

ENGLEWOOD WATER DISTRICT Capital Improvement Program

| Project ID | Name | Description / Notes | Cap / R&R | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 | 5 YR Projection |
|------------|--|---|-----------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|
| | RO Pipe WTP | Replace FRP Waterlines at RO Facility | R&R | | | \$ 100,000.00 | | | | \$ 100,000.00 |
| | RO Membranes E & F | Replace RO membranes in skids E and F | R&R | \$ 100,000.00 | | | | | | \$ - |
| | RO Skid | Install new RO Skids in the Expanded RO Addition | Cap | | | | | | | \$ - |
| RO-04 | Electrical Diagram RO | Electrical line diagram for RO WTP | R&R | | | \$ 35,000.00 | | | | \$ 35,000.00 |
| RO-05 | Power Load Analysis RO | Power Load and Arc Flash Study for RO WTP | R&R | | | | \$ 75,000.00 | | | \$ 75,000.00 |
| LP11, LP14 | RO-07 New MCC at RO | New Power Distribution Center and MCC for RO WTP | R&R | | | | | \$ 280,000.00 | | \$ 280,000.00 |
| | RO-11 Degassifier #2 | Add second degas tower behind RO WTP | Cap | | | \$ 205,000.00 | | | | \$ 205,000.00 |
| | RO-18 SCADA | Replace SCADA and upgrade PLCs for RO WTP | R&R | | \$ 120,000.00 | | | | | \$ 120,000.00 |
| | LP-01 Raw Water Diffuser Trays | Replace Diffuser Tank Trays for Lime WTP | R&R | | \$ 95,000.00 | | | | | \$ 95,000.00 |
| | LP-02 Raw Water Diffuser Coating | Seal inside of Raw Water Diffuser Tank for WTP | R&R | | | \$ 35,000.00 | | | | \$ 35,000.00 |
| | LP-03 Plant #3 Rehab | Rebuild Rapid Mixer and Clarifier for Lime WTP | R&R | \$ 270,000.00 | | | | | | \$ - |
| | LP-04 Plant #2 Rehab | Rebuild Rapid Mixer and Clarifier for Lime WTP | R&R | | \$ 295,000.00 | | | | | \$ 295,000.00 |
| | LP-08 Electrical Diagram Lime WTP | Electrical line diagram for Lime WTP | R&R | | | \$ 25,000.00 | | | | \$ 25,000.00 |
| | LP-09 Power Load Analysis Lime WTP | Power Load and Arc Flash Study for Lime WTP | R&R | | | | \$ 60,000.00 | | | \$ 60,000.00 |
| RO07, LP14 | LP-11 New MCC at Lime WTP | New Power Distribution Center and MCC for Lime WTP | R&R | | | | | \$ 177,000.00 | | \$ 177,000.00 |
| RO07, LP11 | LP-14 2 New HS Pumps w/ VFD | Replace 2 High Service Pumps at WTP with VFDs | R&R | | | | \$ 90,000.00 | | | \$ 90,000.00 |
| | LP-17 Facility Plan for Lime WTP | Evaluate Life Cycle Cost Vs Replacement of Lime WTP | R&R | | | | | \$ - | | \$ - |
| | LP-20 SCADA for Lime WTP | Replace SCADA and upgrade PLCs for Lime WTP | R&R | | | \$ 82,000.00 | | | | \$ 82,000.00 |
| | WL-01 RO Wellfield Telemetry | Replace Telemetry for RO WTP Water Supply Wellfield | R&R | | \$ 75,000.00 | | | | | \$ 75,000.00 |
| | RO Membranes B and C | Replace RO membranes in skids B and C | R&R | | | \$ 100,000.00 | | | | \$ 100,000.00 |
| | RO Membranes D | Replace RO membranes in skids D | R&R | | | | \$ 55,000.00 | | | \$ 55,000.00 |
| | Clean Lime Beds | Remove spent lime from Lime Beds | R&R | | \$ 50,000.00 | \$ 50,000.00 | \$ 50,000.00 | \$ 50,000.00 | \$ 50,000.00 | \$ 250,000.00 |
| | Replace WTP #3 Filter Media | Remove and Replace Sand Filter Media and Drains | R&R | | \$ 80,000.00 | \$ - | \$ - | \$ - | \$ - | \$ 80,000.00 |
| | RO-06 Genset at RO | Upgrade RO WTP Generator to Full Stand-by Power Capacity | Cap / R&R | | | | | | \$ - | \$ - |
| | RO-10 Replace Degassifier #1 | Replace the original Degassifier at the R/O WTP | R&R | | | | \$ 265,000.00 | | | \$ 265,000.00 |
| | LP-05 Plant #1 Rehab | Rebuild Rapid Mixer and Clarifier for Lime WTP | R&R | | | | | | \$ 325,000.00 | \$ 325,000.00 |
| | LP-10 Genset at HSP and Lime WTP | Upgrade Lime WTP and High Service Pump Generator to Full Stand- | Cap / R&R | | | | | | | \$ - |
| | LP-12 Replace HSP Burried Pipeline | Replace Pipes under HSP Building to Elevated Water Tank | R&R | | | | | | | \$ - |
| | LP-13 Replace HSPs | Replace Old HSP Motors and Pumps | R&R | | | | | | | \$ - |
| | WL-02 LP Wellfield Telemetry | Replace Telemetry for Lime WTP Water Supply Wellfields 1-3-5 | R&R | | | | | | | \$ - |
| | WL-04 Rehab Wellfield #1 | Evaluate, Repair or Replace WF #1 Wells | R&R | | | | | | | \$ - |
| | TOTAL PRODUCTION | | | \$ 370,000.00 | \$ 715,000.00 | \$ 632,000.00 | \$ 595,000.00 | \$ 507,000.00 | \$ 375,000.00 | \$ 2,824,000.00 |
| | DS-06 Watermain Extension | Extension / Looping of Existing System | R&R | \$ 100,000.00 | \$ 50,000.00 | \$ 50,000.00 | \$ 40,000.00 | \$ 50,000.00 | \$ 50,000.00 | \$ 240,000.00 |
| | DS-06 Remove Bottleneck at Beach Rd | Eliminate Waterline Constriction at Roundabout on Beach Rd | Cap / R&R | | | \$ 315,000.00 | | | | \$ 315,000.00 |
| | DS-07 Redundancy at Forked Creek | Install 2nd Water Main Crossing at Forked Creek. | Cap / R&R | | | | | \$ 230,000.00 | | \$ 230,000.00 |
| | Swepton Bridge Water Line Remo | Remove Waterline and Support Piles on South side of Swepton Bri | R&R | \$ 210,000.00 | \$ 30,000.00 | | | | | \$ 30,000.00 |
| | Replace AC Mains in Grove City | Install PVC Water Mains in Grove City and Decommission old syster | R&R | | | | \$ - | \$ - | \$ - | \$ - |
| | DS-04 Replace AC on Beach Rd CC | Replace AC Water Main on Beach Rd Charlotte County Area | Cap / R&R | | | | | | | \$ - |
| | DS-05 Replace AC on Beach Rd SC | Replace AC Water Main on Beach Rd Sarasota County Area | Cap / R&R | | | | | | | \$ - |
| | DS-08 Main Extension to Villages of MB | Villages of Manasota Beach Water Main by Developer | Cap | | | | | | | \$ - |
| | DS-12 Storage Tank with Treatment Stud | Evaluate Location and Size of Storage Tank with Cl2 | CAP | | | | | | | \$ - |
| | TOTAL DISTRIBUTION | | | \$ 310,000.00 | \$ 80,000.00 | \$ 365,000.00 | \$ 40,000.00 | \$ 280,000.00 | \$ 50,000.00 | \$ 815,000.00 |
| | TOTAL WATER | | | \$ 680,000.00 | \$ 795,000.00 | \$ 997,000.00 | \$ 635,000.00 | \$ 787,000.00 | \$ 425,000.00 | \$ 3,639,000.00 |
| | WRF-06 Blower Upgrade WRF Ph1 | Replace Blowers with efficient and quiet blowers at WRF Phase 1 | R&R | | | | \$ 385,000.00 | | | \$ 385,000.00 |
| | WRF-13 Electrical Diagram WRF | Electrical line diagram for WRF and Label Wire Terminations | R&R | | | \$ 35,000.00 | | | | \$ 35,000.00 |

Capital Improvement Program

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|-------------------------------|---------------------------------|---|-----------|---------------|----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| | Dewatering Ramps | | R&R | | \$ 30,000.00 | | | | | \$ 30,000.00 | |
| | Power Load Analysis WRF | Power Load and Arc Flash Study for WRF | R&R | | | | \$ 75,000.00 | | | \$ 75,000.00 | |
| WRF-16 | Reuse Pond Pump Sta Rehab | Replace Reuse Pumps and Controls at Reuse Pond | R&R | | | | | | \$ 128,000.00 | \$ 128,000.00 | |
| WL-08 | Plug Wells IMW-1 & SmW-1 | Log, Abandon and Plug Monitor Wells for WRF | R&R | | \$ 30,000.00 | | | | | \$ 30,000.00 | |
| WRF-04 | WWTP #4 Rehabilitation | Rehabilitation of WWTP #4 - Rebuild Air Manifold, Diffusers and Cd | R&R | \$ 100,000.00 | \$ 50,000.00 | \$ 50,000.00 | | | | \$ 100,000.00 | |
| WRF-07 | Blower Upgrade WRF Ph2 | Replace Blowers with efficient and quiet blowers at WRF Phase 2 | R&R | | | | | \$ 120,000.00 | | \$ 120,000.00 | |
| xx | Centrifuge Building Repairs | Repair the Metal Structure for the Centrifuge Building | R&R | | | | \$ 140,000.00 | | | \$ 140,000.00 | |
| WRF-11 | Expand Chlorine Contact | Additional Chlorine Contact Chamber | Cap | | | | | | | \$ - | |
| WRF-15 | Genset at WRF | Upgrade Generator to Full Stand-by Power Capacity | Cap / R&R | | | | | | | \$ - | |
| WRF-17 | Add 2 Effluent Pumps with VFD | Add 2 smaller Effluent Pumps with VFD | Cap / R&R | | | | | | | \$ - | |
| TOTAL WRF | | | | | \$ 100,000.00 | \$ 110,000.00 | \$ 85,000.00 | \$ 600,000.00 | \$ 120,000.00 | \$ 128,000.00 | \$ 1,043,000.00 |
| | Sewer Main Extension | Extension of sewer main to provide service to new customers | R&R | \$ 50,000.00 | \$ 50,000.00 | \$ 50,000.00 | \$ 40,000.00 | \$ 50,000.00 | \$ 50,000.00 | \$ 240,000.00 | |
| | Japanese Gardens Lift Station | Upgrade existing lift station to EWD standards prior to ownership | R&R | | | \$ 200,000.00 | | | | \$ 200,000.00 | |
| | I & I Rehabilitation | Line Interior of gravity sewer mains and manholes | R&R | | \$ 300,000.00 | \$ - | \$ 300,000.00 | | \$ 300,000.00 | \$ 900,000.00 | |
| | Beach Road Low Pressure Sewer | Install low pressure sewer line on south side from Flounders East | R&R | | | \$ 100,000.00 | | | | \$ 100,000.00 | |
| LS-02 | Study LS#121 Holiday Venture | Evaluate future needs and upgrades at Holiday Ventures Lift Station | Cap | | | | | \$ 100,000.00 | | \$ 100,000.00 | |
| LS-05 | LS#121 By-pass Pump | Install By-pass Pump at Holiday Ventures Lift Station | Cap | | | | | | \$ 65,000.00 | \$ 65,000.00 | |
| CL-01 | Beach Road Force Main | Replace Beach Road Force Main | R&R | | \$ 645,000.00 | | | | | \$ 645,000.00 | |
| CL-06 | Isolation Valves on Force Mains | Install Forcemain Isolation Valves on Force Mains | R&R | | | \$ 67,000.00 | | | | \$ 67,000.00 | |
| | Wireless Monitor System | Install Wireless Monitor System on the Vacuum System | R&R | | | \$ 300,000.00 | | \$ 300,000.00 | | \$ 600,000.00 | |
| | Vacuum Station Rehab | Repair / Replace roof truss, roof and storage tanks | R&R | | \$ 100,000.00 | | | \$ 50,000.00 | | \$ 150,000.00 | |
| LS02 | LS-03 | Upgrade LS #121 | Cap / R&R | | | | | | | \$ - | |
| | LS-04 | New Generator for Lsta #121 | Cap / R&R | | | | | | | \$ - | |
| | LS-08 | Instrumentation Upgrades at All L | R&R | | | \$ - | \$ 125,000.00 | | | \$ 125,000.00 | |
| | CL-02 | Force Main Lsta #121 South | Cap | | | | | | | \$ - | |
| | CL-05 | North Beach Sewer Study | Cap | | | | | | | \$ - | |
| | CL-08 | CCTV Camera and Trailer | R&R | | | | | \$ - | | \$ - | |
| TOTAL COLLECTIONS | | | | | \$ 50,000.00 | \$ 1,095,000.00 | \$ 717,000.00 | \$ 465,000.00 | \$ 500,000.00 | \$ 415,000.00 | \$ 3,192,000.00 |
| TOTAL SEWER | | | | | \$ 150,000.00 | \$ 1,205,000.00 | \$ 802,000.00 | \$ 1,065,000.00 | \$ 620,000.00 | \$ 543,000.00 | \$ 4,235,000.00 |
| RU-01 | Study RU System | Evaluate future needs and upgrades at Holiday Ventures and Mains | Cap | | | | \$ - | \$ 100,000.00 | | \$ 100,000.00 | |
| RU-03 | Rehab RU PS at Holiday Venture | Rehabilitate the Reuse Pump Station at Holiday Ventures | Cap | | | | | \$ - | \$ 100,000.00 | \$ 100,000.00 | |
| RU-02 | Reuse Storage Tank and HV | Add Reuse Storage Tank at Holiday Ventures | Cap | | | | | | \$ - | \$ - | |
| RU-04 | Reuse Main from WRF to HV | Add Reuse Main from WRF to Holiday Venture Storage Tank | Cap | | | | | | | \$ - | |
| TOTAL REUSE | | | | | \$ - | \$ - | \$ - | \$ - | \$ 100,000.00 | \$ 100,000.00 | \$ 200,000.00 |
| EWD_01 | Asset Management | Evaluate and Purchase Asset Management System | R&R | | | \$ 72,000.00 | | | | \$ 72,000.00 | |
| | Masterplan Update | Review and Update Utility Masterplan | Cap | | | | | | \$ 155,000.00 | \$ 155,000.00 | |
| TOTAL ASSET MANAGEMENT | | | | | \$ - | \$ - | \$ 72,000.00 | \$ - | \$ - | \$ 155,000.00 | \$ 227,000.00 |
| TOTAL CIP | | | | | \$ 830,000.00 | \$ 2,000,000.00 | \$ 1,871,000.00 | \$ 1,700,000.00 | \$ 1,507,000.00 | \$ 1,223,000.00 | \$ 8,301,000.00 |