



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

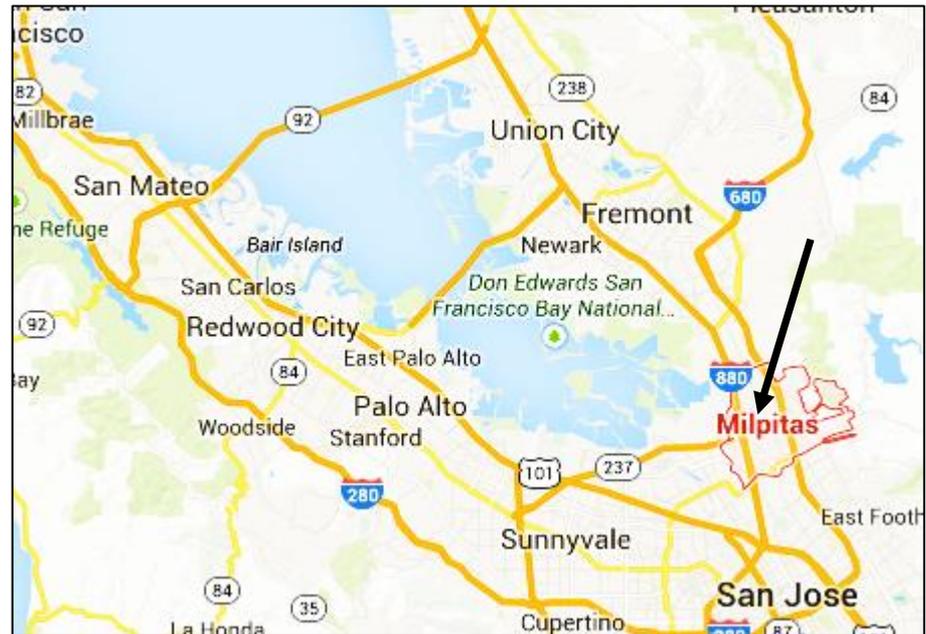
Odor Issues and Air District Actions in the Milpitas Area

Stationary Source Committee
March 16, 2015

Wayne Kino
Director of Compliance & Enforcement

Outline

- Background
- Odor Sources
- Air District Role
- Investigation
- Next Steps

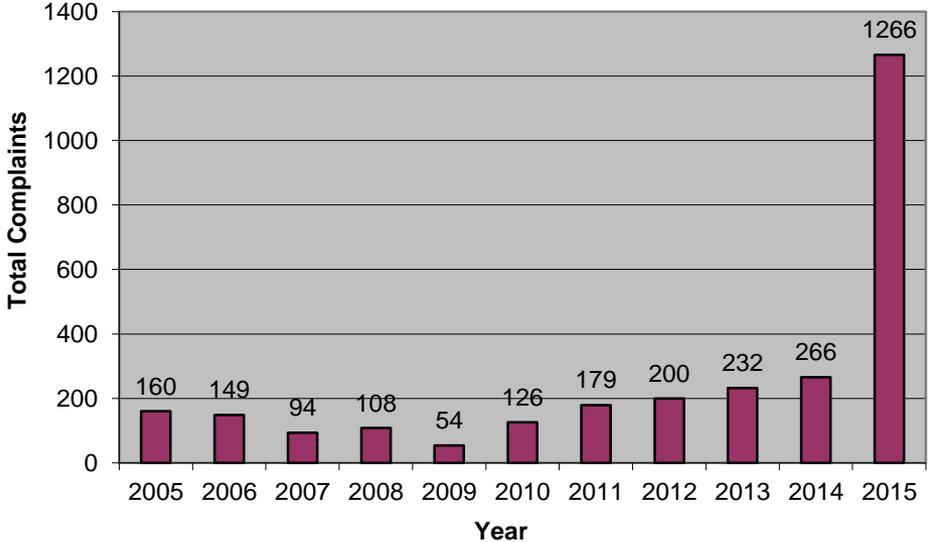




Background

- More than 1500 odor complaints received from the greater Milpitas area in 3 months
- Several odor sources in area

Milpitas Odor Complaint Totals by Year





Facilities and Sources



LEGEND

-  A: Newby Island Resource Recovery Park (Newby Island Sanitary Landfill and Recyclery)
-  B: Newby Island Compost Facility
-  C: Zero Waste Energy Development Company (ZWED)
-  D: San Jose/Santa Clara Regional Wastewater Facility
-  E: Surrounding bay lands (salt ponds, marshes, conservation areas, etc.)

Facilities and Sources

(Continued)

A. Newby Island Resource Recovery Park



B. Newby Island Compost Facility



C. Zero Waste Energy Development (ZWED)

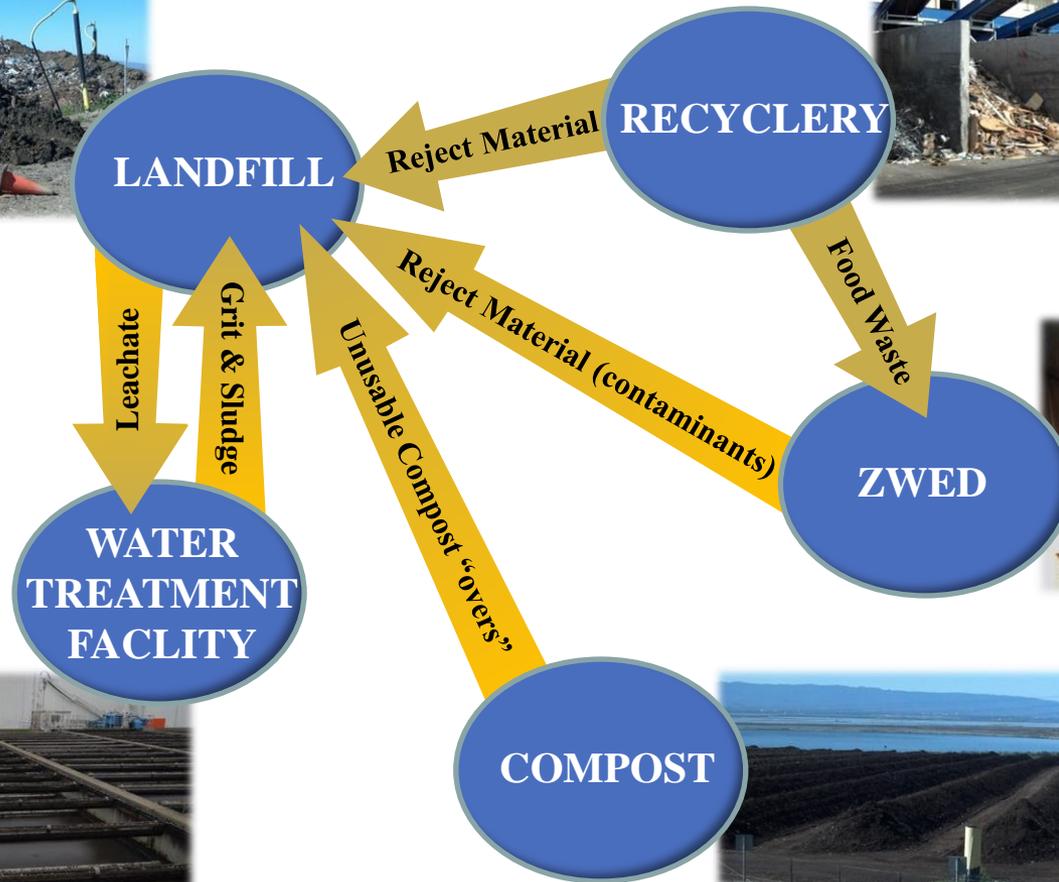


D. San Jose – Santa Clara Regional Wastewater Facility



Facilities and Sources

(Continued)





Air District Role

- Permitting Authority
- 17 CCR § 95460 - Methane Emissions from Municipal Solid Waste Landfills (Greenhouse Gas Rule)
- Regulation 8 Rule 34 – Solid Waste Disposal
- Regulation 7 – Odorous Substances
- CH&SC §41700 - Public Nuisance
 - Compost odor exemption



Investigation

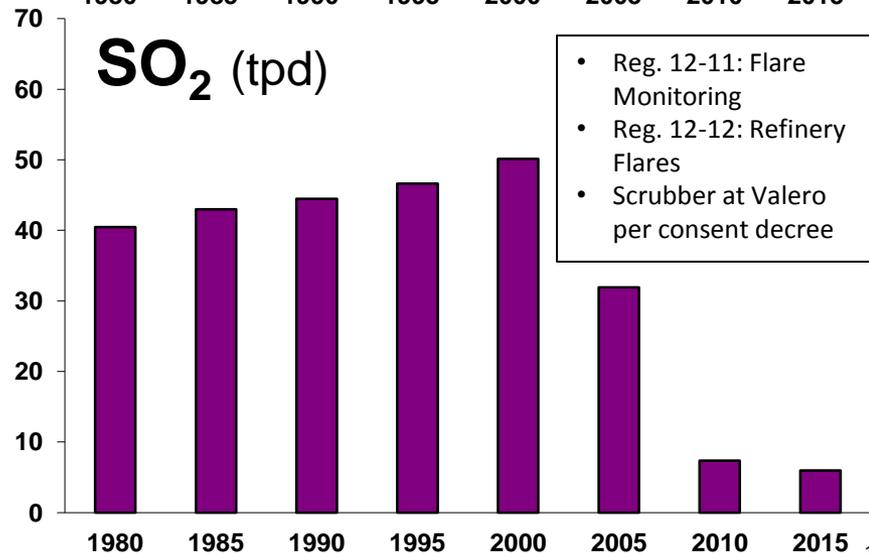
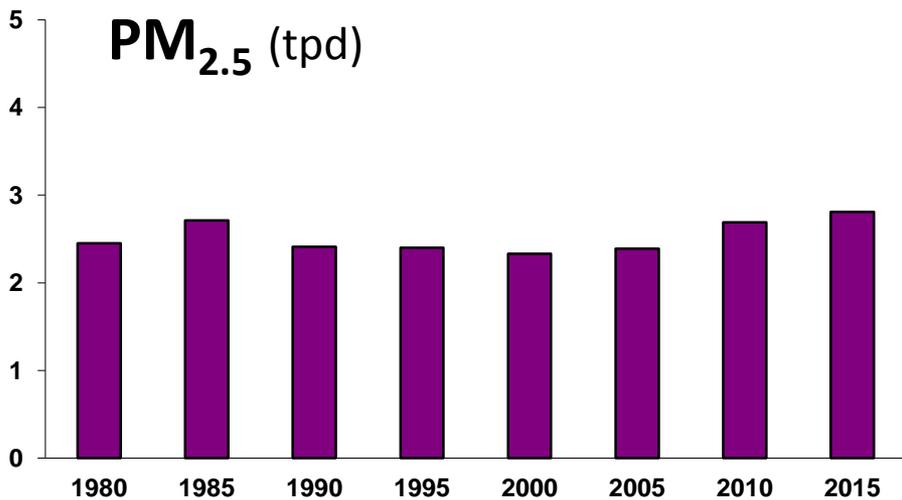
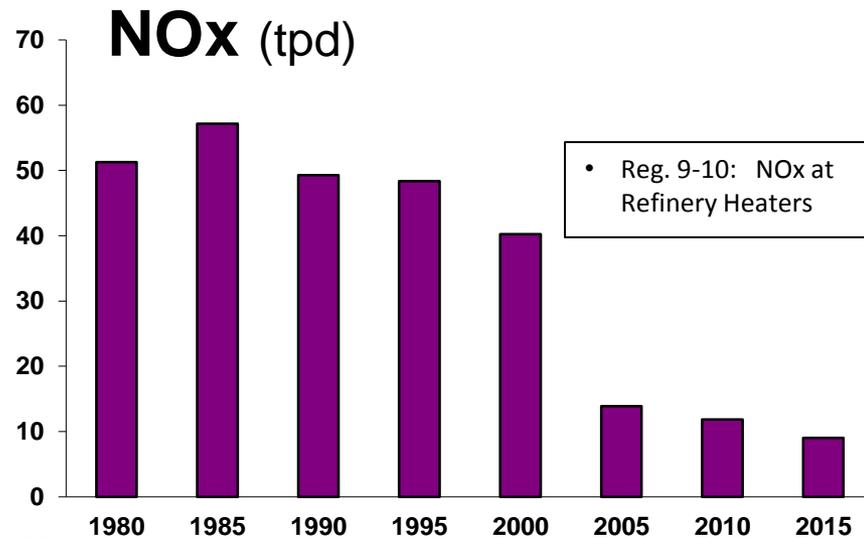
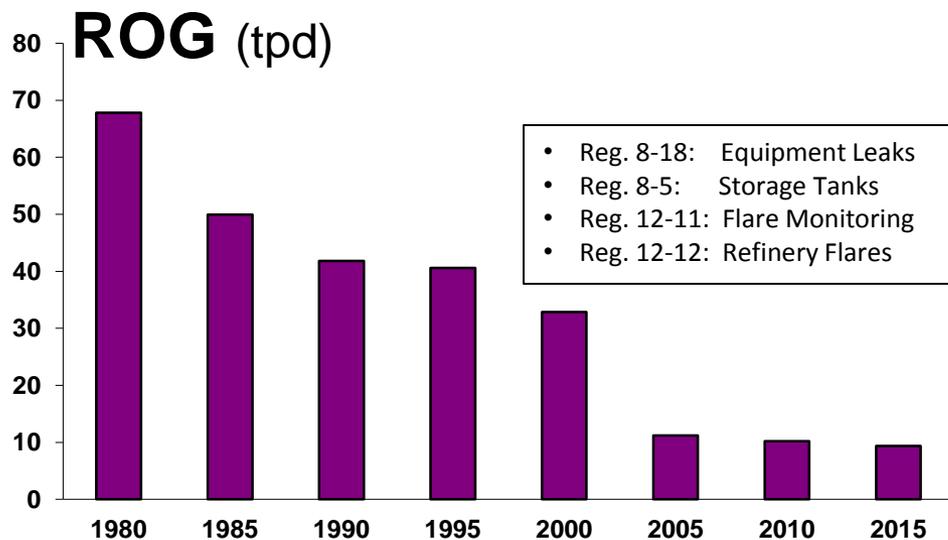
- **Complaint Process:**
 - 1-800-334-ODOR (calls accepted 24/7)
 - Inspector response to all odor complaints
 - Rigorous confirmation process
- **Ongoing investigation has yielded results:**
 - Enforcement actions
 - Identification of odor sources within facilities
 - More thorough understanding of facilities' interdependent relationships and sharing of odorous materials
 - Improvements to facility operations



Next Steps

- Continue investigation and complaint response
- Conduct a public meeting on April 23, 2015
- Facility Cooperation and Response
 - South Bay Odor Stakeholders Group
 - Areas Odor Study
 - Odor Hotline and Patrols
- Amend Regulation 7, Odorous Substances

Refinery Emission Trends 1980-2015 and Main Causes of Reductions



Board Actions Requiring Emissions Reductions at Refineries 1992-2013

Date	Reg.-Rule	Description	Pollutant
3/92, 1/98, 11/02, 1/04	8-18	Equipment leaks at refineries	ROG
3/92	8-22, 8-25	Leaks from valves and flanges	ROG
1/93, 12/99, 10/06	8-5	Storage tanks	ROG
1/94, 12/10, 10/13	9-10	Boilers, steam generators, process heaters	NO _x
12/97, 3/98, 12/05	8-28	Leaks from pressure relief valves	ROG
6/03	12-11	Refinery flare monitoring	All
1/04	8-10	Process vessel depressurization	ROG
9/04	8-8	Refinery wastewater separators	ROG
7/05, 4/06	12-12	Refinery flares	All
12/05	8-44	Marine loading operations	ROG
7/07	9-8	Stationary internal combustion engines	NO _x , PM
4/09	8-33, 8-39	Gasoline bulk terminals	ROG
1/12	8-52	Marine loading operations	ROG



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Regulations to Track and Mitigate Emissions from Petroleum Refineries Regulation 12, Rules 15 and 16

Stationary Source Committee
March 16, 2015

Eric Stevenson
Director of Meteorology, Measurement and Rules



Regulatory Approach

- Regulation 12, Rule 15 (12-15) – Petroleum Refining Emissions Tracking Rule
- Regulation 12, Rule 16 (12-16) – Petroleum Refining Emissions Analysis, Thresholds and Mitigation Rule



12-15 Elements

- ***Annual emissions inventories*** of all regulated air pollutants based on upgraded methods, including emissions from cargo carriers
- ***Petroleum Refinery Emissions Profile (PREP)***; require that on-going inventories include comparisons with PREP
- ***Crude oil composition characteristics*** with annual emissions inventories (e.g. sulfur, nitrogen content, API gravity, Total Acid Number)
- ***Health Risk Assessments (HRA)*** with enhanced emissions inventories and revised OEHHA HRA guidelines
- ***Enhance fence line monitoring systems and establish community air quality monitoring systems***

A background image of a lush forest with tall trees and ferns, partially obscured by a blue gradient bar at the top.

Goals of 12-16

- Identify emissions increases of criteria pollutants, Toxic Air Contaminants (TAC) and greenhouse gases (GHG) based on PREP
 - Require causal analysis of any increase
 - Require emissions mitigation plan to be submitted for TAC and criteria pollutants
 - Require public review of emissions mitigation plan
- This will help ensure that crude oil composition changes do not increase emissions
- This will help identify processes that contribute to emissions increases



Elements of 12-16

- ***Causal Analysis*** of criteria pollutants, GHG and TACs if trigger levels are exceeded
- ***Mitigation plan*** to bring criteria pollutants and TACs below trigger levels within two years
- ***Identification of Control Technology (Audit)*** of all sources if reductions not achievable within two years to identify potential to further reduce emissions
- ***Updates to mitigation plan*** if proposed progress is not made within two year window
- ***Health Risk Assessments (HRA)*** updates if risk increases above trigger levels



Issues Raised

- Community stakeholders have made comments on Regulation 12-16 regarding the following areas:
 - Crude oil throughput
 - GHG emissions
 - Permitting moratorium



Next Steps

- Hold public workshops for 12-15 and 12-16
 - Benicia, Martinez, Richmond and San Francisco during the week of March 16th
 - San Francisco workshop will be webcast
- Complete staff report, including responses to comments and analysis of socioeconomic and environmental impacts
- Present 12-15 and 12-16 to Board for consideration and potential adoption in the 2nd quarter of 2015