



# **Cold Water Concentrated Aquatic Animal Production (CAAP) Facility New General NPDES Permit**

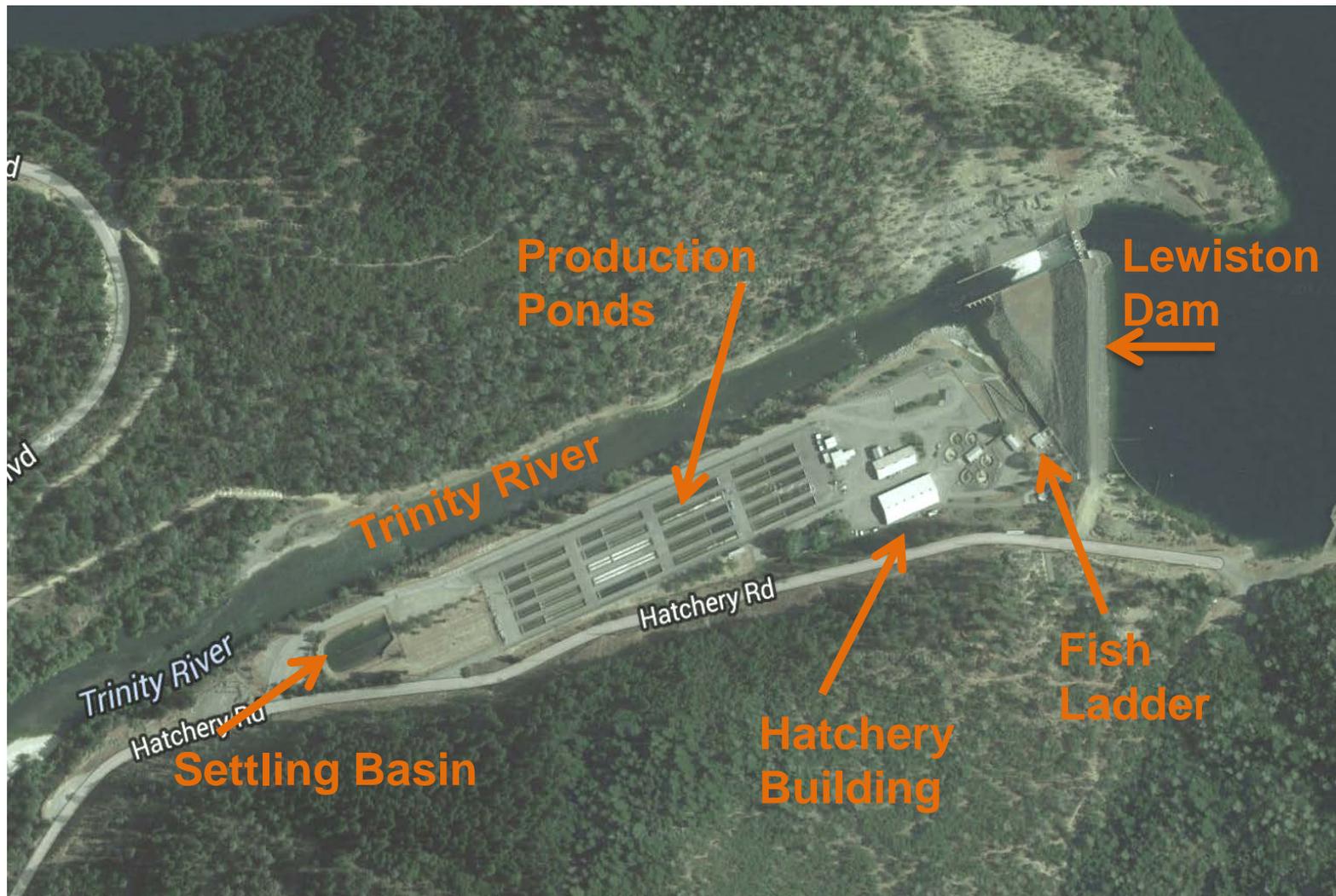
Item 6

November 19, 2015

Lisa Bernard

North Coast Regional Water Quality Control Board

# CAAP Facilities Overview



# Multiple Discharge Points



# Existing Permitted Facilities

Permittee(s)	Facility	Individual NPDES Order No.	Receiving Water
United States Army Corp of Engineers (ACOE) and California Department of Fish and Wildlife (DFW)	Coyote Valley Fishery Mitigation Facility	97-60	Russian River
ACOE and DFW	Warm Springs Fish Hatchery	97-61	Dry Creek, tributary to the Russian River
Pacificorp and DFW	Iron Gate Hatchery	R1-2000-17	Klamath River
United States Bureau of Reclamation and DFW	Trinity River Salmon and Steelhead Hatchery	R1-2000-18	Trinity River
DFW	Mad River Fish Hatchery	R1-2005-0036	Mad River



# CAAP Wastes

- Residual Feed
- Feces
- Antibiotics
- Disease Treatment Chemicals
- Cleaning Residuals



# U.S. EPA Effluent Limit Guidelines (ELGs)

- No Numeric Effluent Limits
- Best Management Practices (BMP) Plan
  - Solids Control
  - Material Handling and Storage
  - Maintenance
  - Records and Training

# Juveniles in Hatchery Tanks



# Retained Numeric Effluent Limits

Existing Individual NPDES Requirements	Proposed General NPDES Requirements
Effluent Limits Total Suspended Solids	No Change
Effluent Limits Settleable	No Change
Effluent Limits for pH at Mad River, and Trinity River	Effluent Limits for pH at all CAAP Facilities



# Basin Plan Hatchery Policy

- Adopted in 1989
- Allows Year Round Discharges to Surface Water
  - No Adverse Impacts to Beneficial Uses
  - No Discharge of Cleaning Waste
  - No Discharge of Disease Treatment Chemicals



# Public Comment

- Opened for Public Comment 64 Days
  - May 14 through June 26, 2015
  - Extended through July 17, 2015
- California Department of Fish and Wildlife
  - Approximately 75 Comments
- PacifiCorps
  - Remove Iron Gate Hatchery From General Permit



# DFW Comment

- Chemical Use Description
  - Remove
    - Copper Sulfate
  - Add
    - Ivermectin
    - SLICE (emamectin benzoate)



# DFW Comment

- Concern with Current Detection Levels
- Request for Chemical Specific Limitations



# Response

- No Need to Establish Numeric Limits
- Existing Hatcheries Currently Compliant
- Hatchery Policy Clarification
  - Do Not Cause Toxicity
  - Do Not Exceed Water Quality Objectives
  - Do Not Impair Beneficial Uses



# Reduction and Verification Monitoring and Reporting Plan

- Special Study
- Must be Designed to Verify:
  - Reduction of Chemical Use to Extent Feasible
  - Whole Effluent Toxicity
  - Compliance with Water Quality Objectives
  - BMP Effectiveness
- Requires Executive Officer Concurrence



# Summary Considerations

- Four Outdated NPDES Permits
  - Similar Operations
- Effluent Limitations
  - No Change
- U.S. EPA Effluent Limit Guidelines (ELGs)
  - Best Management Practices Plan
- Hatchery Policy
  - Reduction & Verification Monitoring Plan



# Recommend Adoption of General Permit as Proposed

