

RAMONA MUNICIPAL WATER DISTRICT



DRAFT

SANTA MARIA WATER RECLAMATION PLANT & COLLECTION SYSTEM FACILITIES PLAN

- JUNE 2018 -

**RAMONA MUNICIPAL WATER DISTRICT
SANTA MARIA WATER RECLAMATION PLANT & COLLECTION SYSTEM FACILITIES PLAN (DRAFT)**

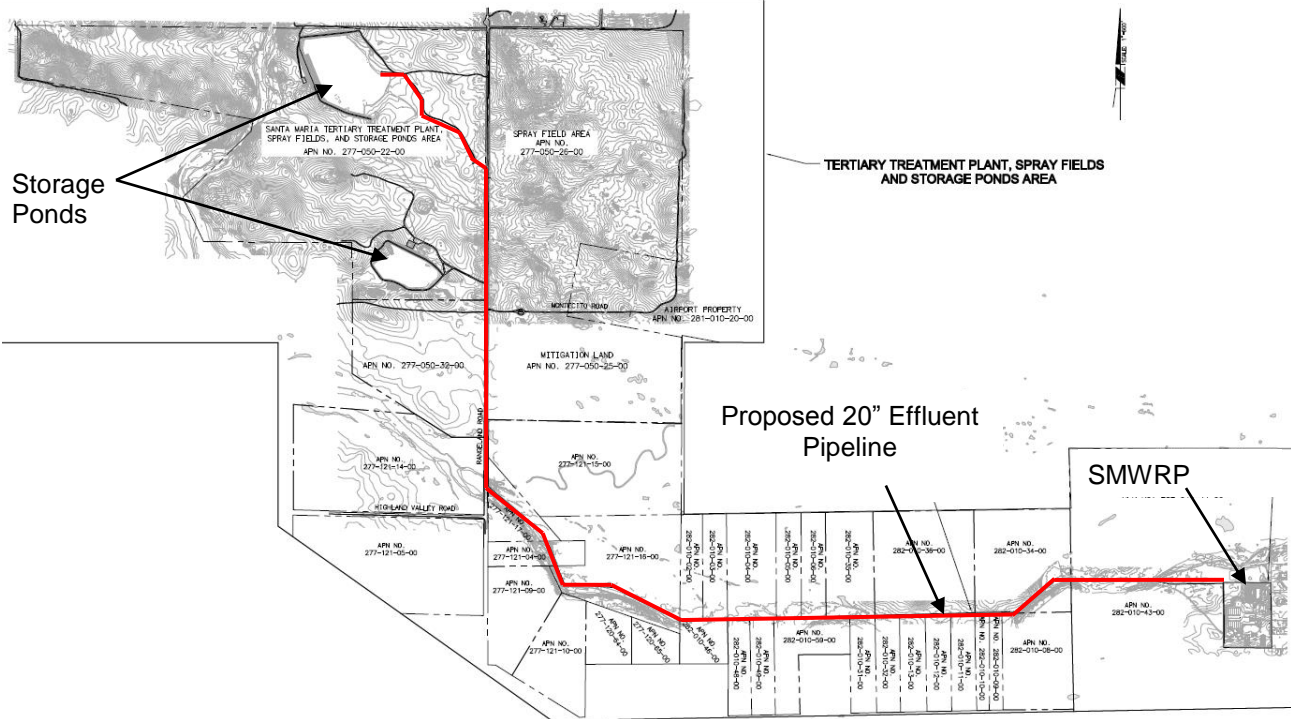
- JUNE 2018 -

| Task | Project Title | Planning-Level Project Costs * | | | | | | Planned Completion |
|-------------------|--|--------------------------------|------------|---------------|--------------|---------------------|--------------|--------------------|
| | | Land Acquisition | Design | Environmental | Construction | District Admin & CM | Total | |
| 1 | Effluent Transmission Pipeline | N/A | \$ 280,000 | \$ 130,000 | \$ 4,850,000 | \$ 240,000 | \$ 5,500,000 | FY17/18 - 18/19 |
| 2 | Clarifier No. 3 Rehabilitation Project | N/A | \$ 15,000 | N/A | \$ 420,000 | \$ 30,000 | \$ 465,000 | FY17/18 - 18/19 |
| 3 | Influent Pump Station & Grit Removal Facilities | N/A | \$ 275,000 | \$ 80,000 | \$ 2,750,000 | \$ 295,000 | \$ 3,400,000 | FY18/19 - 19/20 |
| 4 | Electrical System Improvements | N/A | \$ 70,000 | \$ 30,000 | \$ 700,000 | \$ 90,000 | \$ 890,000 | FY20/21 - 21/22 |
| 5 | Recycled Water Pond Rehabilitation Project | N/A | \$ 80,000 | N/A | \$ 390,000 | \$ 30,000 | \$ 500,000 | FY19/20 - 20/21 |
| 6 | Operation Building and Laboratory | N/A | \$ 30,000 | \$ 20,000 | \$ 600,000 | \$ 90,000 | \$ 740,000 | FY21/22 - 22/23 |
| 7 | Santa Maria Interceptor Trunk Line Relocation / Rehabilitation | \$ 200,000 | \$ 250,000 | \$ 80,000 | \$ 4,800,000 | \$ 180,000 | \$ 5,510,000 | FY26/27 - 27/28 |
| 8 | Collections Infrastructure Replacement Program (10-Year Program) | N/A | | | | | \$ 5,000,000 | FY 18/19 - 27/28 |
| 9 | Sewer Lift Station Rehabilitation Program (4) | N/A | \$ 175,000 | | \$ 925,000 | | \$ 1,100,000 | FY 19/20 - 22/23 |
| TOTAL COST | | | | | | | \$ | 23,105,000 |

Notes:

* - The planning level costs shown are represented in 2018 dollars. These values must be adjusted for inflation and to reflect increased project definition when developing budgets for future years.

**RAMONA MUNICIPAL WATER DISTRICT – SANTA MARIA WATER RECLAMATION PLANT
2018/2019 – 2029/2030 CAPITAL REPLACEMENT / IMPROVEMENT PROGRAM
PROJECT DESCRIPTION**


| | | | |
|--|---|--------------------------------|---|
| Project No: TBD | Priority: 1 | CIP ID: TBD | Location & Conceptual Design:  |
| Project Title: SMWRP Effluent Transmission Pipe (ETP) | Department: Engineering | Project Manager: TBD | |
| Project Description: Construct a new 20" effluent pipeline between the SMWRP and the storage ponds, adding a dedicated discharge pipeline to Pond #2 to allow for simultaneous effluent delivery and disposal to the sprayfields. The new pipeline will include access provisions for future cleaning and maintenance activities and provide for the connection of the existing supply line for Pond #1. Approximately 13,600 feet of the 18,500-foot long pipeline will be installed in the same trench as the existing 14" effluent pipeline to reduce excavation costs associated with the anticipated rocky ground conditions. High density polyethylene (HDPE) is the recommended pipe material because its flexibility will facilitate installation within the existing trench without the need for numerous fittings. | Justification: <ul style="list-style-type: none"> The existing 14" reinforced plastic mortar (Techite) effluent pipeline does not have sufficient capacity to convey peak effluent flows from the plant, resulting in potential spills. Installed over 50 years ago, the pipe is also reaching the end of its useful life. In addition, currently a single pipeline is used to deliver Plant effluent to Pond #2 and convey water from Pond #2 to the sprayfields. The hydraulics of the shared pipeline does not allow for simultaneous flow in both directions, causing operational difficulties in effluent storage and disposal. | | |
| Operating Budget Impact: Fund 025: TBD Fund XXX: TBD Imp. Bond: TBD | Scheduling: Design Phase: Construction Phase: 10 months | | |

| FUNDING | TOTAL FUNDING | FY 2018/19 BUDGET | FY 2019/20 BUDGET | FY 2020/21 BUDGET | FY 2021/22 BUDGET | FY 2022/23 BUDGET | FY 2023/24 BUDGET | FY 2024/25 BUDGET | FY 2025/26 BUDGET | FY 2026/27 BUDGET | BEYOND FY 2027/28 BUDGET |
|----------------------|---------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Fund XXX | TBD | | | | | | | | | | |
| Imp. Bond | TBD | | | | | | | | | | |
| Fund 025 | TBD | | | | | | | | | | |
| TOTAL FUNDING | TBD | | | | | | | | | | |

| COST BREAKDOWN | TOTAL COST | FY 2018/19 PROJECTED EXPENSES | FY 2019/20 PROJECTED EXPENSES | FY 2020/21 PROJECTED EXPENSES | FY 2021/22 PROJECTED EXPENSES | FY 2022/23 PROJECTED EXPENSES | FY 2023/24 PROJECTED EXPENSES | FY 2024/25 PROJECTED EXPENSES | FY 2025/26 PROJECTED EXPENSES | FY 2026/27 PROJECTED EXPENSES | BEYOND FY 2027/28 PROJECTED EXPENSES |
|------------------------------|---------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------------|
| Land Acquisition | N/A | | | | | | | | | | |
| Design | \$ 280,000 | | | | | | | | | | |
| Environmental | \$ 130,000 | \$ 40,000 | | | | | | | | | |
| Construction | \$ 4,850,000 | \$ 3,400,000 | | | | | | | | | |
| District Administration & CM | \$ 240,000 | \$ 60,000 | | | | | | | | | |
| TOTAL COST | \$ 5,500,000 | \$ 3,500,000 | | | | | | | | | |

Notes:
1. The planning level costs shown are represented in 2018 dollars. These values must be adjusted for inflation and to reflect increased project definition when developing budgets for future years.

**RAMONA MUNICIPAL WATER DISTRICT – SANTA MARIA WATER RECLAMATION PLANT
2018/2019 – 2029/2030 CAPITAL REPLACEMENT / IMPROVEMENT PROGRAM
PROJECT DESCRIPTION**

| | | | |
|---|---|--------------------------------|--|
| <u>Project No:</u> TBD | <u>Priority:</u> 2 | <u>CIP ID:</u> TBD | <u>Location & Conceptual Design:</u>  |
| <u>Project Title:</u> SMWRP Clarifier No. 3 Rehabilitation Project | <u>Department:</u> Engineering | <u>Project Manager:</u> TBD | |
| <u>Project Description:</u> <ul style="list-style-type: none"> Complete rehabilitation of Clarifier No. 3 interior mechanism. | <u>Justification:</u> <ul style="list-style-type: none"> With the construction of Clarifier No. 4 project, District operation staff was able to take Clarifier No. 3 out of service for maintenance and rehabilitation. Assessment of the condition of clarifier No. 3 mechanism determined complete rehabilitation was required. | | |
| <u>Operating Budget Impact:</u> Fund 025: TBD Fund XXX: TBD Imp. Bond: TBD | <u>Scheduling:</u> Design Phase: Construction Phase: 10 months | | |


| FUNDING | TOTAL FUNDING | FY 2018/19 BUDGET | FY 2019/20 BUDGET | FY 2020/21 BUDGET | FY 2021/22 BUDGET | FY 2022/23 BUDGET | FY 2023/24 BUDGET | FY 2024/25 BUDGET | FY 2025/26 BUDGET | FY 2026/27 BUDGET | BEYOND FY 2027/28 BUDGET |
|----------------------|---------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Fund XXX | TBD | | | | | | | | | | |
| Imp. Bond | TBD | | | | | | | | | | |
| Fund 025 | TBD | | | | | | | | | | |
| TOTAL FUNDING | TBD | | | | | | | | | | |

| COST BREAKDOWN | TOTAL COST | FY 2018/19 PROJECTED EXPENSES | FY 2019/20 PROJECTED EXPENSES | FY 2020/21 PROJECTED EXPENSES | FY 2021/22 PROJECTED EXPENSES | FY 2022/23 PROJECTED EXPENSES | FY 2023/24 PROJECTED EXPENSES | FY 2024/25 PROJECTED EXPENSES | FY 2025/26 PROJECTED EXPENSES | FY 2026/27 PROJECTED EXPENSES | BEYOND FY 2027/28 PROJECTED EXPENSES |
|------------------------------|-------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------------|
| Land Acquisition | N/A | | | | | | | | | | |
| Design | \$ 15,000 | | | | | | | | | | |
| Environmental | | | | | | | | | | | |
| Construction | \$ 430,000 | \$ 430,000 | | | | | | | | | |
| District Administration & CM | \$ 20,000 | \$ 20,000 | | | | | | | | | |
| TOTAL COST | \$ 465,000 | \$ 450,000 | | | | | | | | | |

Notes:

- The planning level costs shown are represented in 2018 dollars. These values must be adjusted for inflation and to reflect increased project definition when developing budgets for future years.

**RAMONA MUNICIPAL WATER DISTRICT – SANTA MARIA WATER RECLAMATION PLANT
2018/2019 – 2029/2030 CAPITAL REPLACEMENT / IMPROVEMENT PROGRAM
PROJECT DESCRIPTION**


| | | | |
|--|---|--------------------------------|--|
| <u>Project No:</u> TBD | <u>Priority:</u> 3 | <u>CIP ID:</u> TBD | <u>Location & Conceptual Design:</u>  |
| <u>Project Title:</u> Influent Pump Station and Grit Removal Facilities | <u>Department:</u> Engineering | <u>Project Manager:</u> TBD | |
| <u>Project Description:</u> Construct a new influent pump station and abandon the existing wet well/dry well station. Construct screenings and grit removal facilities at the plant. | <u>Justification:</u> There are currently no grit removal facilities at the plant headworks, resulting in accumulations of grit in various process tanks. Replacing existing grinders with screening and grit removal equipment will reduce maintenance costs associated with cleaning and repairing downstream equipment. The existing influent pump station is a below grade capsular package pump station that is reaching the end of its service life. Water infiltration due to corrosion of the drywell has allowed water to spill onto electrical components, causing hazardous conditions. A new submersible influent pump station configuration will reduce confined space entry requirements. | | |
| <u>Operating Budget Impact:</u> Fund 025: TBD Fund XXX: TBD Imp. Bond: TBD | <u>Scheduling:</u> Design Phase: 6 months Construction Phase: 12 months | | |

| FUNDING | TOTAL FUNDING | FY 2018/19 BUDGET | FY 2019/20 BUDGET | FY 2020/21 BUDGET | FY 2021/22 BUDGET | FY 2022/23 BUDGET | FY 2023/24 BUDGET | FY 2024/25 BUDGET | FY 2025/26 BUDGET | FY 2026/27 BUDGET | BEYOND FY 2027/28 BUDGET |
|----------------------|---------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Fund XXX | TBD | | | | | | | | | | |
| Imp. Bond | TBD | | | | | | | | | | |
| Fund 025 | TBD | | | | | | | | | | |
| TOTAL FUNDING | TBD | | | | | | | | | | |

| COST BREAKDOWN | TOTAL COST | FY 2018/19 PROJECTED EXPENSES | FY 2019/20 PROJECTED EXPENSES | FY 2020/21 PROJECTED EXPENSES | FY 2021/22 PROJECTED EXPENSES | FY 2022/23 PROJECTED EXPENSES | FY 2023/24 PROJECTED EXPENSES | FY 2024/25 PROJECTED EXPENSES | FY 2025/26 PROJECTED EXPENSES | FY 2026/27 PROJECTED EXPENSES | BEYOND FY 2027/28 PROJECTED EXPENSES |
|------------------------------|--------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------------|
| Land Acquisition | N/A | | | | | | | | | | |
| Design | \$400,000 | \$ 400,000 | | | | | | | | | |
| Environmental | | | | | | | | | | | |
| Construction | \$ 2,900,000 | | \$ 1,450,000 | \$ 1,450,000 | | | | | | | |
| District Administration & CM | \$ 100,000 | | \$ 50,000 | \$ 50,000 | | | | | | | |
| TOTAL COST | \$3,400,000 | \$ 400,000 | \$ 1,500,000 | \$ 1,500,000 | | | | | | | |

Note: The costs shown are represented in 2018 dollars. These values must be adjusted for inflation and to reflect increased project definition when developing budgets for future years.

**RAMONA MUNICIPAL WATER DISTRICT – SANTA MARIA WATER RECLAMATION PLANT
2018/2019 – 2029/2030 CAPITAL REPLACEMENT / IMPROVEMENT PROGRAM
PROJECT DESCRIPTION**

| | | | |
|---|---|--------------------------------|--|
| <u>Project No:</u> TBD | <u>Priority:</u> 4 | <u>CIP ID:</u> TBD | <u>Location & Conceptual Design:</u>  |
| <u>Project Title:</u> SMWRP Electrical System Improvements | <u>Department:</u> Engineering | <u>Project Manager:</u> TBD | |
| <u>Project Description:</u> The following electrical improvements are required to increase system reliability and operability: <ul style="list-style-type: none"> Replace the existing electric service, increasing the capacity to 1200 Amps. Replace the existing MCC in the control building integrating soft starters and VFD's where applicable. Replace the existing main switchboard, relocating the metering and main distribution sections to the exterior of the building. Install a new 500kW diesel generator to serve the primary and secondary facilities, including automatic transfer switch (ATS) and 24-hr base fuel tank. The generator will be housed outside in a weather proof enclosure and under a shade structure with the new main/metering section and ATS. The existing influent pump station generator will continue to be used to back-up the influent pump station. Consolidate alarm and status indication to a single location, replace the outdated auto-dialer with a new messaging/calling system, and a construct fiber optic network to transport alarms and status signals to the Control Building. | <u>Justification:</u> Most of the electrical equipment in the plant's Control Building was installed in 1978 during the original plant construction and is in need of upgrade. The existing electric service is inadequate for the existing loads based on current National Electric Code methodology. The main switchboard and MCC are antiquated and difficult to maintain. Modifications to the MCC over the years have resulted in abandoned relays and other devices serving no purpose. The existing 85 kW LP-Gas generator serving the primary and secondary facilities is undersized and severely limits plant operations during a power failure. Currently, emergency plant operations consists of one aerator, control building lighting, one RAS pump, and one clarifier. | | |
| <u>Operating Budget Impact:</u> Fund 025: TBD Fund XXX: TBD Imp. Bond: TBD | <u>Scheduling:</u> Design Phase: 6 months Construction Phase: 12 months | | |


| FUNDING | TOTAL FUNDING | FY 2018/19 BUDGET | FY 2019/20 BUDGET | FY 2020/21 BUDGET | FY 2021/22 BUDGET | FY 2022/23 BUDGET | FY 2023/24 BUDGET | FY 2024/25 BUDGET | FY 2025/26 BUDGET | FY 2026/27 BUDGET | BEYOND FY 2027/28 BUDGET |
|----------------------|---------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Fund XXX | TBD | | | | | | | | | | |
| Imp. Bond | TBD | | | | | | | | | | |
| Fund 025 | TBD | | | | | | | | | | |
| TOTAL FUNDING | TBD | | | | | | | | | | |

| COST BREAKDOWN | TOTAL COST | FY 2018/19 PROJECTED EXPENSES | FY 2019/20 PROJECTED EXPENSES | FY 2020/21 PROJECTED EXPENSES | FY 2021/22 PROJECTED EXPENSES | FY 2022/23 PROJECTED EXPENSES | FY 2023/24 PROJECTED EXPENSES | FY 2024/25 PROJECTED EXPENSES | FY 2025/26 PROJECTED EXPENSES | FY 2026/27 PROJECTED EXPENSES | BEYOND FY 2027/28 PROJECTED EXPENSES |
|------------------------------|-------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------------|
| Land Acquisition | N/A | | | | | | | | | | |
| Design | \$ 70,000 | | | \$ 70,000 | | | | | | | |
| Environmental | \$ 30,000 | | | \$ 30,000 | | | | | | | |
| Construction | \$ 700,000 | | | | \$ 700,000 | | | | | | |
| District Administration & CM | \$ 90,000 | | | | \$ 90,000 | | | | | | |
| TOTAL COST | \$ 890,000 | | | \$ 100,000 | \$ 790,000 | | | | | | |

Notes:

- Conceptual design based on existing and proposed equipment loads and the Electrical System Report prepared by EPI, Inc., November 2006.
- Note: The costs shown are represented in 2018 dollars. These values must be adjusted for inflation and to reflect increased project definition when developing budgets for future years

**RAMONA MUNICIPAL WATER DISTRICT – SANTA MARIA WATER RECLAMATION PLANT
2018/2019 – 2029/2030 CAPITAL REPLACEMENT / IMPROVEMENT PROGRAM
PROJECT DESCRIPTION**

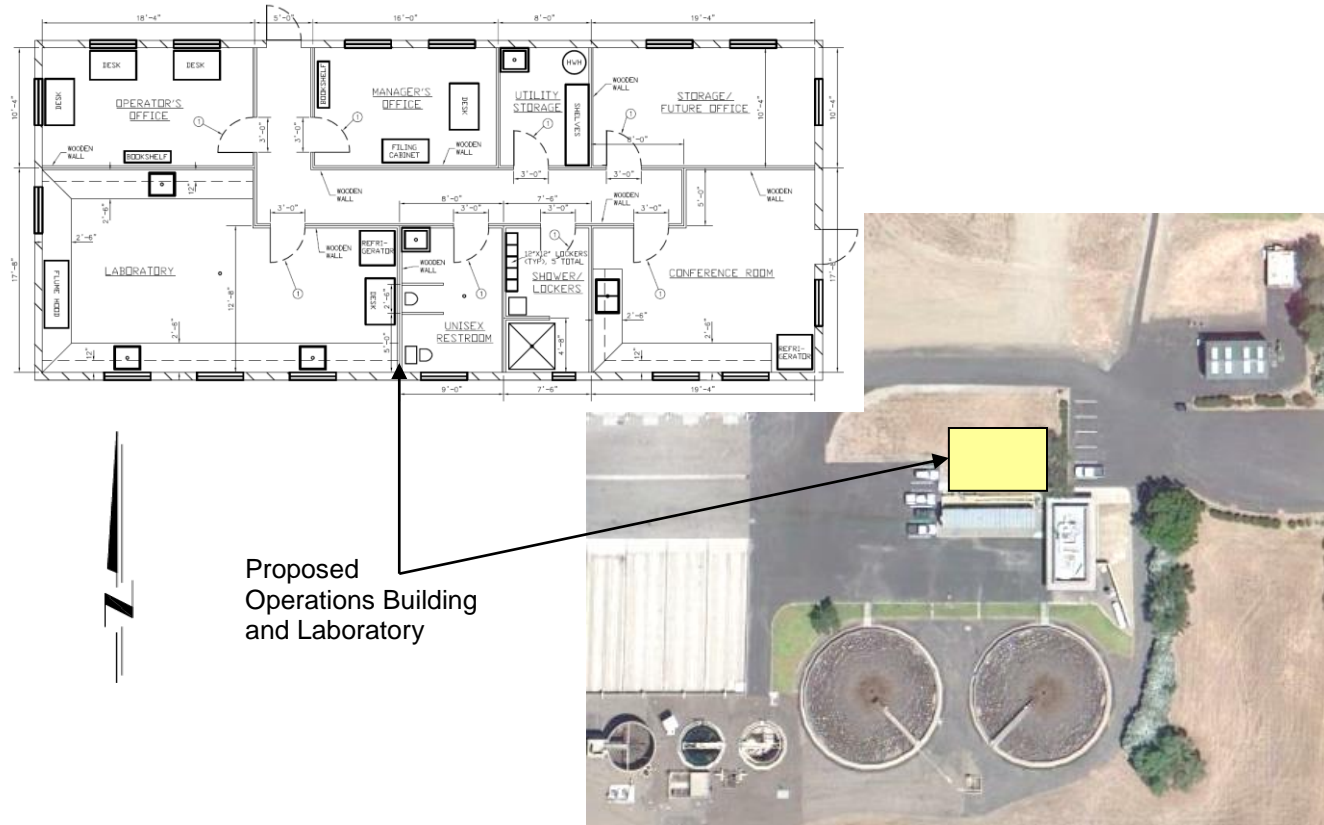
| | | | |
|---|---|--------------------------------|--|
| <u>Project No:</u> TBD | <u>Priority:</u> 5 | <u>CIP ID:</u> TBD | <u>Location & Conceptual Design:</u>  |
| <u>Project Title:</u> Recycled Water Pond Rehabilitation Project | <u>Department:</u> Engineering | <u>Project Manager:</u> TBD | |
| <u>Project Description:</u> <ul style="list-style-type: none"> Complete required repairs and rehabilitation of the pond and convert to tertiary effluent storage pond. Complete necessary improvements to Tertiary Plant | <u>Justification:</u> <ul style="list-style-type: none"> The existing levy on the north side of Pond 1 is showing signs of seepage. The seepage needs to be addressed to prevent erosion of the inside on the levy which could compromise its structural integrity. Pond 1 is currently used for wet weather storage of secondary effluent from the Santa Maria Water Reclamation Plant. The District would benefit from having a tertiary storage pond at it would reduce manual operation of the tertiary plant. | | |
| <u>Operating Budget Impact:</u> Fund 025: TBD Fund XXX: TBD Imp. Bond: TBD | <u>Scheduling:</u> Design Phase: Construction Phase: | | |

| FUNDING | TOTAL FUNDING | FY 2018/19 BUDGET | FY 2019/20 BUDGET | FY 2020/21 BUDGET | FY 2021/22 BUDGET | FY 2022/23 BUDGET | FY 2023/24 BUDGET | FY 2024/25 BUDGET | FY 2025/26 BUDGET | FY 2026/27 BUDGET | BEYOND FY 2027/28 BUDGET |
|----------------------|---------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Fund XXX | TBD | | | | | | | | | | |
| Imp. Bond | TBD | | | | | | | | | | |
| Fund 025 | TBD | | | | | | | | | | |
| TOTAL FUNDING | TBD | | | | | | | | | | |

| COST BREAKDOWN | TOTAL COST | FY 2018/19 PROJECTED EXPENSES | FY 2019/20 PROJECTED EXPENSES | FY 2020/21 PROJECTED EXPENSES | FY 2021/22 PROJECTED EXPENSES | FY 2022/23 PROJECTED EXPENSES | FY 2023/24 PROJECTED EXPENSES | FY 2024/25 PROJECTED EXPENSES | FY 2025/26 PROJECTED EXPENSES | FY 2026/27 PROJECTED EXPENSES | BEYOND FY 2027/28 PROJECTED EXPENSES |
|------------------------------|-------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------------|
| Land Acquisition | N/A | | | | | | | | | | |
| Design | \$ 80,000 | | | | \$75,000 | \$5,000 | | | | | |
| Environmental | | | | | | | | | | | |
| Construction | \$ 390,000 | | | | | \$ 390,000 | | | | | |
| District Administration & CM | \$ 30,000 | | | | | \$ 30,000 | | | | | |
| TOTAL COST | \$ 500,000 | | | | \$ 75,000 | \$ 425,000 | | | | | |

Notes:
1. The planning level costs shown are represented in 2018 dollars. These values must be adjusted for inflation and to reflect increased project definition when developing budgets for future years.

**RAMONA MUNICIPAL WATER DISTRICT – SANTA MARIA WATER RECLAMATION PLANT
2018/2019 – 2029/2030 CAPITAL REPLACEMENT / IMPROVEMENT PROGRAM
PROJECT DESCRIPTION**

| | | | |
|---|--|--------------------------------|--|
| Project No: TBD | Priority: 6 | CIP ID: TBD | Location & Conceptual Design:  |
| Project Title: SMWRP Operations Building and Laboratory | Department: Engineering | Project Manager: TBD | |
| Project Description: Construct a new Operations Building including laboratory facilities just north of the existing operations trailer. Features: • 1880 SF • 3 Offices + 1 storage room • Laboratory • Conference room • Locker room/showers • Restroom | Justification: Plant operations are currently housed in temporary trailers that are aging and inadequate to support the operations staff. In addition, off-site laboratory services are utilized due to the lack of on-site facilities. A new consolidated operations and laboratory building will improve the efficiency of Plant operations. | | |
| Operating Budget Impact: Fund 025: TBD Fund XXX: TBD Imp. Bond: TBD | Scheduling: Design Phase: 6 months Construction Phase: 12 months | | |

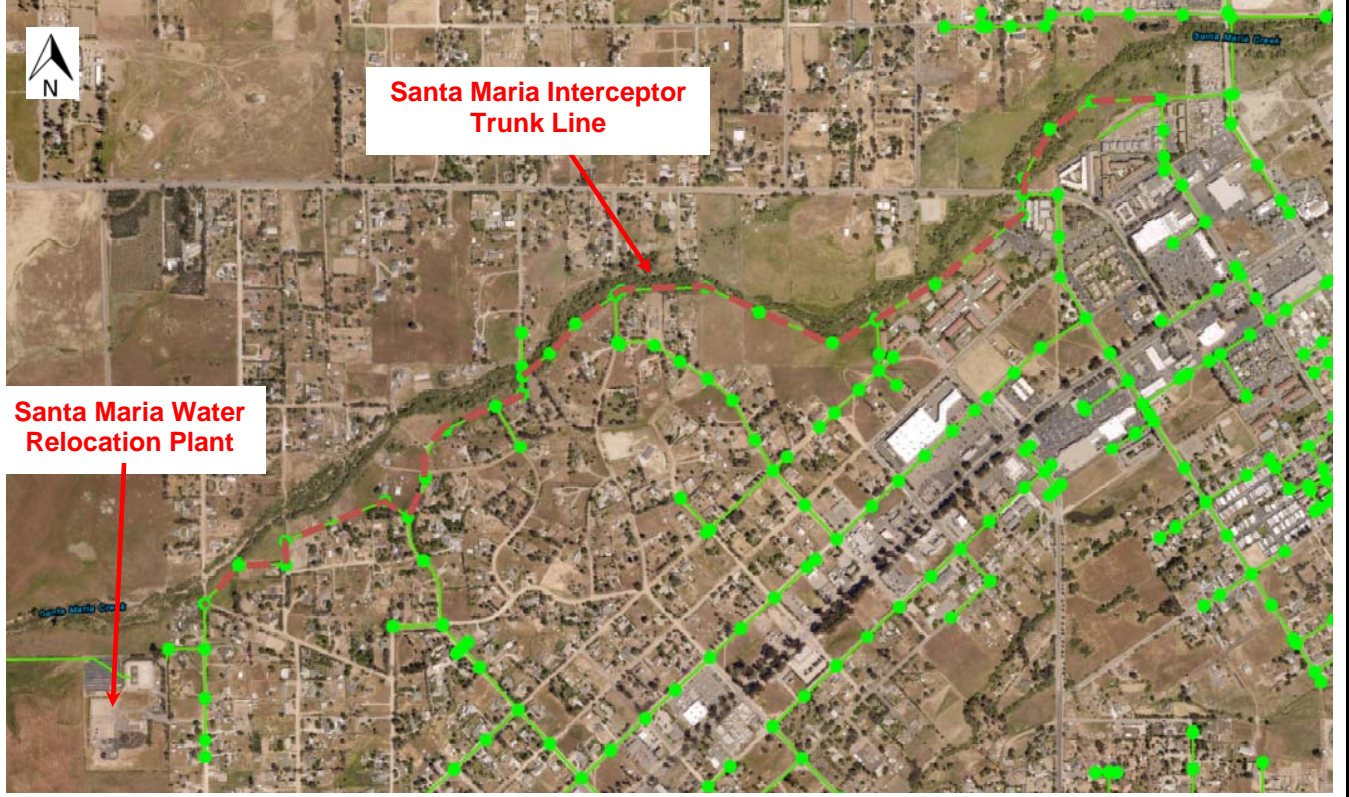
| FUNDING | TOTAL FUNDING | FY 2018/19 BUDGET | FY 2019/20 BUDGET | FY 2020/21 BUDGET | FY 2021/22 BUDGET | FY 2022/23 BUDGET | FY 2023/24 BUDGET | FY 2024/25 BUDGET | FY 2025/26 BUDGET | FY 2026/27 BUDGET | BEYOND FY 2027/28 BUDGET |
|----------------------|---------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Fund XXX | TBD | | | | | | | | | | |
| Imp. Bond | TBD | | | | | | | | | | |
| Fund 025 | TBD | | | | | | | | | | |
| TOTAL FUNDING | TBD | | | | | | | | | | |

| COST BREAKDOWN | TOTAL COST | FY 2018/19 PROJECTED EXPENSES | FY 2019/20 PROJECTED EXPENSES | FY 2020/21 PROJECTED EXPENSES | FY 2021/22 PROJECTED EXPENSES | FY 2022/23 PROJECTED EXPENSES | FY 2023/24 PROJECTED EXPENSES | FY 2024/25 PROJECTED EXPENSES | FY 2025/26 PROJECTED EXPENSES | FY 2026/27 PROJECTED EXPENSES | BEYOND FY 2027/28 PROJECTED EXPENSES |
|------------------------------|------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------------|
| Land Acquisition | N/A | | | | | | | | | | |
| Design | \$ 30,000 | | | | | \$ 30,000 | | | | | |
| Environmental | \$ 20,000 | | | | | \$ 20,000 | | | | | |
| Construction | \$ 600,000 | | | | | | \$ 600,000 | | | | |
| District Administration & CM | \$ 90,000 | | | | | | \$ 90,000 | | | | |
| TOTAL COST | \$740,000 | | | | | \$ 50,000 | \$ 690,000 | | | | |

Notes:

- The conceptual design is based on the 100% design of Phase I of the SMWRP Improvements Project by RBF, November 2011.
- The planning level costs shown are represented in 2018 dollars. These values must be adjusted for inflation and to reflect increased project definition when developing budgets for future years.

**RAMONA MUNICIPAL WATER DISTRICT – SANTA MARIA WATER RECLAMATION PLANT
2018/2019 – 2029/2030 CAPITAL REPLACEMENT / IMPROVEMENT PROGRAM
PROJECT DESCRIPTION**

| | | | |
|--|---|--------------------------------|--|
| <u>Project No:</u> TBD | <u>Priority:</u> 7 | <u>CIP ID:</u> TBD | <u>Location & Conceptual Design:</u>  |
| <u>Project Title:</u> Santa Maria Interceptor Trunk Line Relocation / Replacement | <u>Department:</u> Engineering | <u>Project Manager:</u> TBD | |
| <u>Project Description:</u> <ul style="list-style-type: none"> Relocation of approximately 1.8 miles of Santa Maria Interceptor Trunk Line and other sewer mains discharging into this trunk line within the trunk line section or, Relining and rehabilitation of existing interceptor where required. | <u>Justification:</u> <ul style="list-style-type: none"> Areas of the existing Santa Maria Interceptor Trunk line are within the Santa Maria Creek area. Trunk line varies in size from 21” to 24” in diameter. Some areas within the creek are inaccessible for District operation staff to complete maintenance and repairs, especially during large rain events when the creek is full of water. As the creek area continues to expand additional areas will become inaccessible in the future. Ongoing inspection and maintenance of the Santa Maria Interceptor trunk line indicates line is in good to fair condition. District needs to start planning for relocation, rehabilitation/relining in the future. | | |
| <u>Operating Budget Impact:</u> Fund 025: TBD Fund XXX: TBD Imp. Bond: TBD | <u>Scheduling:</u> Design Phase: Construction Phase: | | |

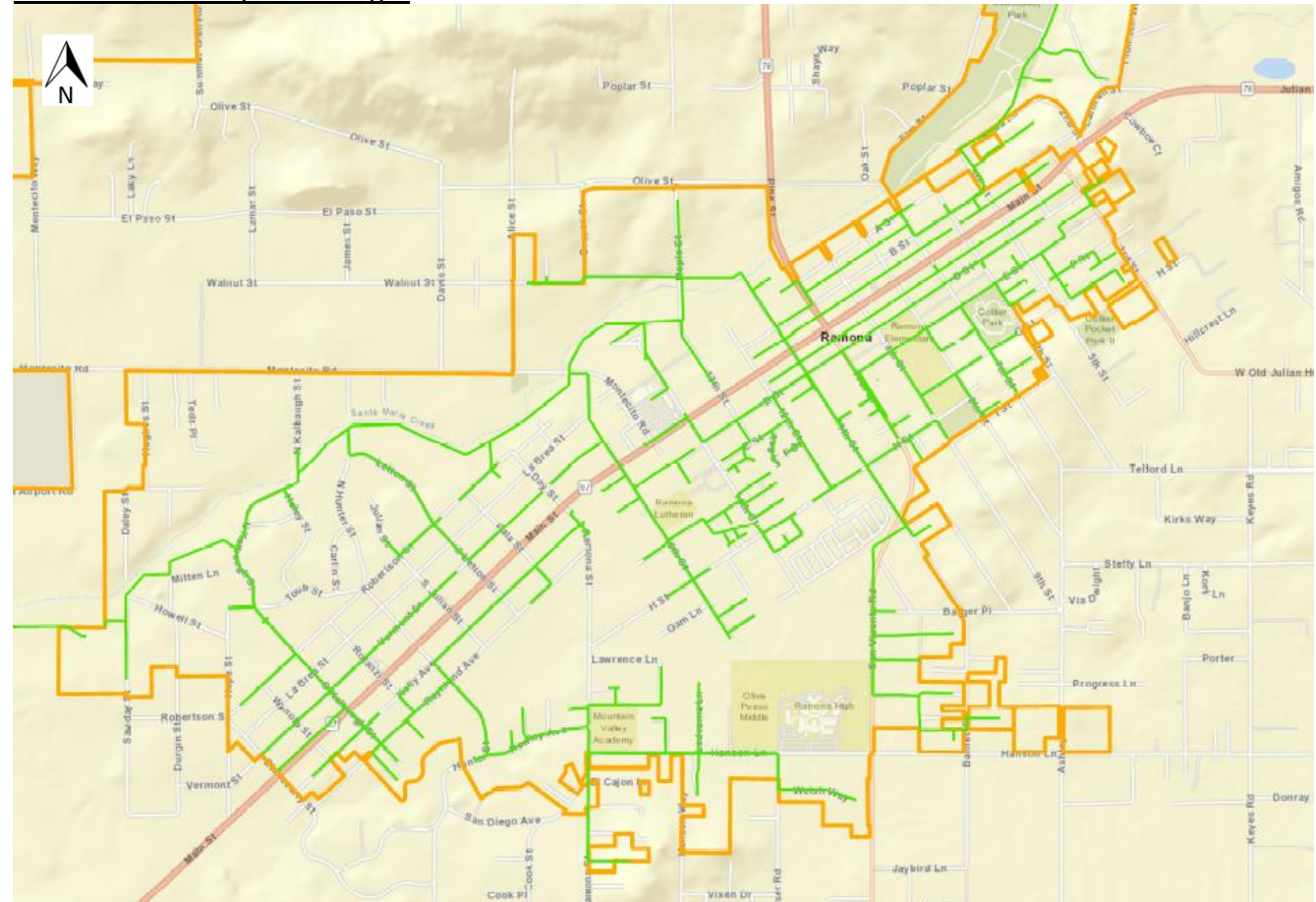
| FUNDING | TOTAL FUNDING | FY 2018/19 BUDGET | FY 2019/20 BUDGET | FY 2020/21 BUDGET | FY 2021/22 BUDGET | FY 2022/23 BUDGET | FY 2023/24 BUDGET | FY 2024/25 BUDGET | FY 2025/26 BUDGET | FY 2026/27 BUDGET | BEYOND FY 2027/28 BUDGET |
|----------------------|---------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Fund XXX | TBD | | | | | | | | | | |
| Imp. Bond | TBD | | | | | | | | | | |
| Fund 025 | TBD | | \$ 350,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 |
| TOTAL FUNDING | TBD | | | | | | | | | | |

| COST BREAKDOWN | TOTAL COST | FY 2018/19 PROJECTED EXPENSES | FY 2019/20 PROJECTED EXPENSES | FY 2020/21 PROJECTED EXPENSES | FY 2021/22 PROJECTED EXPENSES | FY 2022/23 PROJECTED EXPENSES | FY 2023/24 PROJECTED EXPENSES | FY 2024/25 PROJECTED EXPENSES | FY 2025/26 PROJECTED EXPENSES | FY 2026/27 PROJECTED EXPENSES | BEYOND FY 2027/28 PROJECTED EXPENSES |
|------------------------------|---------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------------|
| Land Acquisition | \$ 200,000 | | | | | | | | | | |
| Design | \$ 250,000 | | | | | | | | | | |
| Environmental | \$ 80,000 | | | | | | | | | | |
| Construction | \$ 4,800,000 | | | | | | | | | | |
| District Administration & CM | \$ 180,000 | | | | | | | | | | |
| TOTAL COST | \$ 5,510,000 | | | | | | | | | | |

Notes:

- The preliminary costs are based on the Santa Maria Interceptor Relocation Study completed by Dudek in 2001.
- The planning level costs shown are represented in 2018 dollars. These values must be adjusted for inflation and to reflect increased project definition when developing budgets for future years.

**RAMONA MUNICIPAL WATER DISTRICT – SANTA MARIA WATER RECLAMATION PLANT
2018/2019 – 2029/2030 CAPITAL REPLACEMENT / IMPROVEMENT PROGRAM
PROJECT DESCRIPTION**

| | | | |
|---|---|--------------------------------|--|
| Project No: TBD | Task: 8 | CIP/CRP ID: TBD | Location & Conceptual Design:  |
| Project Title: Santa Maria Collection Infrastructure Replacement Program (10-Year Program) | Department: Engineering / Operations | Project Manager: TBD | |
| Project Description: <ul style="list-style-type: none"> This program will replace collection infrastructure facilities throughout the Santa Maria Sewer Service Area | Justification: <ul style="list-style-type: none"> Pipelines included under this task are towards the end of the designed lifespan with some of them showing signs of deterioration. Portions of this sewer main within the Santa Maria Sewer Service Area were identified under the 1998 Wastewater Master Plan prepared by Boyle Engineering to require upsizing at built out. Projects are being prioritized by operations staff based on findings during regular maintenance and CCTV inspections. | | |
| Budget Impact: Fund 025: TBD Fund XXX: TBD Imp. Bond: TBD | Scheduling: Design Phase: Construction Phase I: | | |

| FUNDING | TOTAL FUNDING | FY 2018/19 BUDGET | FY 2019/20 BUDGET | FY 2020/21 BUDGET | FY 2021/22 BUDGET | FY 2022/23 BUDGET | FY 2023/24 BUDGET | FY 2024/25 BUDGET | FY 2025/26 BUDGET | FY 2026/27 BUDGET | BEYOND FY 2027/28 BUDGET |
|----------------------|---------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Fund XXX | TBD | | | | | | | | | | |
| Imp. Bond | TBD | | | | | | | | | | |
| Fund 025 | TBD | | | | | | | | | | |
| TOTAL FUNDING | TBD | | | | | | | | | | |

| COST BREAKDOWN | TOTAL COST | FY 2018/19 PROJECTED EXPENSES | FY 2019/20 PROJECTED EXPENSES | FY 2020/21 PROJECTED EXPENSES | FY 2021/22 PROJECTED EXPENSES | FY 2022/23 PROJECTED EXPENSES | FY 2023/24 PROJECTED EXPENSES | FY 2024/25 PROJECTED EXPENSES | FY 2025/26 PROJECTED EXPENSES | FY 2026/27 PROJECTED EXPENSES | BEYOND FY 2027/28 PROJECTED EXPENSES |
|------------------------------|---------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------------|
| Land Acquisition | | | | | | | | | | | |
| Design & Environmental | | | | | | | | | | | |
| Construction | \$ 5,000,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 |
| District Administration & CM | | | | | | | | | | | |
| TOTAL COST | \$ 5,000,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 | \$ 500,000 |

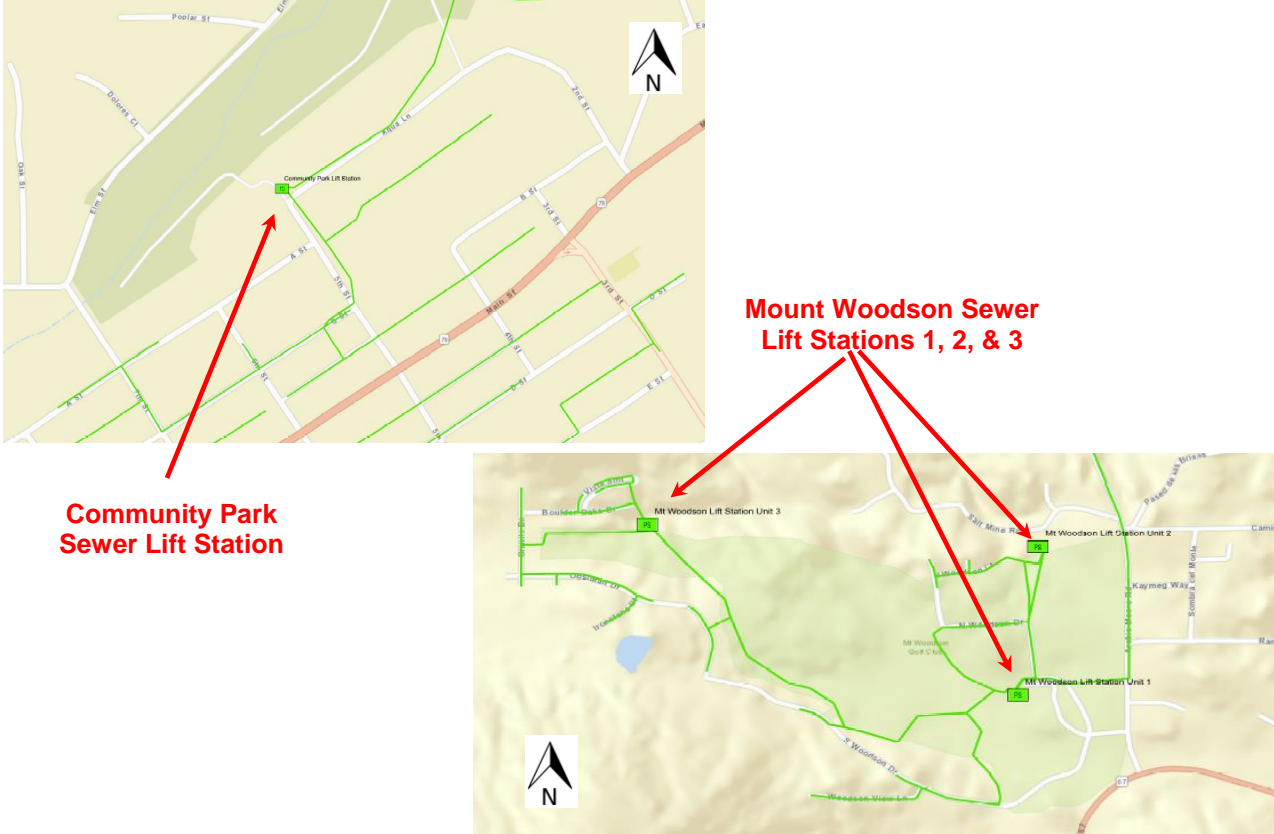
Note: The costs shown are represented in 2018 dollars. These values must be adjusted for inflation and to reflect increased project definition when developing budgets for future years.

**RAMONA MUNICIPAL WATER DISTRICT
CAPITAL REPLACEMENT / IMPROVEMENT PLAN
PROJECT DESCRIPTIONS**

| Santa Maria Collections | | |
|--------------------------------|-----------|--|
| <i>Location</i> | <i>SM</i> | |
| C-1 -- A St / 7th St | 1 | Completed 4/2018 New 8" PVC Sewer |
| C-7 -- 6th St Easement. | 2 | Completed 4/2018 New 8" PVC Sewer |
| C-8 -- Passion Place | 3 | Completed / Pipe was already 8" PVC |
| B St Alley / 7th & 8th | 4 | Collapsed, Cracked Pipe, Offset Joint / Needs Survey Line #13020 8" Clay |
| C-3/C-2 -- B St Alley | 5 | 6" Sewer. Easement Access Issues. |
| C-6/C-5 -- D St / 4th to 7th | 6 | 6" Sewer. Collapsed, Roots, Cracks. Add Line #12033. 8" Clay. Sag /Survey |
| C-1 -- F St / 8th St | 7 | 8" Sewer. Heavy Roots, Cracks, Offsets |
| C-10 -- Gst / 7th & 8th | 8 | 6" Sewer. Roots, Possible I&I |
| 14th St Apartments | 9 | 8" Sewer. Grease Problem, Sag, 100' up from 14th / Needs Survey |
| 11th St Trunk Line | 10 | 12" Sewer. Pipe change under Creek. Corrosion / Needs Survey |
| C-4 D St Alley | 11 | 6" Sewer. Minor Roots. Cracks |
| C-9 -- 9th St / H St to G St | 12 | 6" Sewer. Light Roots. Offsets. |
| C-11 -- 8th St / I St to G St | 13 | 6" Sewer. Minor Roots |
| C-7 -- F St | 14 | 6" PVC Sewer. Manhole Channel Repair for CCTV Camera Entry |
| C- 8 -- 10th St | 15 | 6" Sewer. NO RUSH. Possible in-house Repair. Line#12049 Broken/Debris |
| C-10 -- 8th/I St Easement | 16 | 6" Sewer. Easement Access Issues. Possible Lining. End of Run Crack. |
| Rangeland Totalizer | 17 | Install Totalizer before SM Wastewater Plant |
| Trunk Line Lining | 18 | I&I / Cracks. Line # 10001, 10015, 10018, 10020, 10021, 10026 |
| | | |

* Continued inspections will be performed adding future projects to the facility Plan living document

**RAMONA MUNICIPAL WATER DISTRICT – SANTA MARIA WATER RECLAMATION PLANT
2018/2019 – 2029/2030 CAPITAL REPLACEMENT / IMPROVEMENT PROGRAM
PROJECT DESCRIPTION**

| | | | |
|--|--|--------------------------------|--|
| <u>Project No:</u> TBD | <u>Task:</u> 9 | <u>CIP/CRP ID:</u> TBD | <u>Location & Conceptual Design:</u>  |
| <u>Project Title:</u> Santa Maria Sewer Lift Station Program | <u>Department:</u> Engineering / Operations | <u>Project Manager:</u> TBD | |
| <u>Project Description:</u> <ul style="list-style-type: none"> This program will complete as needed rehabilitation at each lift station. | <u>Justification:</u> <ul style="list-style-type: none"> Four sewer lift stations are included within the Santa Maria Sewer Collection Facilities. Lift stations include the following: <ul style="list-style-type: none"> Mount Woodson Lift Station Unit 1 Mount Woodson Lift Station Unit 2 Mount Woodson Lift Station Unit 3 Community Park Lift Station Various equipment at the different lift stations are getting to the end of the lifespan and in need of repair and/or replacement. | | |
| <u>Budget Impact:</u> Fund 025: TBD Fund XXX: TBD Imp. Bond: TBD | <u>Scheduling:</u> Design Phase: Construction Phase I: | | |

| FUNDING | TOTAL FUNDING | FY 2018/19 BUDGET | FY 2019/20 BUDGET | FY 2020/21 BUDGET | FY 2021/22 BUDGET | FY 2022/23 BUDGET | FY 2023/24 BUDGET | FY 2024/25 BUDGET | FY 2025/26 BUDGET | FY 2026/27 BUDGET | BEYOND FY 2027/28 BUDGET |
|----------------------|---------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------------|
| Fund XXX | TBD | | | | | | | | | | |
| Imp. Bond | TBD | | | | | | | | | | |
| Fund 025 | TBD | | | | | | | | | | |
| TOTAL FUNDING | TBD | | | | | | | | | | |

| COST BREAKDOWN | TOTAL COST | FY 2018/19 PROJECTED EXPENSES | FY 2019/20 PROJECTED EXPENSES | FY 2020/21 PROJECTED EXPENSES | FY 2021/22 PROJECTED EXPENSES | FY 2022/23 PROJECTED EXPENSES | FY 2023/24 PROJECTED EXPENSES | FY 2024/25 PROJECTED EXPENSES | FY 2025/26 PROJECTED EXPENSES | FY 2026/27 PROJECTED EXPENSES | BEYOND FY 2027/28 PROJECTED EXPENSES |
|------------------------------|---------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------------|
| Land Acquisition | | | | | | | | | | | |
| Design & Environmental | \$ 175,000 | | \$ 25,000 | \$ 50,000 | \$ 50,000 | \$ 50,000 | | | | | |
| Construction | \$ 925,000 | | \$ 175,000 | \$ 250,000 | \$ 250,000 | \$ 250,000 | | | | | |
| District Administration & CM | | | | | | | | | | | |
| TOTAL COST | \$ 1,100,000 | | \$ 200,000 | \$ 300,000 | \$ 300,000 | \$ 300,000 | | | | | |

Note: The costs shown are represented in 2018 dollars. These values must be adjusted for inflation and to reflect increased project definition when developing budgets for future years.