

2019 Compliance Update

January 16, 2020

Board of Public Utilities Meeting

Presented by Heather Johnson
Environmental Services Officer



OUR FUTURE IN EVERY DRÖP



Santa Rosa Water

Santa Rosa Water strives to protect public health and the environment by collecting and treating wastewater, recycling high quality water and promoting pollution prevention through compliance with all applicable local, state and federal rules, regulations and permit requirements.



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Overview

- **Applicable Rules, Regulations, Permit Requirements and 2019 Non-Compliance Events:**
 - Sanitary Sewer Collection System
 - Wastewater Treatment and Recycled Water
 - Air Quality and Emissions
- **Emerging Regulatory Issues and Opportunities**

Sanitary Sewer Collection System

2019 Non-Compliance Summary

Non-compliant Event	Cause
2 Sanitary Sewer Overflows	50-year storm event resulting in system flow exceedance.

Applicable Rules and Regulations

- Statewide General Permit for Sanitary Sewer Systems – Santa Rosa Sanitary Sewer Management Program (SSMP)



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Wastewater Treatment and Recycled Water

Applicable Rules and Regulations

- LTP NPDES Permit and Water Reclamation Requirements
- California Code of Regulations: Title 22 Recycled Water Criteria
- State Water Board General Order for Biosolids

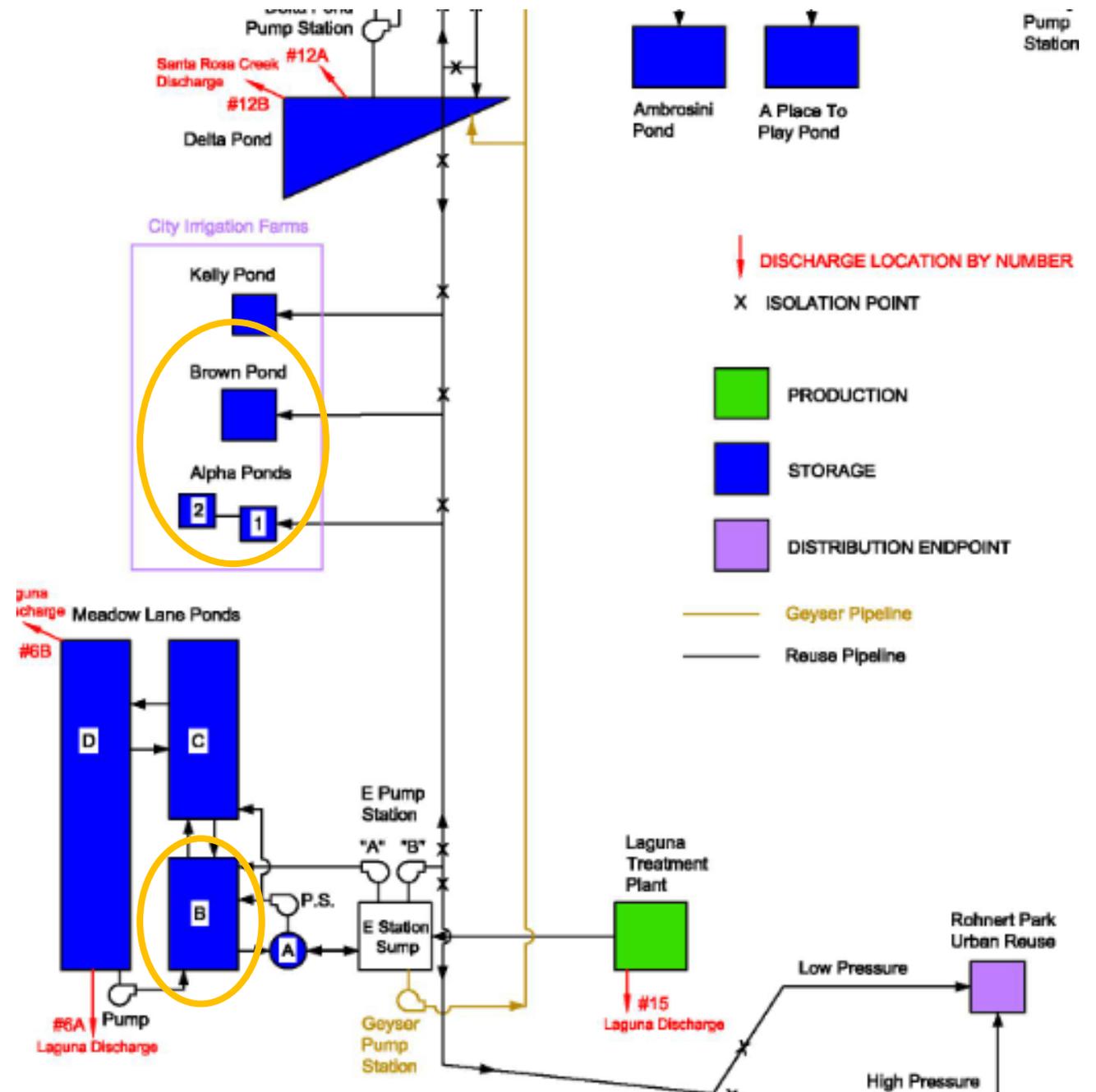
2019 Non-Compliance Summary

Non-compliant Events	Description	Cause
Geysers Distribution System	Estimated 75,000 gallons	Leaks from expansion joints
Reclamation System	Estimated 52,000 gallons	Leaking valves, over-irrigation, pipeline breaks, pond overflow
Ultra-Violet Disinfection	41 Hours and ~120 million gallons	50-year storm event resulting in system flow exceedance and under-disinfection



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Off Spec Water Storage



Air Quality and Emissions

Applicable Rules and Regulations

- Title V Air Quality Permit (LTP) – Federal EPA
- California Air Resources Board (Regional & Local) – State of CA
- Bay Area Air Quality Control District Permits to Operate (Regional & Local) – Bay Area Region

2019 Non-Compliance Summary

Non-compliant Events	Description	Cause
Hydrogen Sulfide (H ₂ S) Violation	Gas skid had an H ₂ S level over the 50 part per million limit.	Laguna Treatment Plant Iron Sponge removes H ₂ S and the Carbon vessels remove siloxane compounds from digester gas prior to combustion. The iron sponge was short-circuiting causing decreased removal efficiency.



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Emerging Regulatory Issues and Opportunities

- Permit Renewals: LTP NPDES Permit, Title V Air Permit
 - Russian River Pathogen TMDL – Completed 2019
 - Laguna de Santa Rosa Nutrient TMDL
 - Transition to State General Order for Recycled Water Use
 - PFAS and PFOA
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Questions?

Thank you.



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