new plant water pump system 	<ul style="list-style-type: none"> ■ Age & Condition ■ O&M
19.	Effluent Pump Station	<ul style="list-style-type: none"> ■ Replace/rebuild pumps <ul style="list-style-type: none"> ▶ Replace 150 HP pumps ▶ Replace 14 HP pumps ■ Evaluate intermediate pump (between 14 & 150 HP) 	<ul style="list-style-type: none"> ■ Age & Condition ■ O&M ■ Process Control
20.	WWTF Site Work	<ul style="list-style-type: none"> ■ Motor Operated Vehicle Gate (Cover to be provided in closed position) 	<ul style="list-style-type: none"> ■ Site Improvements ■ Security
21.	Comfort Pump Station	<ul style="list-style-type: none"> ■ Additional Wet Well Access ■ New Flow Meter ■ Control System Upgrades ■ New Generator (Reuse of Halfway PS Generator) 	<ul style="list-style-type: none"> ■ O&M ■ Age & Condition ■ Permit Compliance
22.	Ross Road Pump Station	<ul style="list-style-type: none"> ■ Complete Pump Station Upgrade to Suction Lift Station ■ Upgrade electrical feed to site ■ Dedicated Generator 	<ul style="list-style-type: none"> ■ O&M ■ Age & Condition ■ Capacity Limitations
23.	Portland Avenue Pump Station	<ul style="list-style-type: none"> ■ Complete Pump Station Upgrade ■ Upgrade electrical feed to site ■ Dedicated Generator ■ Remove Stormwater Flow from Development 	<ul style="list-style-type: none"> ■ O&M ■ Age & Condition ■ Capacity Limitations ■ Permit Compliance
24.	Milliken Street Pump Station	<ul style="list-style-type: none"> ■ Complete Pump Station Upgrade to Suction Lift Station ■ Dedicated Generator 	<ul style="list-style-type: none"> ■ O&M ■ Age & Condition ■ Capacity Limitations ■ Permit Compliance

CRITICAL PROJECTS OPINION OF PROBABLE COST ESTIMATE TOTAL = \$23,500,000

Legend:
▶ **Critical Project**
▶ **Short-term Project**

Maintenance Garage:
▶ Provide Unisex Bathroom
▶ HVAC/Plumbing Upgrades

Primary Sedimentation Tanks:
▶ Mechanical/Equipment Repairs & Upgrades
▶ Electrical Repairs & Upgrades Including Relocating Electrical Gear to Upper Level
▶ SCADA/Controls Upgrade
▶ Architectural & Structural Repairs & Upgrades Including Enclosing Exterior Stair to Pump Gallery
▶ Plumbing & HVAC Repairs & Upgrades

Site Work:
▶ Automatic Security Entrance Gate
▶ Pavement Restoration
▶ Site Fencing Improvements

Aeration Tanks:
▶ Mechanical/Equipment Repairs & Upgrades
▶ Process/Treatment Upgrades Including Retrofitting Existing Aeration (Original) Tanks to Provide a Nitrogen Management System
▶ Structural Repairs & Upgrades

SCADA System
▶ Provide Site Wide SCADA System & Fiber-optic Loop

Disinfecting Feed System:
▶ New Sodium Hypochlorite Storage Tanks & Feed Building
▶ New Chemical Metering Pumps
▶ Provide Multiple Chemical Dosing Points

Yard Drain Pump Station:
▶ Mechanical/Equipment Repairs & Upgrades

Secondary Clarifier #1:
▶ Process/Treatment Upgrades Including Providing Dome Cover

Primary Sludge Holding Tank (PSHT):
▶ Mechanical/Equipment Repairs & Upgrades
▶ Process/Treatment Upgrades

Halfway Pump Station/Control Bldg:
▶ Mechanical/Equipment Repairs & Upgrades Including Pump & VFD Replacement
▶ Architectural/Structural Repairs & Upgrades Including Partial Demo of Existing Control Bldg. for New Building Enclosure for Halfway PS, Maintenance Garage, and Main Electrical Room

Secondary Clarifier #2:
▶ Mechanical/Equipment Upgrades

RAS/WAS Pumping:
▶ SCADA/Controls Upgrades

Sludge Processing:
▶ Mechanical/Equipment Upgrades Including 2nd Sludge Press
▶ Process/Treatment Upgrades Including Sludge Garage and Dedicated Odor Control System

Main Electrical System/Site Wide Electrical Upgrades:
▶ New Electrical Service
▶ Site Wide Electrical Upgrades Including New Electrical Gear (MCC's & VFDs)
▶ Site Wide Emergency Generator
▶ Electrical Repair & Upgrades Including Replacement of Lighting Panels

Effluent Flume & Effluent Sampler:
▶ Controls Upgrades
▶ New Sampler

Plant Water System:
▶ Replace Underground Piping & Hydrants
▶ Provide New Plant Water Pumps

Overflow Clarifier:
▶ Demolish for Sludge Garage Access

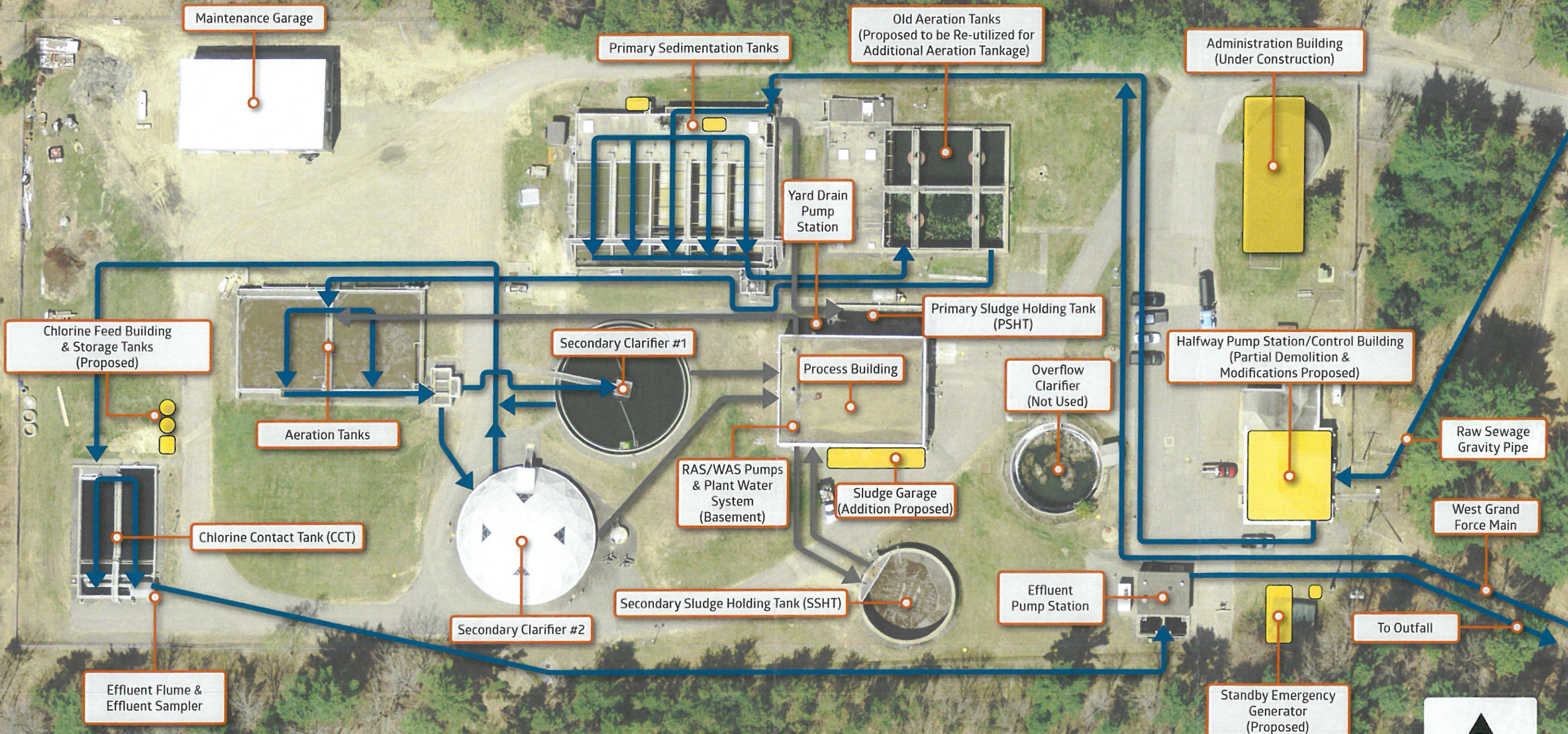
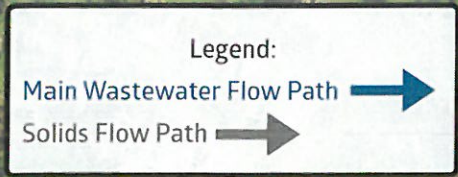
Chlorine Contact Tank (CCT):
▶ Process/Treatment Upgrades Including Reconfiguring Tank to Provide Additional Disinfection Time
▶ Mechanical/Equipment Repairs & Upgrades
▶ Structural Repairs

Process Building:
▶ Architectural/Structural Repairs & Upgrades to Exterior and Interior of Building
▶ Plumbing & HVAC Upgrades
▶ Electrical Repairs & Upgrades Including Relocating Electrical Gear to Upper Level

Secondary Sludge Holding Tank (SSHT):
▶ Mechanical/Equipment Repairs & Upgrades
▶ Process/Treatment Upgrades

Effluent Pump Station:
▶ Mechanical/Equipment Repairs & Upgrades Including Pump & VFD Replacement
▶ Process/Treatment Upgrades





Legend:
▶ Critical Project
▶ Short-term Project

Dunegrass 200 Pump Station:
▶ Purchase Property
▶ Standby Emergency Generator

Dunegrass 100 Pump Station:
▶ Mechanical/Equipment Repairs
▶ Standby Emergency Generator

Ross Road Pump Station:
▶ Complete Pump Station Replacement

Wastewater Treatment Facility

Portland Avenue Pump Station:
▶ Complete Pump Station Replacement

Milliken Street Pump Station:
▶ Complete Pump Station Replacement

East Grand Pump Station:
▶ Mechanical/Equipment Repairs
▶ Standby Emergency Generator

West Grand Pump Station:
▶ HVAC Upgrades

Comfort Pump Station:
▶ Process/Treatment Upgrades
▶ SCADA/Control Upgrades
▶ Replace Standby Emergency Generator

