

2019



AIR QUALITY REPORT CARD

SAN PEDRO BAY STANDARDS

As identified in the San Pedro Bay Ports Clean Air Action Plan (CAAP), 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 Standards for DPM, NO_x and SO_x have target years of 2014 and 2023 to support state ambient air quality goals.
- The Health Risk Reduction Standard has a target year of 2020 to align with California Air Resources Board's Goods Movement Emission Reduction Plan.

All reductions shown are compared to 2005 baseline levels.



CLEAN AIR ACTION PLAN GOALS

	2014	2023
DPM	72%	77%
NO _x	22%	59%
SO _x	93%	93%
	2020	
Health Risk	85%	

OVERALL REDUCTIONS

Pollutant	%	tons
DPM	87%	767
PM _{2.5}	86%	702
PM ₁₀	87%	821
NO _x	62%	10,034
SO _x	98%	4,874

Health Risk %
(DPM used as a surrogate for health risk) 87%



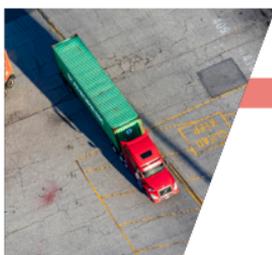
EMISSIONS PER 10,000 TEU HANDLED REDUCTIONS

Pollutant	%	tons
DPM	89%	1.06
PM _{2.5}	88%	0.97
PM ₁₀	89%	1.13
NO _x	69%	15.04
SO _x	98%	6.54

OCEAN-GOING VESSEL EMISSIONS REDUCTIONS

Pollutant	%	tons
DPM	91%	425
PM _{2.5}	88%	379
PM ₁₀	90%	480
NO _x	48%	2,552
SO _x	98%	4,723





HEAVY-DUTY VEHICLE/CLEAN TRUCK EMISSIONS REDUCTIONS

Pollutant	%	tons
DPM	97%	239
PM _{2.5}	96%	229
PM ₁₀	96%	239
NO _x	78%	4,925
SO _x	92%	41

HARBOR CRAFT EMISSIONS REDUCTIONS

Pollutant	%	tons
DPM	54%	29
PM _{2.5}	54%	27
PM ₁₀	54%	29
NO _x	43%	563
SO _x	89%	5



RAIL EMISSIONS REDUCTIONS

Pollutant	%	tons
DPM	44%	25
PM _{2.5}	45%	24
PM ₁₀	44%	25
NO _x	48%	830
SO _x	99%	97

CARGO-HANDLING EQUIPMENT EMISSIONS REDUCTIONS

Pollutant	%	tons
DPM	91%	48
PM _{2.5}	87%	44
PM ₁₀	88%	47
NO _x	74%	1,163
SO _x	80%	7



CO2 EQUIVALENT CHANGES BY SOURCE TYPE

Source Type	%	tonnes
Ocean-Going Vessels	↓33%	↓96,004
Harbor Craft	↑7%	↑3,959
Cargo-Handling Equipment	↑32%	↑42,643
Rail	↓13%	↓10,837
Heavy-Duty Vehicles	↓20%	↓96,862
TOTAL	↓15%	↓157,102

◆ = reduction ◆ = increase

PRIMARY POLLUTANTS DEFINED:

DPM = Diesel Particulate Matter
NO_x = Oxides of Nitrogen
SO_x = Oxides of Sulfur

PM_{2.5} = Particulate Matter less than 2.5 microns in diameter
PM₁₀ = Particulate Matter less than 10 microns in diameter
CO_{2e} = Carbon Dioxide Equivalent (describes greenhouse gases in a single number)