

Arcata Wastewater Treatment Facility NPDES Permit Renewal

Item No. 3

Order No. R1-2019-0006

Justin McSmith, NPDES Unit, Water Resource Control Engineer

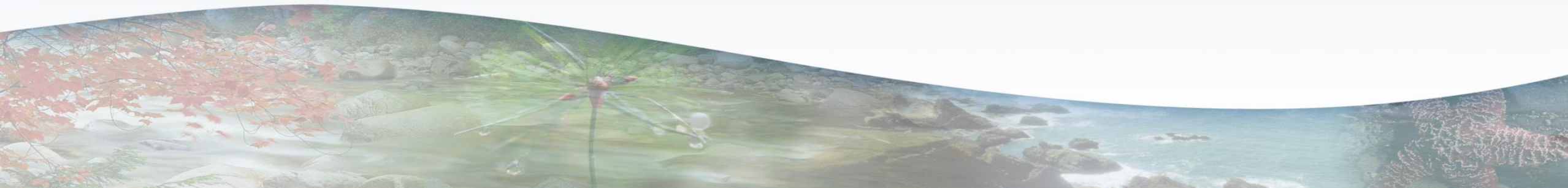
Santa Rosa

October 17, 2019



Introduction

- History of Treatment and the 2012 NPDES Permit
- New Requirements in the Proposed Permit
- Phasing of the Proposed Upgrade Project
- 2019 Time Schedule Order
- Public Comments and Staff Response
- Water Quality Benefits
- Recommendation



City of Arcata

- Established in 1860
- Serves a Population of 18,695
- Humboldt Bay Hydrologic Area



Current Treatment



Arcata Marsh Wildlife Sanctuary



2012 NPDES Permit



Hauser Marsh in the AMWS

New 2019 Permit Requirements

- Statewide Bacteria Provisions
- Statewide Mercury Provisions
- Ammonia Effluent Limitations
- UV Disinfection Requirements
- Disaster Preparedness Plan
- Completion of Proposed Upgrade Project



Proposed Upgrade Project - Phase One

- Construct Discharge Point 003
- Construct UV Disinfection System
- 001 Emergency High Flow Discharge Only
- Completed by June 30, 2022



Proposed Upgrade Project - Phase Two

- Oxidation Ditch
- Two Secondary Clarifiers
- Rehabilitation of Solids Processing
- Completed by June 30, 2024



Time Schedule Order

- Interim Effluent Limitations at Discharge Point 001 and 003
- Two Compliance Schedules
- Final Compliance June 30, 2024



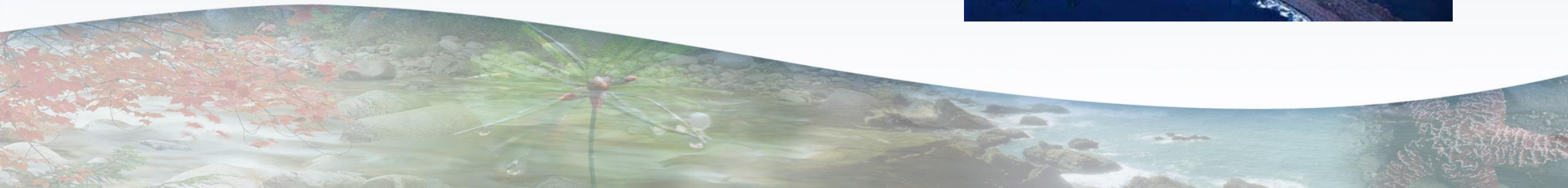
Public Comment

- UV Disinfection UVT Requirement
- Enterococci Monitoring Extension
- Restructuring of the Effluent Limitations and Discharge Specifications
- Equivalent to Secondary Effluent Limitation Recalculation
- Disaster Preparedness Plan Extension



Water Quality Benefits

- Diffuse Surface Discharge
- Chemical Free Disinfection
- Improved Secondary Treatment



Recommendation

Adopt NPDES Order No. R1-2019-0006

Justin McSmith

Water Resource Control Engineer

NPDES Wastewater and Storm Water Unit

Justin.McSmith@waterboards.ca.gov

