

## CLOSE-OUT FACT SHEET

**Project Name:** "Los Alisos" Wastewater Treatment and Conveyance Project  
**Project Location:** Nogales, Sonora  
**Project Sector:** Wastewater Treatment

**Certification:** Oct-10  
**Construction complete:** Jul-13  
**Close-out Report:** Sep-14



### The Pre-Project Conditions

Untreated wastewater (WW) discharges from Nogales, Sonora flowed into the State of Arizona through the Nogales Wash. In addition, the rapid demographic growth of Nogales, Sonora created an additional WW treatment demand well beyond the capacity allotted to Mexico in the Nogales International Wastewater Treatment Plant in Arizona (NIWTP). Minute 276 of the International Boundary and Water Commission (IBWC) established that up to 9.9 million gallons per day (MGD) or 434 liters per second (lps) of the WW collected by Nogales, Sonora could be conveyed by gravity to the NIWTP. Transboundary flows in 2010 increased to annual averages of 12.5 MGD (548 lps) and showed no sign of decline. This project is referred as Los Alisos.



### The Project Objective

Eliminate exposure to untreated WW by expanding the WW conveyance and treatment to un-served areas, contributing to the reduction of groundwater pollution and the risk of water-borne diseases.

### The Project Scope

The project consisted of the construction of a wastewater treatment plant (WWTP) in Los Alisos River basin with an initial capacity of 5 MGD (220 lps). The project also included the construction of a lift station, force main and gravity outfall.

Actual Investment: US\$ (Millions)	19.4M	
NADB Grant: EPA BEIF	7.6M	
NADB Loan	3.2M	
Other Sources	8.6M	
<b>Anticipated Investment: US\$ (Millions)</b>		
	<b>At Certification</b>	<b>Variation</b>
NADB Grant: EPA BEIF	8M	(0.4M)
NADB Loan	3.2M	0
Other Sources	8.1M	0.5M
<b>Total</b>	<b>19.3M</b>	<b>0.1M</b>
Other Sources: CONAGUA ; Project Sponsor (OOMAPAS)		

<b>Benefited population:</b>	<b>70,000</b>
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### The Results

Outcomes	Indicators	Target	Actual (2014)
Increase access to wastewater treatment services	Increased wastewater treatment capacity	5 MGD	5 MGD
	Compliance with applicable norms and regulations	100%	100%
Reduction of untreated wastewater discharges to water bodies	Quantity of uncollected wastewater discharges eliminated	2.99 MGD	2.35 MGD

Outputs	
Wastewater treatment plant	5 MGD
28" diameter Force Main (miles)	4.65
24", 28" and 36" diameter Gravity Outfall (miles)	9.38
Lift station (9.13 MGD)	1



### Significant project finding(s)

Excess flows previously conveyed to the NIWWTP, are now treated at Los Alisos WWTP. The solar field could generate approximately 94% of the total energy consumed by the plant at maximum capacity (5 MGD)

