

### 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.

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Emission Reduction Standard for DPM, NOx, and S	Ох
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
12	DPM	72%	77%
1	NO <sub>x</sub>	22%	59%
14	SO <sub>x</sub>	93%	93%
ndinen Selecter	Health Risk Reduction Standard	2020	85%

6 reduction in residential cancer risk compared to 2005)

### **OVERALL EMISSIONS REDUCTIONS CY 2005-2014**

		CY 20	05-2014
	Pollutant		tons
10-2-1 CT	DPM	85%	749
	PM <sub>2.5</sub>	83%	691
	PM10	84%	810
	NO <sub>x</sub>	52%	8,442
Sec. Street	SO <sub>x</sub>	97%	4,819

# EMISSIONS PER 10,000 TEU HANDLED

	CY 20	05-2014
Pollutant		tons
DPM	86%	1.02
PM <sub>2.5</sub>	85%	0.94
PM10	86%	1.10
NO <sub>x</sub>	57%	12.34
SOx	98%	6.46

## **OCEAN-GOING VESSEL EMISSIONS REDUCTIONS**

	CY 2005-2014	
Pollutant		tons
DPM	87%	412
PM <sub>2.5</sub>	85%	372
PM <sub>10</sub>	87%	474
NO <sub>x</sub>	31%	1,641
SO <sub>x</sub>	97%	4,668

# HEAVY-DUTY VEHICLE/CLEAN TRUCK EMISSIONS REDUCTIONS

	CY 2005-2		5-2014
- 5 -	Pollutant		tons
	DPM	97%	241
	PM <sub>2.5</sub>	97%	230
	PM10	97%	240
	NO <sub>x</sub>	71%	4,496
	SOx	91%	41

### HARBOR CRAFT EMISSIONS REDUCTIONS

903.000.6000 3.000.000.000.000.000.00		CY 2005-2014	
	Pollutant		tons
	DPM	47%	26
	PM <sub>2.5</sub>	47%	24
	PM <sub>10</sub>	47%	26
COLOROS-	NO <sub>x</sub>	39%	517
	SO <sub>x</sub>	90%	6

# **RAIL EMISSIONS REDUCTIONS**

A Real Property lines of the		CY 2005-2014	
	Pollutant		tons
	DPM	49%	28
	PM <sub>2.5</sub>	51%	27
	PM <sub>x10</sub>	49%	28
	NO <sub>x</sub>	52%	893
	SOx	99%	97

## CARGO HANDLING EQUIPMENT EMISSIONS REDUCTIONS

	CY 2005-2014		5-2014
A COL	Pollutant		tons
	DPM	81%	43
	PM <sub>2.5</sub>	78%	38
	PM <sub>10</sub>	78%	42
	NO <sub>x</sub>	57%	895
	SO <sub>x</sub>	81%	

### CO<sub>2</sub> EQUIVALENT EMISSIONS BY SOURCE TYPE

		CY 2	005-2014
A AA	Source Type		tons
	Ocean-Going Vessels	25%	71,489
	Harbor Craft	2%	1,033
	Cargo Handling Equipment	-27%	-36,120
	Rail	17%	13,884
Arth Hart	Heavy-Duty Vehicles	24%	111,098
Et Ca La Le D	TOTAL	16%	161,383

 $\begin{array}{l} \label{eq:primary pollutants defined:} \textbf{PRIMARY POLLUTANTS DEFINED:} \\ \textbf{DPM} = \textbf{Diesel Particulate Matter} \\ \textbf{NO}_{x} = \textbf{Oxides of Nitrogen} \end{array}$ 

SO<sub>x</sub> = Oxides of Sulfur PMo r = Particulate Matter less than 2.5

 $PM_{2.5}^{2}$  = Particulate Matter less than 2.5 microns in diameter  $PM_{10}^{2}$  = Particulate Matter less than 10 microns in diameter

CO2 = Carbon Dioxide (A Green House Gas contributor)