

# Port of Long Beach Air Monitoring Program




The Port of  
**LONG BEACH**

Background and  
Status Update

# POLB Air Monitoring Program



- 
- **Purpose:**
    - **Community outreach**
    - **Increase information available on air quality conditions in the Port of Long Beach area**
    - **Support technical studies and environmental documents**



# POLB Air Monitoring Program



- Overview:
  - Monitoring began October 2006
  - Two stations:
    - Inner Harbor
    - Outer Harbor
  - Real-time data on the port website
  - Filter-based PM sampling
  - PM2.5 Speciation Study
  - 3-Year Program
  - \$1.1 Million



# POLB Air Monitoring Program



- Locations



# POLB Air Monitoring Program



- Program Details:
  - Met Data: temperature, humidity, wind direction, wind speed, barometric pressure, precipitation, solar radiation
  - Air Quality Data:  $\text{NO}_2$ ,  $\text{O}_3$ ,  $\text{CO}$ ,  $\text{SO}_2$ ,  $\text{PM}_{10}$ ,  $\text{PM}_{2.5}$
  - PM Speciation Study: EC/OC, Metals, Ions, PAHs
  - USC research study: ultrafine particulates



# POLB Air Monitoring Program



Real-Time Data Website: [www.cleanairactionplan.org](http://www.cleanairactionplan.org)

**San Pedro Bay Ports Clean Air Action Plan** **THE PORT OF LONG BEACH**

Map View | Current Data | Yesterday's Data | Daily Highs | Historical Data | Reports

CAAP Home > Air Quality > Map View - locations of the monitoring stations in the Port of Los Angeles and Port of Long Beach

Map | **Satellite** | Hybrid

**Port of Long Beach Inner Port Current Data**

O <sub>3</sub> (1-hr avg)	0.034 ppm
O <sub>3</sub> (8-hr avg)	0.010 ppm
PM <sub>10</sub> (24-hr avg)	67.2 µg/m <sup>3</sup>
PM <sub>2.5</sub> (24-hr avg)	24.8 µg/m <sup>3</sup>
NO <sub>2</sub> (1-hr avg)	0.063 ppm
CO (1-hr avg)	3.090 ppm
CO (8-hr avg)	3.723 ppm
SO <sub>2</sub> (1-hr avg)	0.015 ppm
SO <sub>2</sub> (24-hr avg)	0.009 ppm
Wind Speed (1-hr avg)	5.3 mph

Terms of Use

The screenshot shows a satellite map of the San Pedro Bay area with several monitoring stations marked by colored pins and labeled: POLA Wilmington, POLB Inner Port, POLA Terminal Island, POLA San Pedro, POLB Outer Port, and POLA Outer Harbor. A data table on the right provides current air quality readings for the Port of Long Beach Inner Port station.

# POLB Air Monitoring Program



Click Here

San Pedro Bay Ports **THE PORT OF LONG BEACH**

## Clean Air Action Plan

Map View | **Current Data** | Yesterday's Data | Daily Highs | Historical Data | Reports

CAAP Home > Air Quality > **Current Data** - real-time air quality information All data is preliminary

Select A Site: Port of Long Beach - Inner Port | Observation To Graph: PM2.5

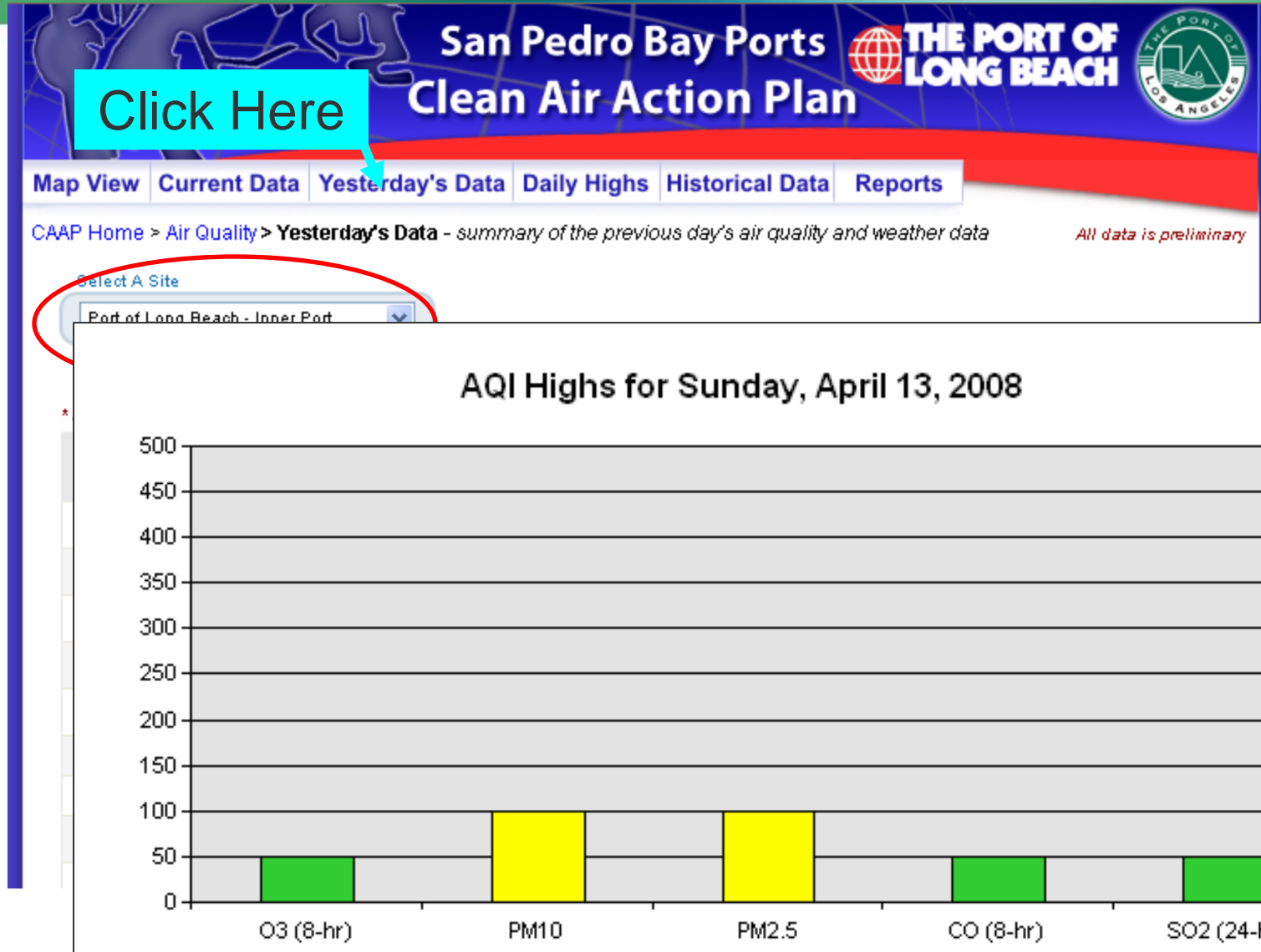
*\* Indicates reading occurred during instrument calibration*

Monitored Parameter	Averaging Period	Current Value	Units	State Standard	Federal Standard
O <sub>3</sub>	1-hr	0.002	ppm	0.09	-
O <sub>3</sub>	8-hr	0.001	ppm	0.07	0.08
PM <sub>10</sub>	24-hr	33.3	µg/m <sup>3</sup>	50	150
<b>PM<sub>2.5</sub></b>	24-hr	<b>15.1</b>	<b>µg/m<sup>3</sup></b>	-	<b>35</b>
NO <sub>2</sub>	1-hr	0.057	ppm	0.25	-
CO	1-hr	4.080	ppm	20.0	35.0
CO	8-hr	3.701	ppm	9.0	9.0
SO <sub>2</sub>	1-hr	0.005	ppm	0.25	-
SO <sub>2</sub>	24-hr	0.004	ppm	0.04	0.14
Wind Speed	1-hr	1.4	mph	-	-
Wind Direction	1-hr	SE	direction	-	-

### PM2.5 Daily Observations

Legend: — PM2.5    - - - Federal Standard


# POLB Air Monitoring Program





# POLB Air Monitoring Program



San Pedro Bay Ports **THE PORT OF LONG BEACH** 

**Click Here**

Map View | Current Data | Yesterday's Data | Daily Highs | Historical Data | Reports

CAAP Home > Air Quality > **Historical Data** - air quality data for past days, weeks and months All data is preliminary

Select A Site: Port of Long Beach - Inner Port | Observation: PM2.5 | Select A View: Table View | Timeframe: From 04-10-2008 To 04-14-2008

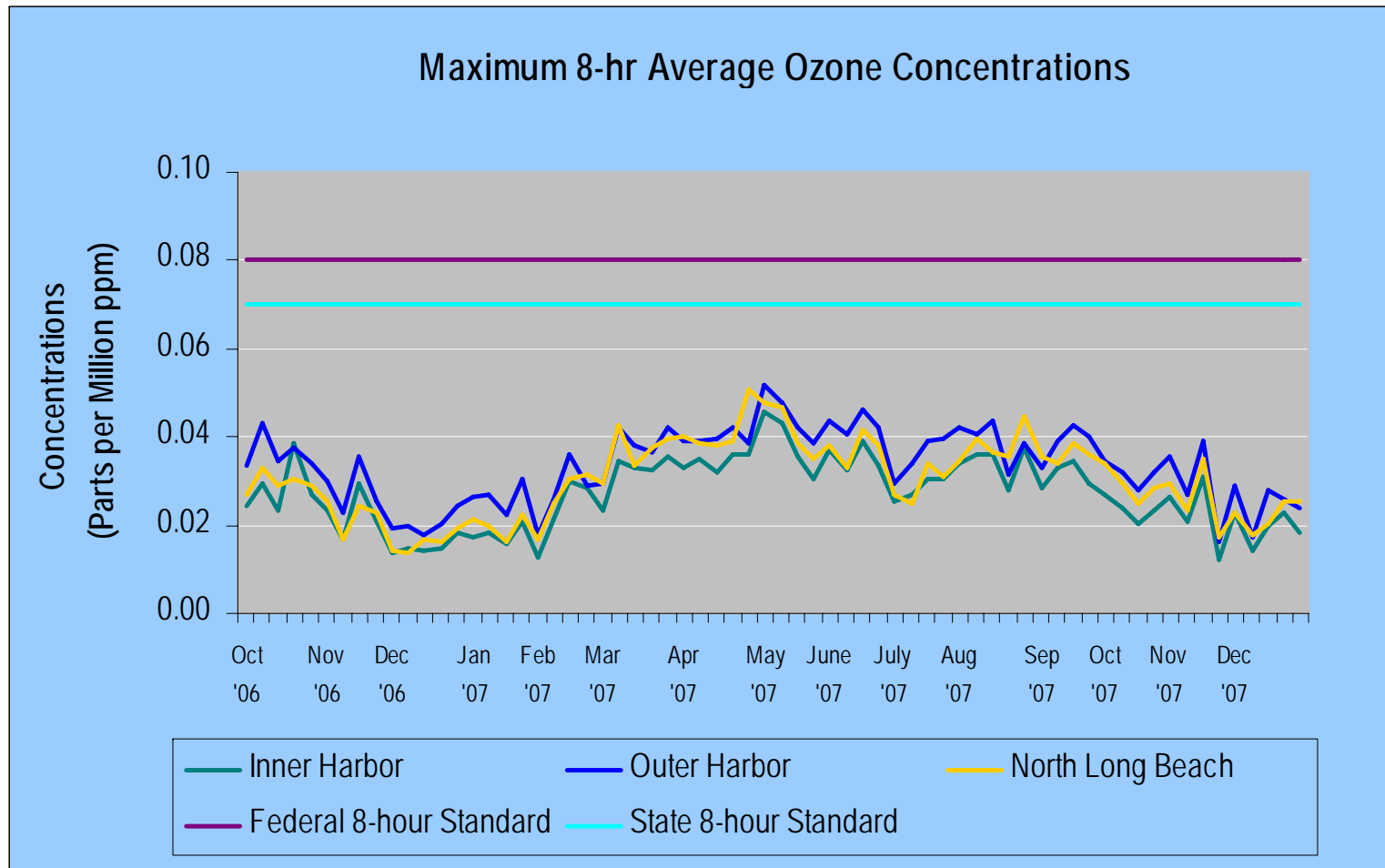
**Submit**

*\* Indicate*

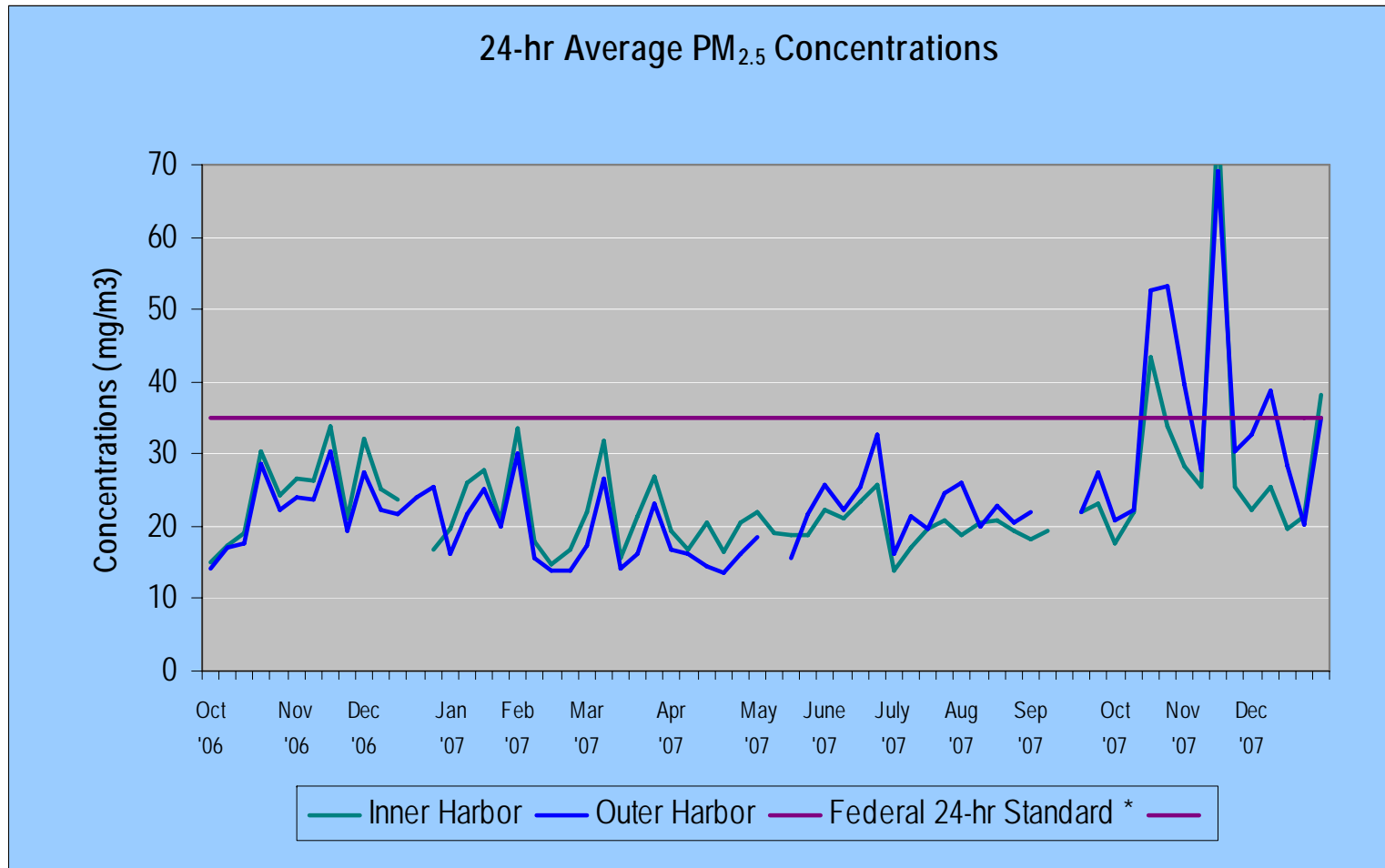
### PM2.5 Daily Observations

Date	PM2.5	Federal Standard
4/10	15.0	35.0
4/10	14.0	35.0
4/10	15.0	35.0
4/10	16.0	35.0
4/10	18.0	35.0
4/10	20.0	35.0
4/10	25.0	35.0
4/10	26.0	35.0
4/10	27.0	35.0
4/10	28.0	35.0
4/10	29.0	35.0
4/10	28.0	35.0
4/10	25.0	35.0
4/10	22.0	35.0
4/10	20.0	35.0
4/10	18.0	35.0
4/10	16.0	35.0
4/10	15.0	35.0
4/10	14.0	35.0
4/10	15.0	35.0
4/10	14.0	35.0
4/10	15.0	35.0
4/10	14.0	35.0
4/10	15.0	35.0
4/10	14.0	35.0
4/10	15.0	35.0

# POLB Air Monitoring Program



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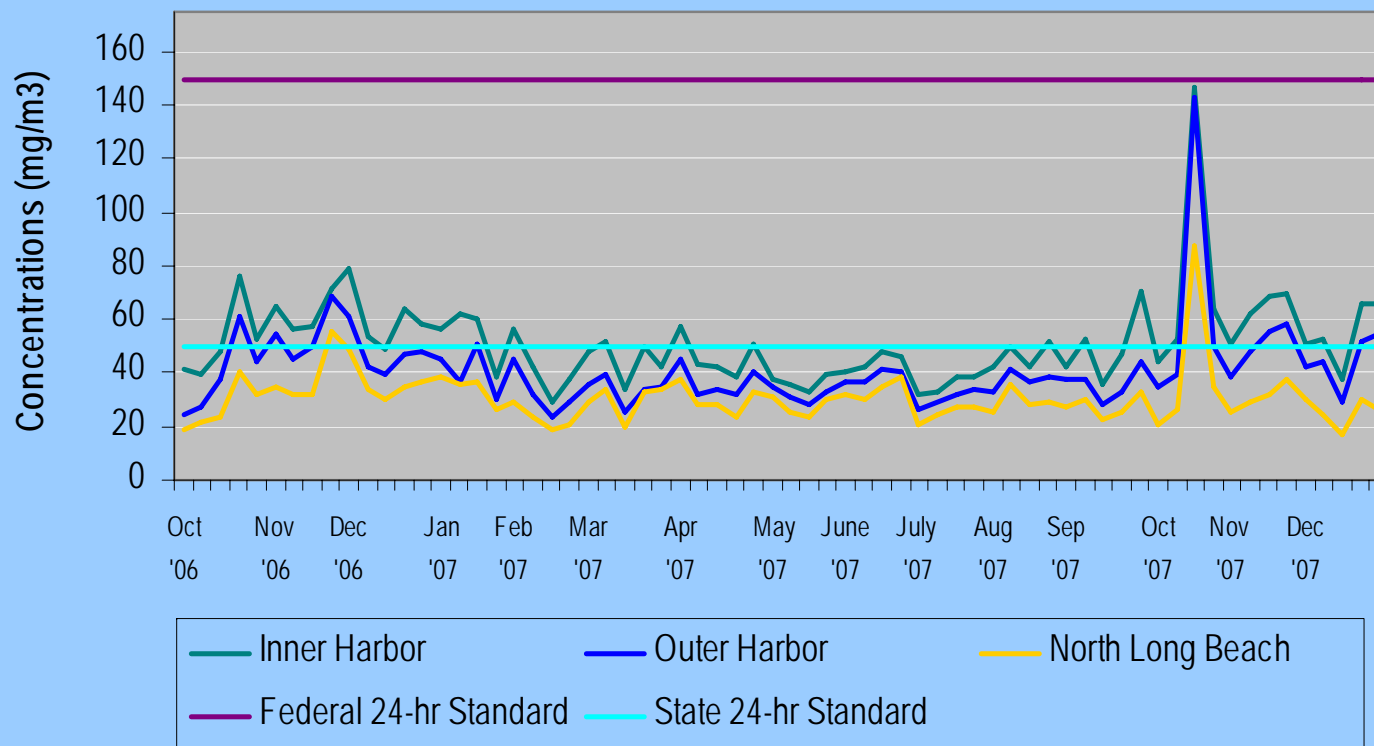
\* The Federal Standard for 24-hour average PM<sub>2.5</sub> concentrations was revised from 65 mg/m<sup>3</sup> to 35 mg/m<sup>3</sup> effective December 18, 2006.



# POLB Air Monitoring Program



### 24-hr Average PM<sub>10</sub> Concentrations



# POLB Air Monitoring Program



Questions/Comments?

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