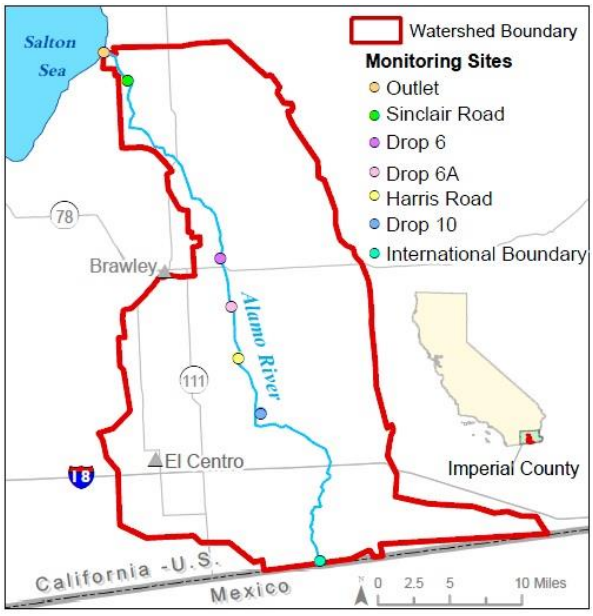
Water Quality Report Card		Pesticides in Alamo River (Chlorpyrifos and Diazinon)	
Regional Water Board:	**Colorado River Basin, Region 7**	**STATUS**	☑ **Conditions Improving** ☐ Data Inconclusive ☑ **Improvement Needed** ☐ Targets Achieved/Water Body Delisted
Beneficial Uses Affected:	WARM, WILD, RARE, REC-1, REC-2		
Implemented Through:	Regional Water Board Resolution Agricultural Waiver	**Pollutant Type:**	☐ Point Source ☑ Nonpoint Source ☐ Legacy
Effective Date:	September 19, 2013 (Resolution)	**Pollutant Source:**	Irrigated Crop Production
Attainment Date:	2018		

Water Quality Improvement Strategy

The Alamo River originates in Mexico about a half mile South of the international boundary and flows North to the Salton Sea in Imperial County, California. Dominated by discharges from Imperial Valley agriculture, the Alamo River exceeds water quality standards for chlorpyrifos and diazinon and is listed as impaired for both pesticides on the USEPA Clean Water Act 303(d) List. To address the impairment the Colorado River Basin Regional Water Board adopted a resolution in September 2013, certifying revisions to the Imperial County Farm Bureau's (ICFB) existing Voluntary TMDL Compliance Program. The revisions promote implementation of management practices such as land leveling and irrigation water management and require reporting on actions to control chlorpyrifos and diazinon. In January 2015, the Regional Water Board adopted an agricultural conditional waiver and is implementing requirements for management practices and pesticide monitoring. The Regional Water Board revised the numeric evaluation guidelines (targets) for chlorpyrifos and diazinon in the Alamo River in 2016, to reflect current research from 25 ng/L to 14ng/L for chlorpyrifos and 160 ng/L to 100 ng/L for diazinon.

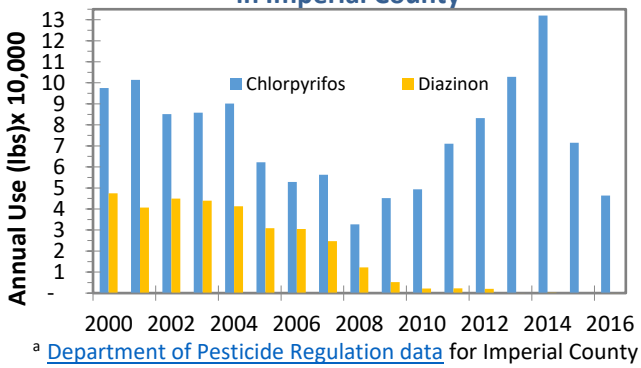
Alamo River Watershed



Water Quality Outcomes

- *Water quality monitoring data show that chlorpyrifos concentrations consistently exceed water quality target (14 ng/L) at lower and middle watershed monitoring sites.*
- *The increase, and subsequent decrease, in use of chlorpyrifos in Imperial County in recent years is reflected in the concentrations in the Alamo River.*
- *Diazinon use was discontinued in Imperial County in 2015.*
- *Diazinon concentrations met water quality target (100 ng/L) from 2013 to 2017.*
- *The Regional Water Board will review the ICFB monitoring data and determine if significant progress has been made prior to the resolution's expiration in December 2018.*

Annual Pesticide (Chlorpyrifos and Diazinon) Use in Imperial County[a]



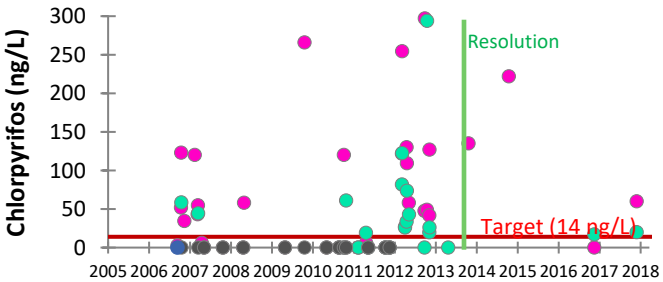
[a] Department of Pesticide Regulation data for Imperial County (includes New River and Alamo River Watersheds).

[b] Monitoring data available on CEDEN and CA Department of Pesticide Regulation websites and Regional Board ILRP.

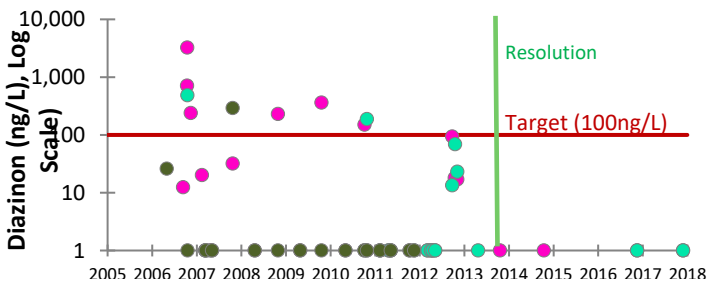
[c] Non-detects are represented as 0 (zero) at the chlorpyrifos graph.

[d] Non-detects are represented as 1 (one) at the diazinon graph with log scale.

Chlorpyrifos in Alamo River[bc]



Diazinon in Alamo River[bd]



● Lower (Sinclair Road, Outlet) ● Middle (Drop 10, Harris Road, Drop 6A, Drop 6) ● Upper (International Boundary)

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