



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

AGENDA: 4

United States Environmental Protection Agency (US EPA) Climate Pollution Reduction Grant

**Stationary Source and Climate Impacts Committee
September 13, 2023**

**Abby Young
Climate Protection Manager
ayoung@baaqmd.gov**

Outline



- Grant Overview
- Planning Process
- Budget
- Timeline
- Recommended Action

Requested Actions



Action item for the Committee to consider recommending to the Board of Directors to:

1. Authorize the Executive Officer/APCO to accept, obligate, and expend up to \$1,000,000 from the United States Environmental Protection Agency (US EPA) for a Climate Pollution Reduction Grant; and
2. Authorize the Executive Officer/APCO to enter into all agreements to accept, obligate, and expend this funding for amounts up to \$100,000.



Funding for Climate Planning

- States get \$3 million
- Metropolitan Areas get \$1 million - Bay Area has 2 designated grant regions:
 - Central: Alameda, Contra Costa, Marin, San Francisco, San Mateo counties
 - South: Santa Clara and San Benito counties

Funding for Project Implementation

- Nationally-competitive pool of **\$4.6 billion**
- To implement measures in the plan
- Must benefit low-income, disadvantaged “frontline” communities

Grant Overview (cont.)



The Opportunity Before Us

Funding

Regional approach builds on existing work

Elevate frontline communities' priorities

Innovation

Planning Process



Phase 1: Priority Climate Action Plan (due Mar 1, 2024)

- Targeted plan focusing on 1-2 priority sectors
- Short list of high-priority GHG reduction measures

Phase 2: Comprehensive Climate Action Plan (due Sept 2025)

- GHG inventory, projections and targets covering all sectors
- Quantified GHG and co-pollutant reductions

Supportive Analyses

- Benefits and disbenefits to frontline communities
- Funding availability and gaps
- Workforce impacts

Planning Process (cont.)



Advisory Work Group – meets regularly to discuss and make decisions on key aspects of the project

- Bay Area Air Quality Management District
- Bay Area Regional Collaborative
- Bay Area Regional Energy Network
- Metropolitan Transportation Commission/Association of Bay Area Governments
- Alameda County (StopWaste)
- Contra Costa County
- Marin County
- San Mateo County
- City of Berkeley
- City of Oakland
- City and County of San Francisco

Planning Process (cont.)



Advisory Work Group – Ex Officio members

Sonoma County
Napa County
Solano County

Not included in the EPA's grant geography but will be included in the planning process and able to compete for the \$4.6 billion in implementation funding.

Budget



Cost	EPA Grant
Air District staff (salary + fringe + admin)	\$286,000
Travel	\$7,000
Sub-award (BayREN)	\$240,000
Contracts	\$467,000
GHG emissions analysis	\$200,000
Co-pollutant analysis	\$189,000
Workforce analysis	\$50,000
Funding assessment	\$28,000
TOTAL	\$1,000,000



Grant deliverables

- Priority Climate Action Plan (due March 1, 2024)
- Comprehensive Climate Action Plan (due September 2025)
- Status Report (due June 2027)

Requested Actions



Action item for the Committee to consider recommending to the Board of Directors to:

1. Authorize the Executive Officer/APCO to accept, obligate, and expend up to \$1,000,000 from the United States Environmental Protection Agency (US EPA) for a Climate Pollution Reduction Grant; and
2. Authorize the Executive Officer/APCO to enter into all agreements to accept, obligate, and expend this funding for amounts up to \$100,000.

Questions/Discussion





BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

AGENDA: 5

Amendments to Regulation 8: Organic Compounds, Rule 8: Wastewater Collection and Separation Systems

**Stationary Source and Climate Impacts Meeting
September 13, 2023**

**Robert Cave
Senior Air Quality Engineer
rcave@baaqmd.gov**

Presentation Outcome



- Provide information and updates on the development of amendments to Regulation 8: Organic Compounds, Rule 8: Wastewater Collection and Separation Systems (Rule 8-8).

Presentation Outline



- Background
- Recent Rule Development History
- Draft Amendments
- Public Comments
- Next Steps

Presentation Requested Action



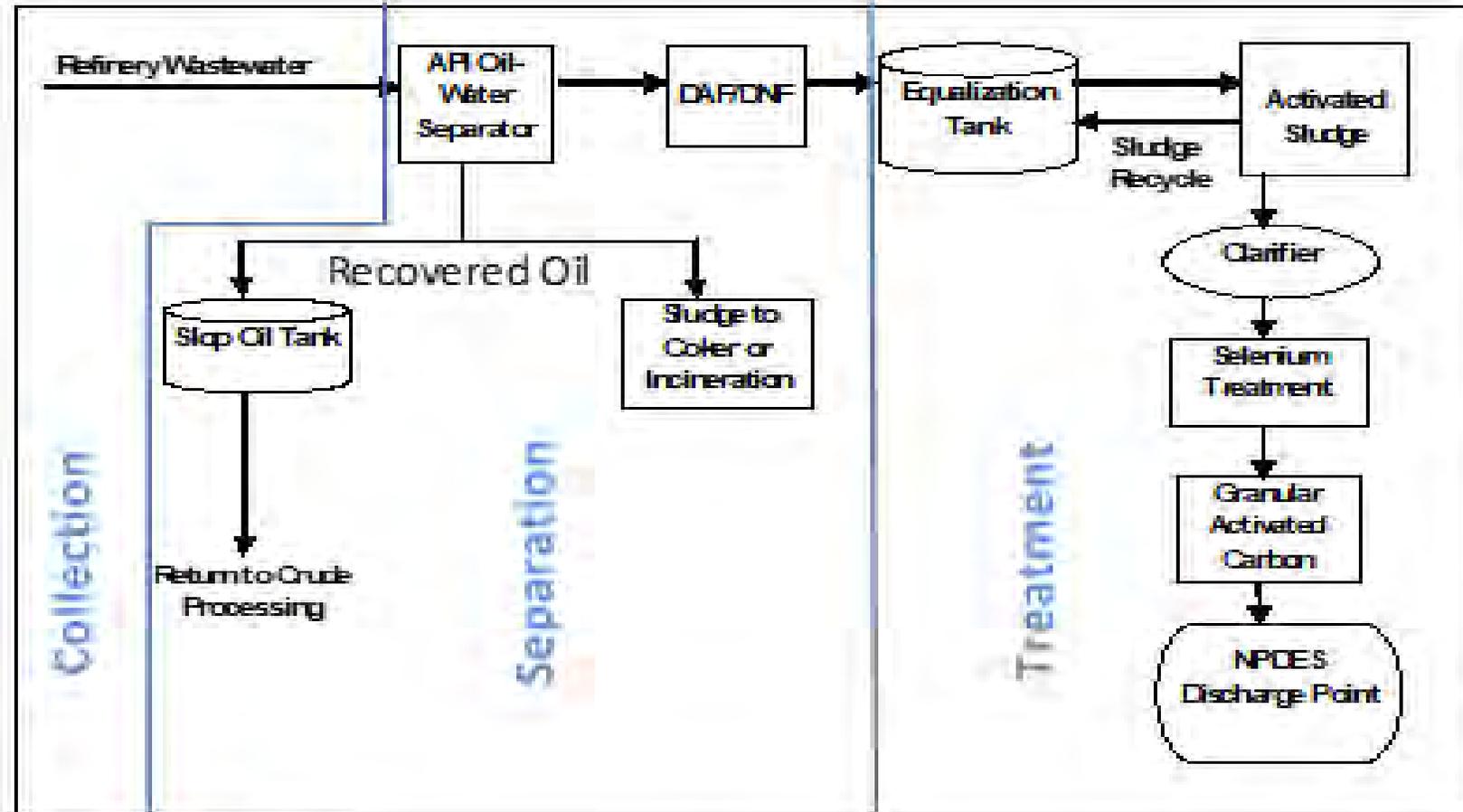
- None; informational item only

Background



- Assembly Bill (AB) 617 Expedited Best Available Retrofit Control Technology (BARCT) Implementation Schedule – Identified potential rule development efforts to evaluate and implement BARCT at refinery wastewater treatment systems
- Potential source of substantial reductions of organic compound emissions, as well as methane and toxic air contaminants
- Rule 8-8 last amended over 17 years ago
- Developing amendments to reduce volatile organic compound and methane emissions (total organic compound emissions) from these systems

Simplified Wastewater Treatment System



Source: U.S. EPA

Emissions from Wastewater Collection and Treatment Systems



Two primary sources of emissions — volatilization and air entrainment.

1. Volatilization: When wastewater is exposed to the atmosphere it allows compounds to biodegrade and volatilize into the air.
2. Air Entrainment: When liquid containing VOCs is transmitted in the presence of air, that air can be entrained in the liquid, which can be emitted later in the process.

Rule Development Process



- **March 2021** – Knowledge assessment phase of the Air District's internal Organic Emission Estimation Project completed
- **Q2 2022** – Refinery data requests to solicit information to ensure consideration of the best available source information and emissions estimates
- **Sept 2022** – Update to Stationary Source and Climate Impacts Committee
- **May 2023** – Draft amendments and Preliminary Staff Report published
- **June 2023** – Comments received on draft amendments
- **Q3 2023** – Stakeholder engagement including meeting with all commenters

Draft Amendments



Improve Leak Detection and Repair Requirements

- Revise leak standard from wastewater collection and separation systems to include methane along with other organic compounds (total organic compounds)
- Vapor tight emissions standard of 500 parts per million by volume
- Strengthen monitoring protocol for repairing leak excesses
- Expand reporting requirements for major leaks

Draft Amendments (cont.)



Improve Enforceability

- Strengthen identification coding requirements for wastewater collection and separation components

Limit Discharges into System

- Limit discharge of free phase organic liquid streams into collection system
- Prohibit discharge of free phase organic liquid streams into wastewater system

Draft Amendments (cont.)



Update Testing and Detection Methods

- Update requirements to reflect most updated technology and methods for detecting total organic compounds

Expand Sampling and Monitoring Requirements

- Require sampling and monitoring to improve characterization of emissions related to secondary treatment system (backend)

Comments Received



- Questions and clarifications on enforcement of requirements
 - Inclusion of methane in leak detection measurements
 - Discharge prohibitions and limitations
 - Compliance timeline upon adoption
 - Inclusion of new test methods and source testing requirements
- Questions regarding how odors will be addressed in rule enforcement and compliance

Next Steps



- 4th Quarter 2023 (Planned)
 - Release of Proposed Amendments to Rule 8-8 and supporting materials for public comment including CEQA documentation and socioeconomic impact analysis as appropriate
 - Public hearing for consideration by Board of Directors

Feedback Requested/Prompt



- Questions and comments?