Sussex Regional Recharge Facility

Phase 2

AWMI

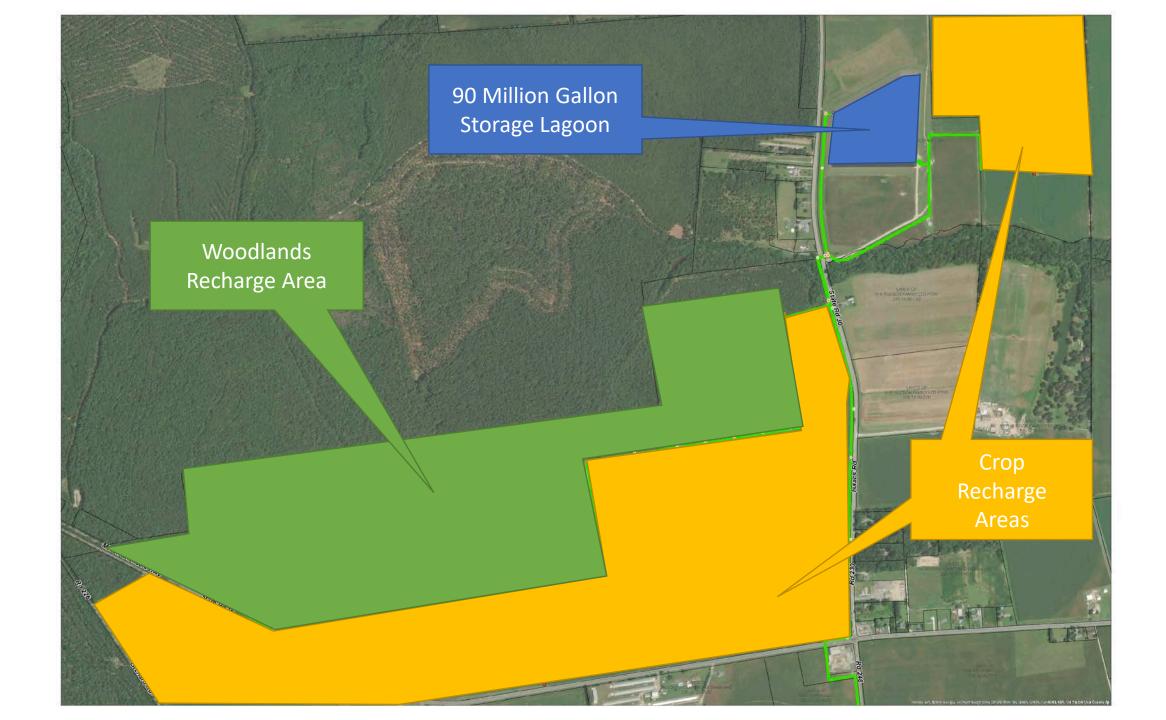
Public Hearing Presentation

February 23rd, 2022



Phase 1 - Existing Facilities

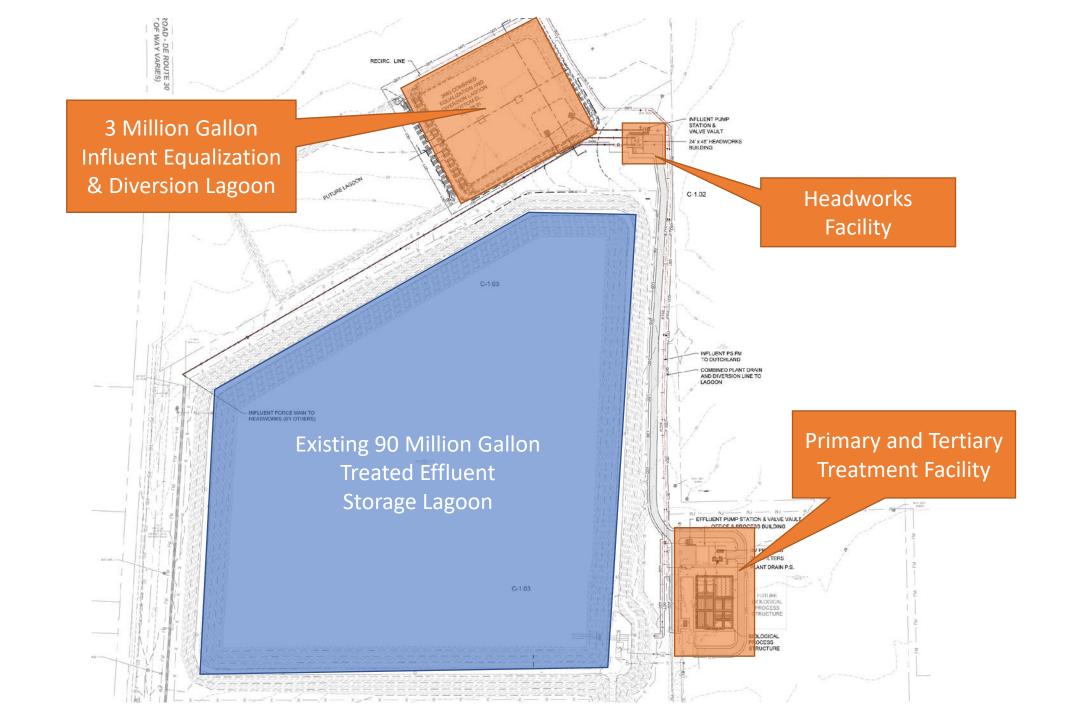
- 90 million gallon treated effluent storage lagoon
- High volume pump station
- Monitoring and sampling equipment
- Monitoring wells
- Over 380 acres of cropland for reuse
- Over 200 acres of woodlands for reuse
- Connecting pipelines, meters, controls and other equipment
- Solid set sprinklers and spray irrigators



Phase 2 - Proposed Facilities

- 625,000 gallon per day Primary Wastewater Treatment Facility
- 3 million gallon lagoon for both influent equalization and emergency diversion
- Headworks with screening equipment
- Tertiary Treatment Facility including:
 - Cloth media filtration
 - Ultraviolet (UV) disinfection
- Onsite lab and monitoring facility
- Construction is anticipated to take 18 months from receipt of permit





Phase 2 - Capabilities

- Extensive equalization volume which will allow for buffering of fluctuations in flow
- Process and treat up to 625,000 gallons per day of wastewater from residential, commercial and industrial sources
 - System has been designed to handle peak flows far in excess of this to account for weather related events
- Divert and hold up to four days of inflow in the event of an emergency
 - Volume also available for diversion of off spec flow from Allen Harim
- Meet all Unlimited Public Access treatment levels and reduce nitrogen concentrations to below the drinking water limit of 10 mg/l
- Extensive monitoring will allow for a fine degree of control by operators

Phase 2 – Environmental Benefits

- Reduce use of supplemental fertilization on agricultural fields
- Reclaim water that would have been wasted for beneficial agricultural use
- Reduce groundwater withdrawals for agricultural irrigation preserving aquifer resources
- Reduces or eliminates discharges to local streams, rivers and the Inland Bays
- Equalization and diversion facilities safeguard against impacts from weather events that might be detrimental to smaller treatment plants

What Will It Look Like?

- Facility has been placed on the SRRF site to minimize its profile from the public
 - In the back and behind the lagoon
- Primary treatment facility will consist of above ground concrete basins
- The buildings for the Headworks and Tertiary Treatment facilities will be pole barns like those used extensively on the surrounding farms
- A landscape buffer around the edge of the site will further obscure the view from the road

