

# PROPOSED GENERAL ORDERS FOR OIL FIELD DISCHARGES TO LAND



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# Presentation Overview

- Background
- General Orders
- Issues

# Produced Water Ponds

- Facilities vary in volume and quality of waste received



# Produced Water Pond Plan

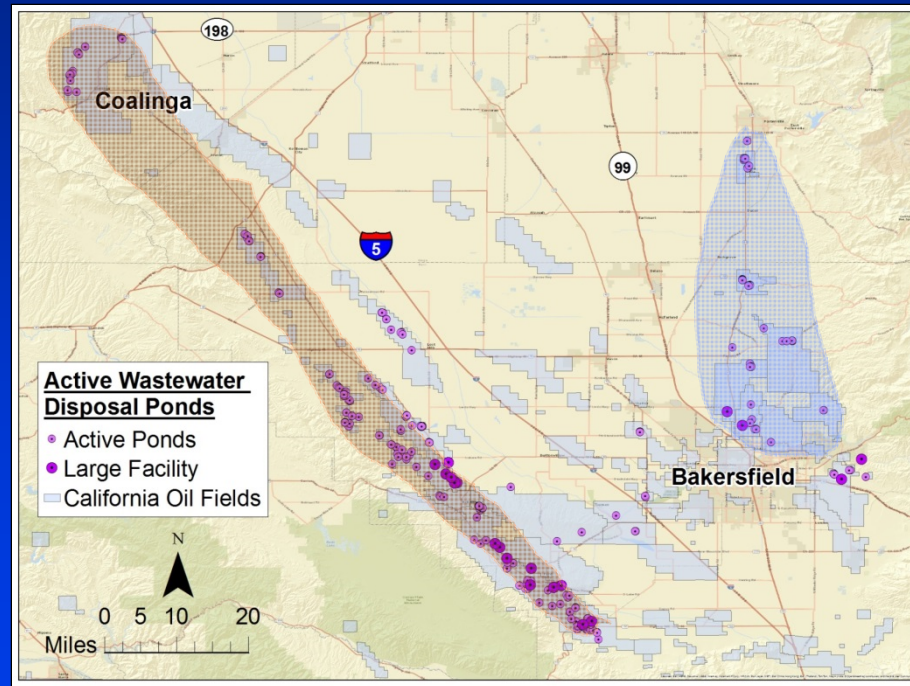
- Pond inventory
- Field inspections
- Enforcement Orders
- Waste Discharge Requirements

# The General Orders

- Discharges of produced wastewater to land
  - Ponds
  - Dust control and construction activities
  - No irrigation of crops for human consumption
- Discharge of solids as road mix within facility
- Existing facilities

# Why Three Orders?

- Three basic discharge scenarios
- Quality of discharge
- Quality of groundwater



# General Order One

- Wastewater does not exceed Basin Plan maximum salinity limits
  - EC - 1,000  $\mu\text{mhos/cm}$
  - Chloride - 200 mg/L  
(175 mg/L in the White Wolf Subarea)
  - Boron - 1 mg/L

# General Order Two

- Wastewater exceeds Basin Plan maximum salinity limits
  - Demonstrate discharge will not affect beneficial uses
  - Degradation in best interest and implement BPTC



# General Order Three

- Discharger shall demonstrate either:
  - natural groundwater quality such that de-designation of beneficial uses is appropriate, OR
  - first encountered fluid beneath facility is not groundwater and the discharge will not migrate to groundwater that supports beneficial uses

# Prohibitions

- Hazardous waste
- Pollution or nuisance
- Well stimulation fluids
  - Hydraulic Fracturing
  - Acid Fracturing
  - Acid Matrix Stimulation
- Produced water from stimulated wells

# Provisions

- Produced wastewater for dust control and soil compaction
  - Produced wastewater is disposed on-site
  - Replaces the use of fresh water
- Solid wastes for road surfacing
  - No runoff to surface waters

# Monitoring and Reporting

- Groundwater monitoring
- Facility monitoring
- Wastewater monitoring
- Revision with technical justification and executive officer approval

# Application Process

- Notice of Intent (NOI)
  - Complete State Form 200
  - Technical Report
    - Waste Characterization
    - Hydrogeological Characterization
    - Demonstrate protection of groundwater
    - Facility Waste Management Plan(s)
  - Application Fee
- Notice of Applicability (NOA)

# Issues

- Prohibition of fluids from a stimulated well
- Beneficial uses of groundwater
- Scope of monitoring constituents
- Small dischargers
- Pond prohibition requests

# Questions ?

