

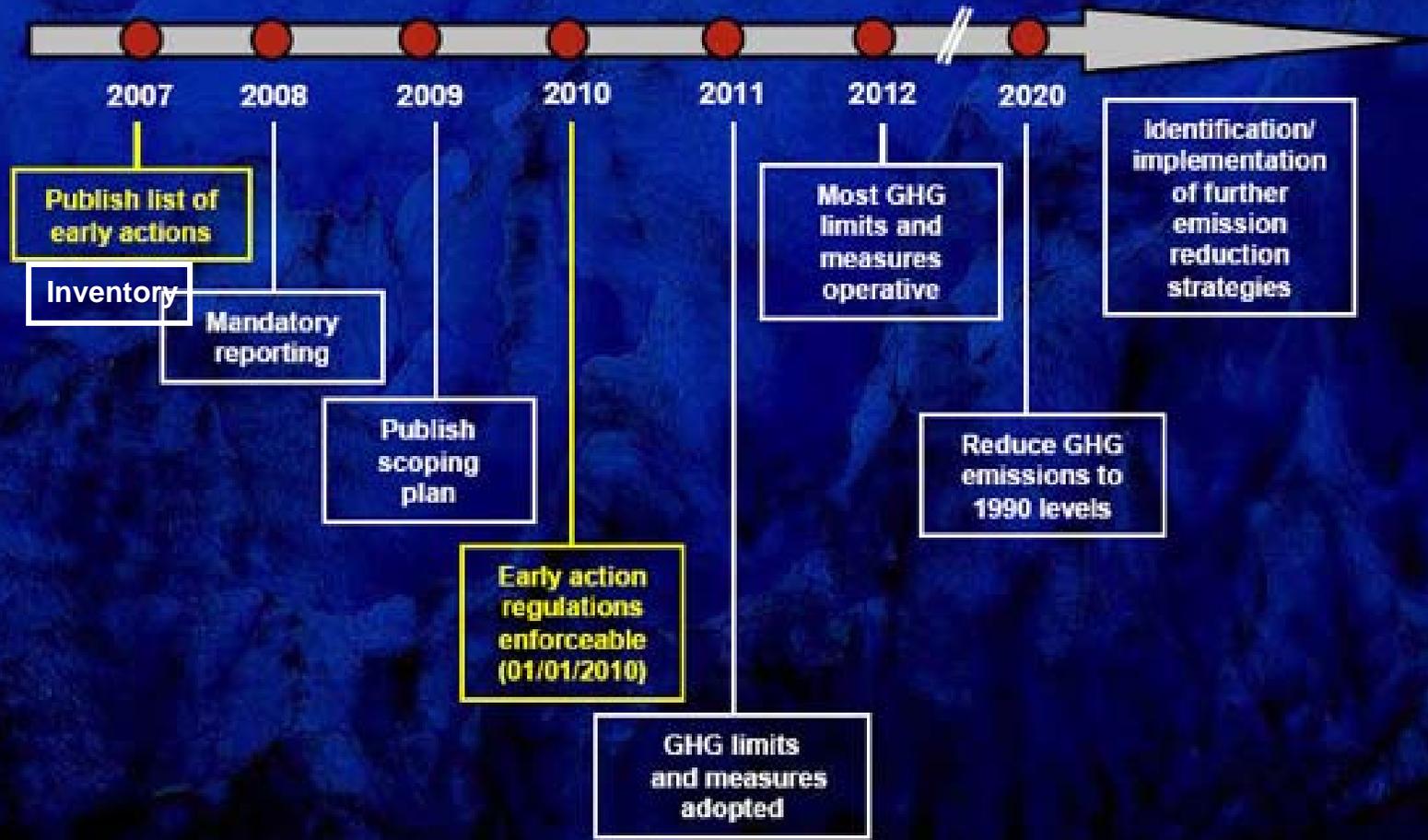
# Understanding AB32: Intent and Impact Municipal Landfills

Frank Caponi – *LACSD*

Ray Purtee – *City of San Diego*

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# AB 32 Implementation



# **AB 32: California Global Warming Solutions Act**

## **Early Action - Landfills:**

- **Proposed Early Action:**
  - **Address uncontrolled landfills (6% of waste in place in California)**
  - **Increased methane capture at active landfills**

# AB32 – EARLY ACTIONS

- Landfill Methane Reduction Measure
  - May be a separate program from EPA NSPS and local district regulations
  - Will be significant additional effort (as proposed)
    - Proposed lower 500 ppm to 200 ppm threshold
    - More extensive surface monitoring
    - Monthly site inspections
    - Proposed leak check program
    - Proposed new reporting requirements

# AB32 – EARLY ACTIONS

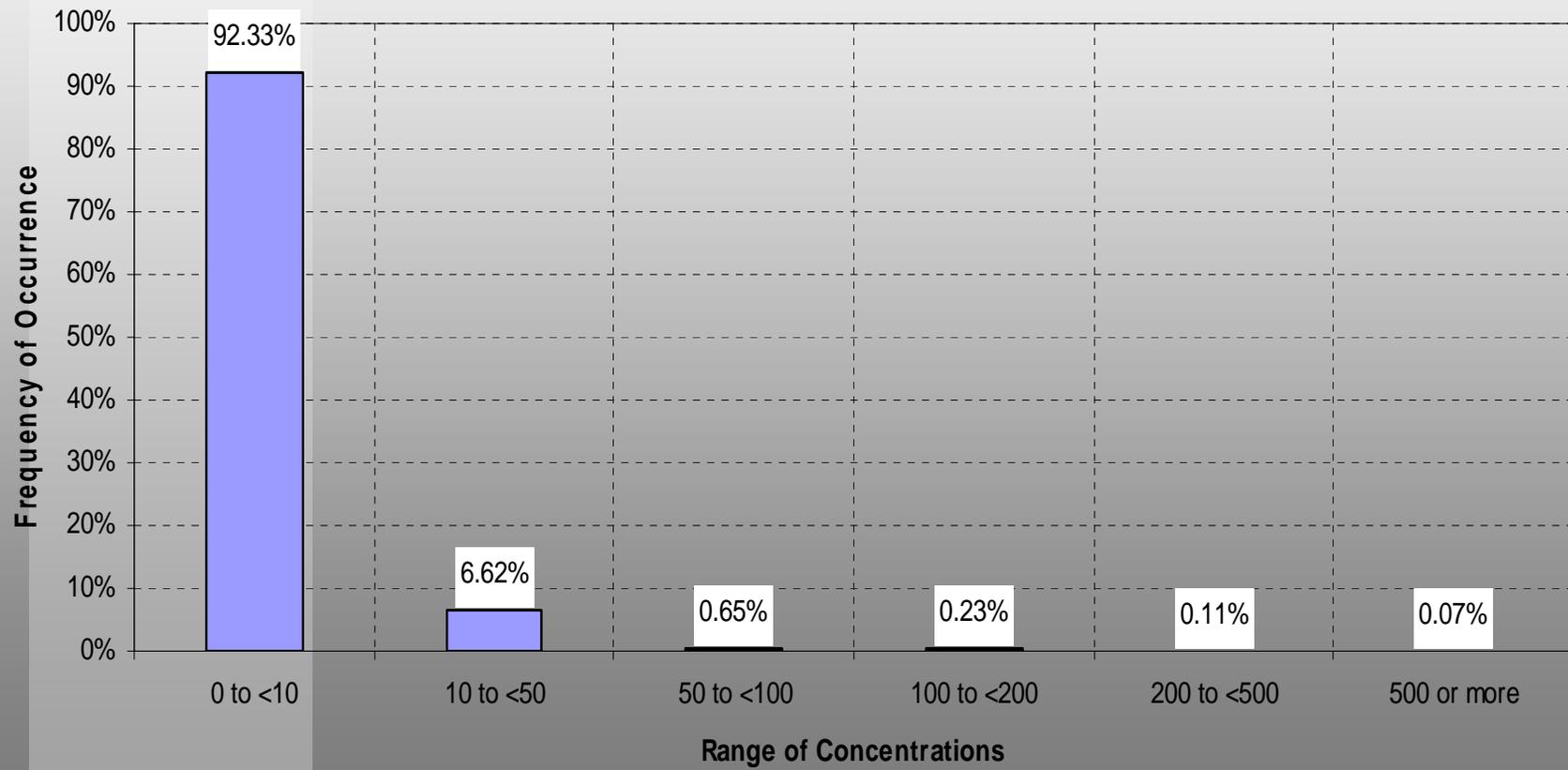
- Landfill methane reduction rule
  - Industry Proposal (*flexibility*)
    - Keep 200 ppm limit, or
    - 500 ppm plus monthly well monitoring
    - Program that mirrors SCAQMD Rule 1150.1
      - 500 ppm Instantaneous and 50 ppm Integrated
  - Industry fighting hard on this one, but something will happen
    - Early action
    - Very political
    - Mary Nichols!



# Monitoring for Surface LFG



**Puente Hills Landfill**  
**Distribution of Instantaneous Surface Gas Concentrations**  
for Entire Year 2006



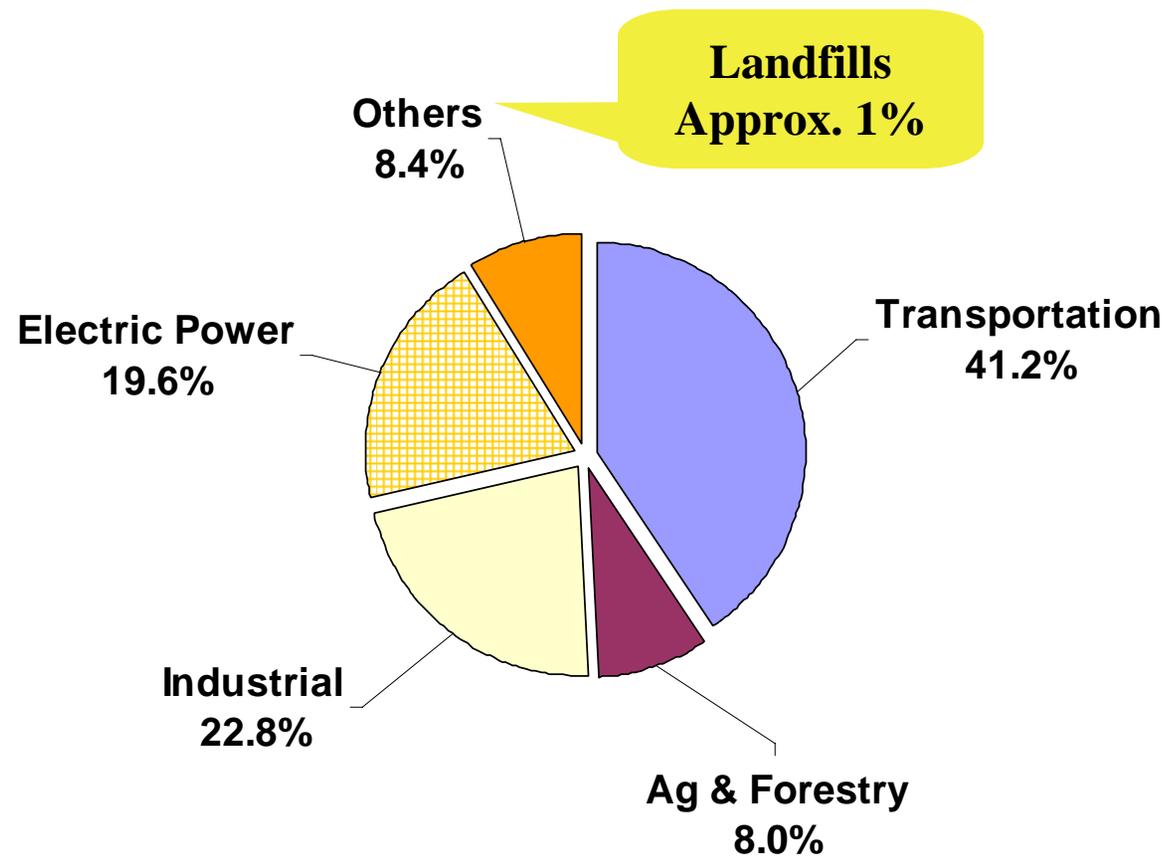
# CARB Landfill Methane Reduction Measure - Cost

- At one site, \$4,800 per acre cost of 500 ppm to 200 ppm
- Most issues will be cover integrity (*cracks in the surface*)
- Significant increase in resources to tackle a small problem

# **CARB Landfill Methane Reduction Measure - Impacts**

- **Potential Significant Air Intrusion**
- **Potential Underground Fires**
- **Reduced Methane Concentrations to Support LFG to Energy Projects.**

# SOURCE OF CALIFORNIA GHG EMISSIONS

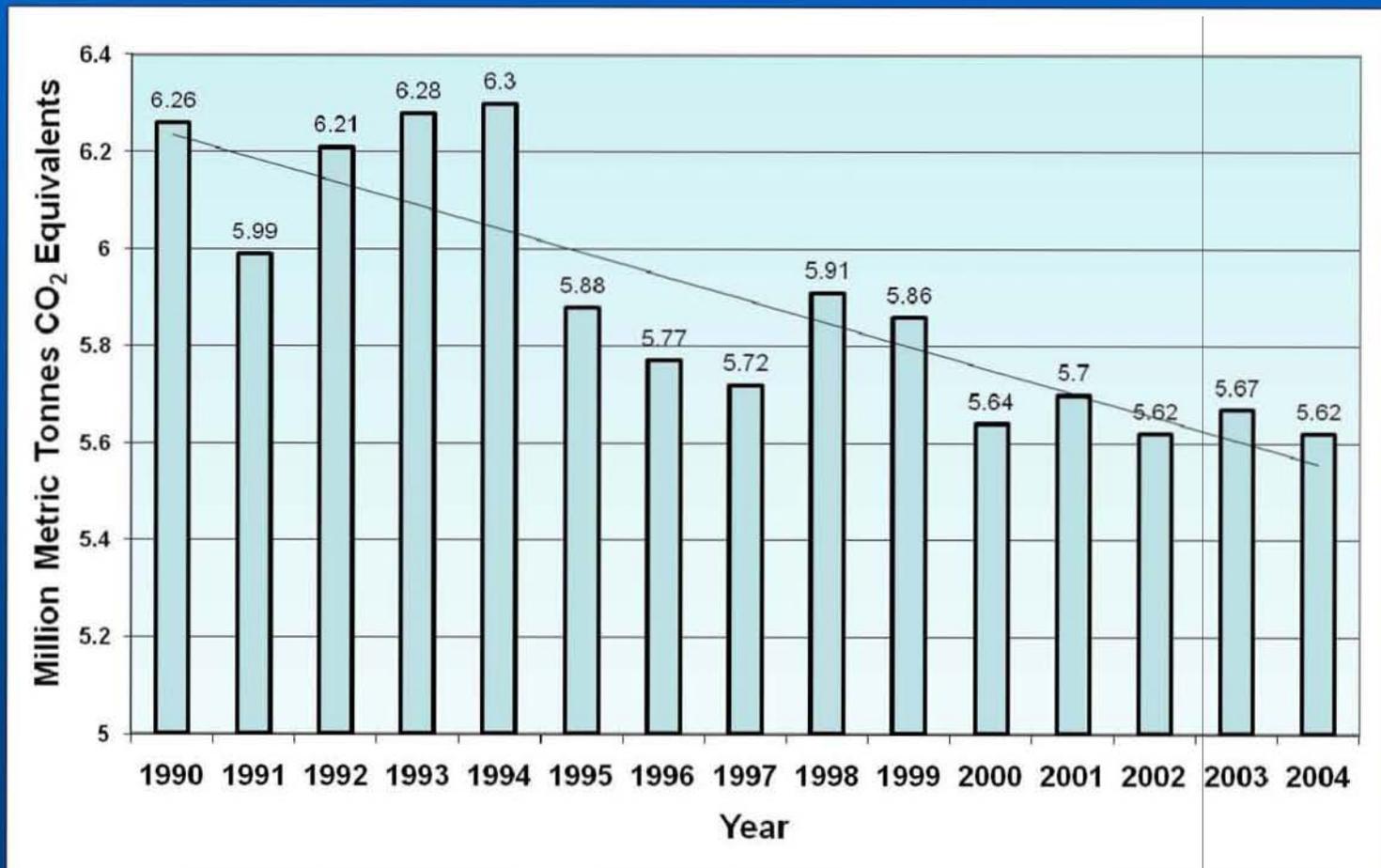


\*expressed as CO<sub>2</sub> equiv.

# Evolution of CA State Landfill GHG Inventory

| Inventory | GHG<br>(MMTCO <sub>2</sub> eq/% Inventory) |
|-----------|--|
| 2002 CEC  | 20.7 (6.0%)                                |
| 2005 CCAT | 20.7 (4.3%)                                |
| 2005 CEC  | 9.9 (2.1%)                                 |
| 2006 CEC  | 8.0 (1.7%)                                 |
| 2007 CARB | 5.64 (1.4%)                                |

# CA Landfill Industry GHG Emissions (CARB)



# FUTURE?

- Scoping Plan – Phase II regulation
- Push for recycling, composting, organic diversion, under the umbrella of GHG control will impact landfills
  - Local Government and Community Reduction Requirements (*requirements of the Scoping Plan*)

# Thank You and Questions

