

# CLOSE-OUT FACT SHEET

**Project Name:** Air Quality and Street Paving Project in Puerto Peñasco, Sonora

**Certification:** Jun-06

**Project Location:** Puerto Peñasco, Sonora

**Construction complete:** Dec-08

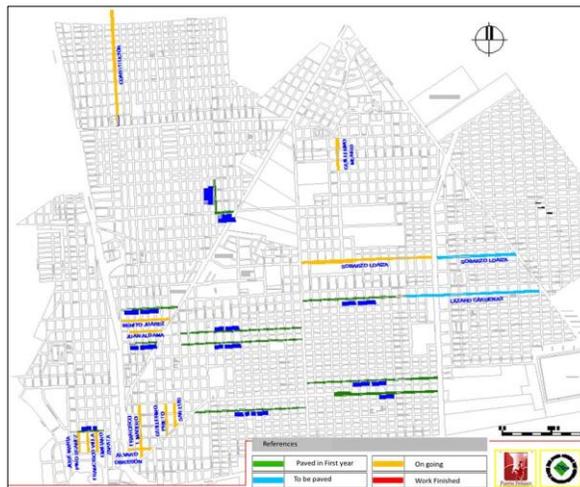
**Project Sector:** Air Quality

**Close-out Report:** May-13



## The Pre-Project Conditions

The project was required in order to reduce the concentration of PM10 particles in the atmospheric basin of the city. Not implementing this project would have represented a continuation of dispersed PM10 particles in the atmosphere, and continue exposure of the population to respiratory ailments. This situation represented a serious health problem, as during the summer months, when the ground is dry due to lack of rain, automobile transit, and frequent winds in the region, cause the finest dust particles to remain suspended in the air and thus create a potential source of diseases in the respiratory system, and allergies, mainly in children, young adults and senior citizens.



## The Project Objective

The objective of the project is to reduce harmful emission by increasing street paving coverage as well as improving roadway and traffic infrastructure in order to reduce the suspended dust particles (PM10) and vehicle emissions, therefore improving air quality and the health of the citizens.

## The Project Scope

The project consists of paving existing unpaved roads using asphalt pavement. The scope of the project was a 2 year program of paving (237,634 m<sup>2</sup>) and includes rehabilitation of water and wastewater collection lines, construction of storm sewers as required, and other tasks related to the project.

<b>Actual Investment: MX\$(Millions)</b>	<b>50.59M</b>
<b>NADB Loan:</b>	<b>42.25M</b>
<b>Other sources:</b>	<b>8.34M</b>

<b>Anticipated Investment: MX\$(Millions)</b>	<b>At Certification</b>	<b>Variation</b>
<b>NADB Loan:</b>	<b>25M</b>	<b>17.25M</b>
<b>Other sources:</b>	<b>12.5M</b>	<b>(4.16M)</b>
<b>Rio Colorado Trust contributions:</b>	<b>12.5M</b>	<b>(12.5M)</b>
<b>Total:</b>	<b>50M</b>	<b>0.59M</b>
Other Sources: Municipal funds		

<b>Benefited population:</b>	<b>5,600</b>
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## The Results

<b>Outcomes</b>	<b>Indicators</b>	<b>Target</b>	<b>Actual</b>
Reduced emissions of PM10	Paved surface	237,634 m <sup>2</sup>	252,668 m <sup>2</sup>
	Estimate of PM10 emissions avoided	130 tons/year	131 tons/year
Increase the coverage of paved roads.	City's Paving coverage	21.13%	21.36%

<b>Outputs</b>	
Concrete paved surface	252,668 m <sup>2</sup> (15.16 km)
Paved roads during the first year	104,092 m <sup>2</sup>
Paved roads during the second year	133,542 m <sup>2</sup>

**Significant project contributions**  
Increasing street paving coverage from;  
**17.56% to 21.13%**

