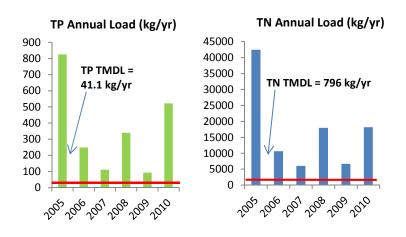
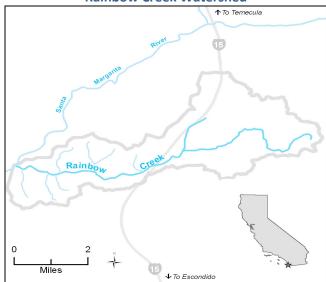
Total Maximum Daily Load Progress Report		Rainbow Creek Total Nitrogen and Total Phosphorus TMDLs	
Regional Water Board	San Diego, Region 9	STATUS	☑ Conditions Improving☐ Data Inconclusive☐ Improvement Needed☐ TMDL Achieved/Waterbody Delisted
Beneficial uses affected	WARM, COLD, WILD, REC1, REC2		
Pollutant(s) addressed:	Total Nitrogen, Total Phosphorus		
Implemented through:	BMP, Monitoring & Assessment		
Approval date:	March 2006		

TMDL summary: Rainbow Creek was first listed in 1996 as an impaired waterbody due to eutrophication. The listing was modified in 2002 to reflect impairment due to total nitrogen (TN) and total phosphorus (TP). These nutrients exceeded the water quality objective for biostimulatory substances, threatening aquatic life beneficial uses (WARM, COLD, and WILD). Excessive algal growth and nuisance condition also threatened contact and non-contact water recreation beneficial uses (REC1 and REC2). Major sources of excess nutrients in Rainbow Creek include stormwater runoff from agricultural, residential and urban areas; commercial nursery irrigation return flows; and septic tank disposal systems. The TMDL sets annual load allocations and waste load allocations for TN and TP, as well as a compliance schedule by December 31, 2021.

TMDL Waste Load Allocations/Load Allocations Station RBC06



Rainbow Creek Watershed



Water Quality Outcomes

- Water quality data indicate that conditions are improving, as concentrations of both TN and TP show a decreasing trend.*
- Annual loads of both TN and TP have decreased since 2005, but are still above their respective allocations.*
- IBI scores based on bioassessment data show slight improvement, but indicate the condition of the benthic community is very poor. [IBI scores are on a scale of 0-100, with 0-20 Very Poor, 21-40 Poor, 41-60 Fair, 61-80 Good, and 81-100 Very Good.]
- Further improvement is needed in order to delist Rainbow Creek from the 303(d) List.
- st Data shown are from a downstream station (Station RBC06), close to the USGS flow gauging station.

Rainbow Creek Receiving Water Quality

