

*Russian River
County
Sanitation
District*



Russian River County
Sanitation District/ Sonoma
County Water Agency's
Presentation to North Coast
Regional Water Quality
Control Board

Public Hearing on Settlement
Agreement and Stipulation of Entry
of Order, Order No. R1-2023-0049

About SCWA



- Sonoma County Water Agency (SCWA or Sonoma Water) manages and operates eight (8) different sanitation districts and zones, including being the contract operator and manager of RRCSD.
- **SCWA's Vision:** Ensuring resilient water resources now and for future generations.
- **SCWA's Mission:** To provide reliable water supply, wastewater management, and flood protection.
- **SCWA's Values include:**
 - **Community** - Supporting our community
 - **Environmental Stewardship** - Protecting and enhancing the natural resources in our care.
 - **Resilience** - Preparing for climate change and disasters.

Russian River CSD System



- The service area for the Russian River County Sanitation District (RRCSD) covers approximately 2,700 acres, and includes:
- The unincorporated areas of Rio Nido, Guerneville, Guerneville Park, and Vacation Beach
- **34.1 miles of gravity sewers**
- **4.2 miles of force mains and other pressure systems**
- 2,497 service lateral connections
- **Treatment plant cleans the community's wastewater to tertiary recycled-water standards and treats an average dry-weather flow of approximately 300,000 gallons per day.**

Collection System: Gravity Sewers

- Gravity Sewer
 - Generally, minimal infiltration and inflow (I&I)
 - Regularly maintained, inspected, and rated
 - Good condition
 - >20 year expected life
 - Identified problems addressed
 - Safeway sewer
 - Manholes
 - Lateral ordinance and inspection



Collection System – Force Mains

- Force Mains
 - Welded steel and ductile iron
 - Lift stations create hydrogen sulfide
 - Hydrogen sulfide corrodes mortar lining then the pipe itself
- Pipeline Breaks 2014 and 2021
- Seismic and corrosion risks
- High Priority
- Seeking \$20,000,000 of state funding to replace steel force mains



2019 Flooding

- 2019 overflows: Unrelated to collection system condition or maintenance.
- NPDES permit changes now allow increased flows to treatment plant
- Increased flows to treatment plant could have prevented Vacation Beach overflows for 2019 magnitude flood events



Peak Treatment Capacity

- The treatment plant has a sustainable treatment capacity of 3.5 MGD.
- Peak wet weather capacity is significantly higher.
- Sustainable capacity includes 50% to 100% redundancy for some key processes.
- Allowing treatment plant inflows of up 4.5 MGD should eliminate overflows during minor to moderate flood events.



Maintaining Treatment Plant Reliability

Seismic retrofit of clarifiers

Waste activated sludge pump
replacement

Spiral Screen Replacement with Electrical
and Controls

Belt Press Improvements

Filter fabric replacement

Return activated sludge pumps
replacement

Mixed liquor pump replacement



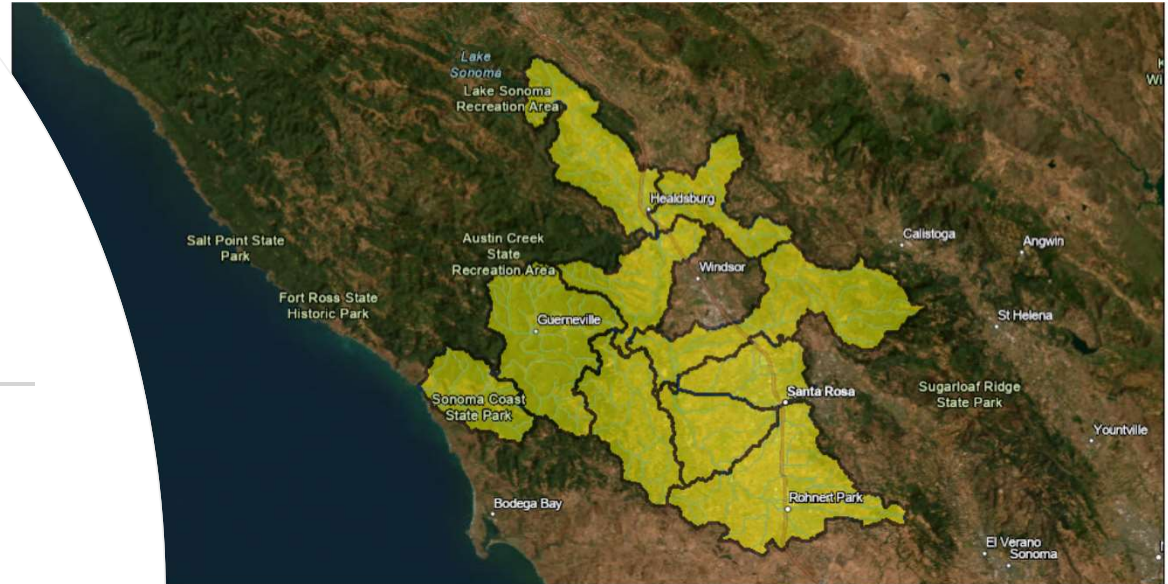
Future Plans

- Treatment Plant Master Plan
 - Identify pinch points
 - Increase sustainable peak capacity
- Sewer Evaluation and Capacity Assurance Plan
 - Flood event evaluations:
 - Collection system improvements
 - Treatment plant improvements
 - Capital Improvement Plan to prevent, reduce, and mitigate for spills, and protect public health.



Enhanced Compliance Action - Genesis

- Russian River Watershed Issues
 - Increase resilience to extreme weather events including SSOs
 - Recycled water shortage during droughts
 - Changes to the Potter Valley Project
 - High annual service charges
 - Russian River Pathogen Total Maximum Daily Load – Onsite Wastewater Treatment Systems
- Collaboration
 - Graton CSD, Forestville CWD, Occidental CSD, Lower River CAG
- Sonoma Water Values
 - Community, Environment, Resilience



Enhanced Compliance Action

West County Water Quality and Recycled Water Supply Feasibility Project

- Feasibility Study
 - Evaluate potential subregional and regional projects to improve:
 - Climate change resiliency
 - Water quality
 - Water supply reliability
 - Pathogen TMDL compliance/Onsite Wastewater Treatment System
 - Ratepayer costs
 - Evaluate a wide range of subregional to regional solutions



Enhanced Compliance Action

West County Water Quality and Recycled Water Supply Feasibility Project

- Stakeholder Process
 - Initial interviews
 - Outreach and education
 - Stakeholder Committee
 - Assess support for potential regional improvements



West County Water Quality and Recycled Water Supply Feasibility Project

- End Product:
 - A roadmap for feasible projects with community support.
 - Identify projects that could be advanced.
 - No project(s) yet identified or scoped and the ECA is not a commitment to any future projects.
 - RRCSD and Sonoma Water have a solid history of advancing and implementing beneficial projects within the region.



Requested Action Today

- The Settlement Document was signed in August of 2023 before going out to public comment.
- No changes were made to the settlement due to any comments.
- We request that the Regional Board approve the stipulated settlement to allow for finalization, payment, and ECA implementation.





Thank You!

