


2005 - 2013 AIR QUALITY REPORT CARD



PRIMARY POLLUTANTS DEFINED

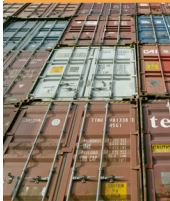
DPM = Diesel Particulate Matter
 NOx = Oxides of Nitrogen
 SOx = Oxides of Sulfur
 PM_{2.5} = Particulate Matter less than 2.5 microns in diameter
 PM₁₀ = Particulate Matter less than 10 microns in diameter
 CO₂ = Carbon Dioxide (A Green House Gas contributor)

OVERALL EMISSIONS REDUCTIONS CY 2005-2013




Pollutant	CY 2005 - 2013	
	%	tons
DPM	80%	712
PM _{2.5}	79%	651
PM ₁₀	80%	779
NOx	57%	9,311
SOx	90%	4,645

EMISSIONS PER 10,000 TEU HANDLED




Pollutant	CY 2005 - 2013	
	%	tons
DPM	81%	0.96
PM _{2.5}	79%	0.88
PM ₁₀	81%	1.05
NOx	59%	12.90
SOx	90%	6.24

OCEAN-GOING VESSEL EMISSIONS REDUCTIONS



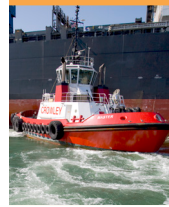
Pollutant	CY 2005 - 2013	
	%	tons
DPM	81%	386
PM _{2.5}	78%	353
PM ₁₀	81%	456
NOx	34%	1,811
SOx	89%	4,496

HEAVY-DUTY VEHICLE/CLEAN TRUCK EMISSIONS REDUCTIONS



Pollutant	CY 2005 - 2013	
	%	tons
DPM	93%	229
PM _{2.5}	93%	209
PM ₁₀	93%	227
NOx	80%	5,113
SOx	91%	38

HARBOR CRAFT EMISSIONS REDUCTIONS



Pollutant	CY 2005 - 2013	
	%	tons
DPM	52%	29
PM _{2.5}	52%	27
PM ₁₀	52%	29
NOx	47%	615
SOx	91%	6

RAIL EMISSIONS REDUCTIONS



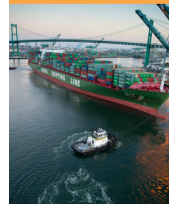
Pollutant	CY 2005 - 2013	
	%	tons
DPM	49%	28
PM _{2.5}	49%	26
PM ₁₀	49%	28
NOx	52%	884
SOx	99%	97

CARGO-HANDLING EQUIPMENT EMISSIONS REDUCTIONS



Pollutant	CY 2005 - 2013	
	%	tons
DPM	76%	40
PM _{2.5}	73%	36
PM ₁₀	73%	39
NOx	57%	888
SOx	84%	8

CO₂ EQUIVALENT REDUCTIONS BY SOURCE TYPE



Source Type	CY 2005 - 2013	
	%	metric tons
Ocean-Going Vessels	35%	103,603
Harbor Craft	16%	9,132
Cargo Handling Equipment*	-3%	-3,680
Rail	19%	15,403
Heavy-Duty Vehicles	25%	116,459
TOTAL		240,917

* All percentages reflect a reduction in emissions except cargo handling equipment.

SAN PEDRO BAY STANDARDS



- The San Pedro Bay Standards establish the long-term emissions-reduction and health risk-reduction goals for the ports of Los Angeles and Long Beach.
- Emission Reduction Standard for DPM, NOx, and SOx have target years of 2014 and 2023 to support state ambient air quality goals.
- Health Risk Reduction Standard has a target year of 2020 to align with CARB's Goods Movement Emission Reduction Plan.

Clean Air Action Plan (CAAP) Goals (% reduction compared to 2005)	2014	2023
DPM	72%	77%
NOx	22%	59%
SOx	93%	93%

Health Risk Reduction Standard 2020 85%
 (% reduction in residential cancer risk compared to 2005)