

# California Total Maximum Daily Load (TMDL)

## Program Summary Report

Fiscal Year 2012 – 2013

Revised September 2013

State Water Resources Control Board  
Regional Water Quality Control Boards

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## Foreword

### Summary of the status of California's TMDL Program

The purpose of this Program Status Summary Report is to provide the State Water Resources Control Board and the Regional Water Quality Control Boards management, U.S. Environmental Protection Agency, and the public with a succinct presentation of fiscal year 2012 – 2013 TMDL Program performance and long term trends. The graphs and tables used in the report provide multiple lenses through which to assess the Program.

The report lays out the magnitude of the problem and examines the progress the State has made from several perspectives. It looks at:

- The current amount of impaired, i.e., Clean Water Act sect. 303(d) listed, waters;
- Fiscal year 2012 – 2013 commitments and achievements;
- TMDLs adopted and approved;
- Resources needed to make the current level of progress;
- How those resources are being expended; and
- Short and long term achievement trends .

Information is reported for the Statewide Program and for each Region.

A second section is essays which provide a way of capturing Regional Water Board accomplishments and challenges that are not amenable to graphic display or numerical interpretations.

### Program Evaluation

The last 303(d) listing cycle resulted in a sharp increase, by over half again, in the number of impaired waters. Therefore the number of TMDLs needed to address all impaired waters correspondingly increased. Progress was made during FY 12-13, 93 impaired water listings were addressed.

Adopted TMDLs must be implemented in order to actually achieve the intended water quality improvements. As the number of adopted TMDLs has increased greater effort and more resources have gone into implementing those TMDLs. The TMDL program has been faced with an increased work load and reductions in staffing and research (contract) funds. Efforts continue to try to maintain productivity the TMDL program by increasing TMDL adoption efficiency at the Regional Water Board level and at the State level through Statewide TMDLs.

# TMDL Program Performance Summary

## Long Term Program Performance

Number of TMDLs Adopted through June FY 12-13 = 197  
Number of Listings addressed through TMDL Adoptions through June FY 12-13 = 1258  
Number of Listings addressed by delisting through June FY 12-13 = 516  
Total Number of CWA 303(d) Listings Addressed through June FY 12-13 = 1,774  
Percentage of 2010 CWA 303(d) Listings Addressed by TMDLs through June FY 12-13 = 36%

## Fiscal Year 2012 - 2013 Program Performance

### Region 1

120/137 = 88% Workplan TMDL Commitments Completed  
0/2 TMDLs Completed/Scheduled  
0 303d Listings addressed in 12-13  
141 Tasks scheduled for completion in FY 12-13  
2 TMDLs scheduled for adoption in FY 12-13  
2 Number 303d listings scheduled in FY12-13

### Region 2

31/35 = 89% Workplan TMDL Commitments Completed  
1/2 TMDLs Completed/Scheduled  
2 303d Listings addressed in 12-13  
38 Tasks scheduled for completion in FY 12-13  
2 TMDLs scheduled for adoption in FY 12-13  
3 Number 303d listings scheduled in FY12-13

### Region 3

59/63 = 94% Workplan TMDL Commitments Completed  
5/4 TMDLs Completed/Scheduled  
86 303d Listings addressed in 12-13  
63 Tasks scheduled for completion in FY 12-13  
4 TMDLs scheduled for adoption in FY 12-13  
38 Number 303d listings scheduled in FY12-13

### Region 4

81/107=76% Workplan TMDL Commitments Completed  
7/8 TMDLs Completed/Scheduled  
24 303d Listings addressed in 12-13  
112 Tasks scheduled for completion in FY 12-13  
8 TMDLs scheduled for adoption in FY 12-13  
50 Number 303d listings scheduled in FY12-13

### Region 5

57/71=80% Workplan TMDL Commitments Completed  
0/1 TMDLs Completed/Scheduled  
0 303d Listings addressed in 12-13  
72 Tasks scheduled for completion in FY 12-13  
1 TMDLs scheduled for adoption in FY 12-13  
63 Number 303d listings scheduled in FY12-13

### Region 6

22/55=40% Workplan TMDL Commitments Completed  
0/0 TMDLs Completed/Scheduled  
0 303d Listings addressed in 12-13  
55 Tasks scheduled for completion in FY 12-13  
0 TMDLs scheduled for adoption in FY 12-13  
0 Number 303d listings scheduled in FY12-13

### Region 7

28/48=58% Workplan TMDL Commitments Completed  
0/3 TMDLs Completed/Scheduled  
0 303d Listings addressed in 12-13  
48 Tasks scheduled for completion in FY 12-13  
3 TMDLs scheduled for adoption in FY 12-13  
16 Number 303d listings scheduled in FY12-13

### Region 8

43/60=72% Workplan TMDL Commitments Completed \*  
0/1 TMDLs Completed/Scheduled  
0 303d Listings addressed in 12-13  
60 Tasks scheduled for completion in FY 12-13  
1 TMDLs scheduled for adoption in FY 12-13  
1 Number 303d listings scheduled in FY12-13

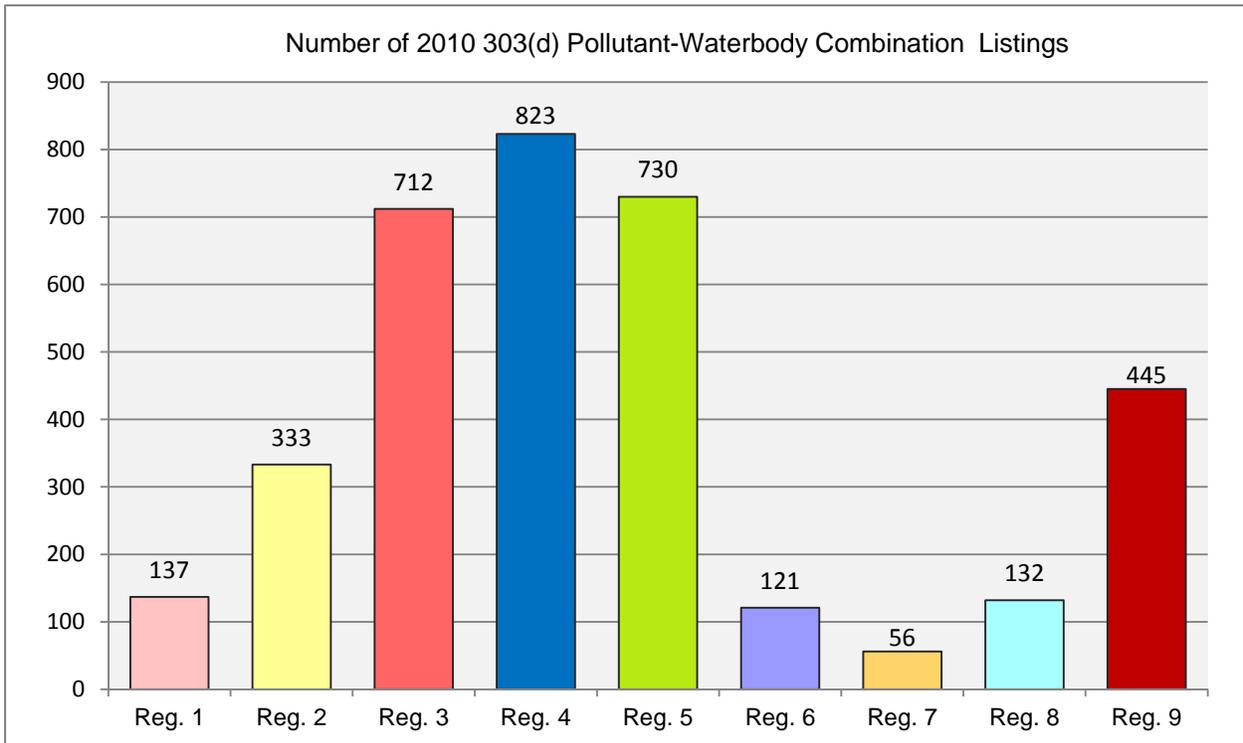
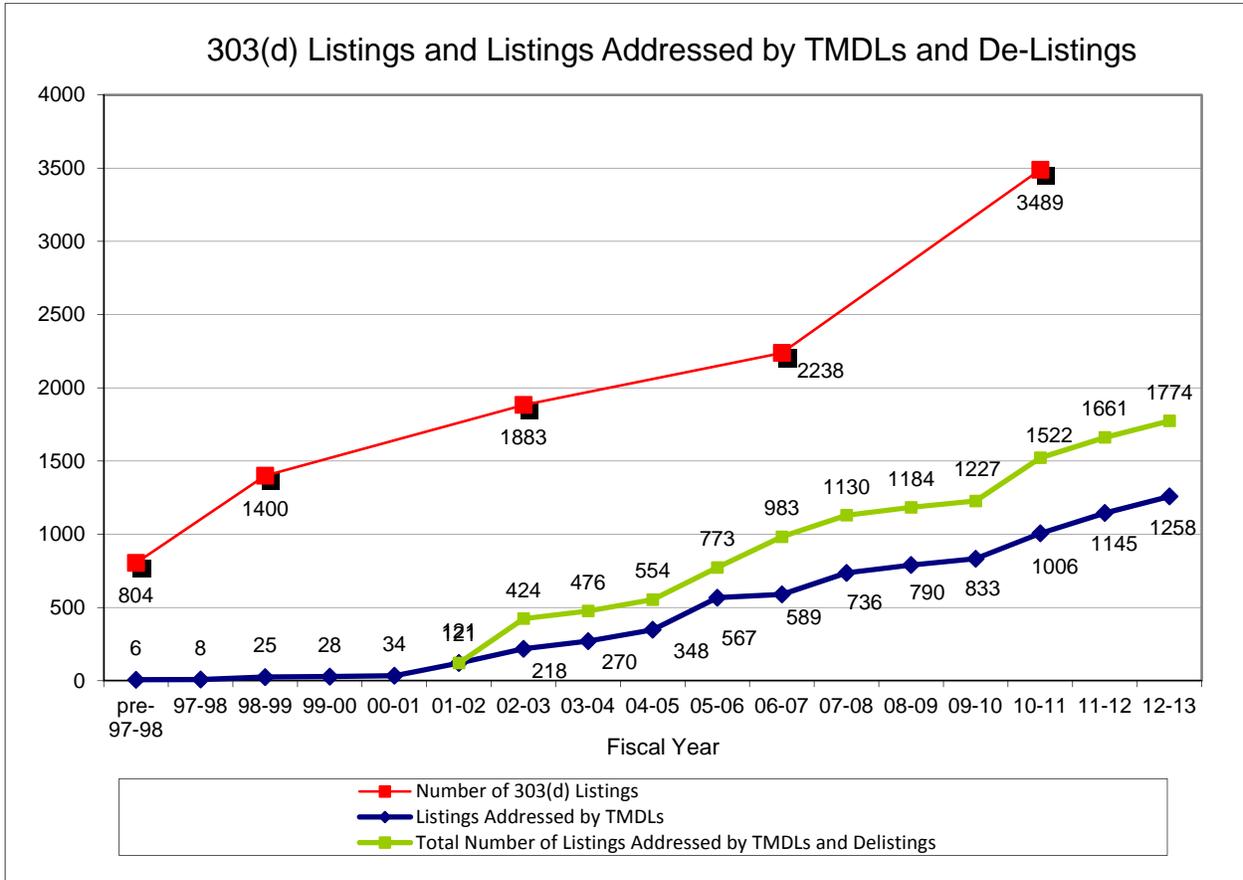
### Region 9

20/43=47% Workplan TMDL Commitments Completed  
0/5 TMDLs Completed/Scheduled  
0 303d Listings addressed in 12-13  
43 Tasks scheduled for completion in FY 12-13  
5 TMDLs scheduled for adoption in FY 12-13  
10 Number 303d listings scheduled in FY12-13

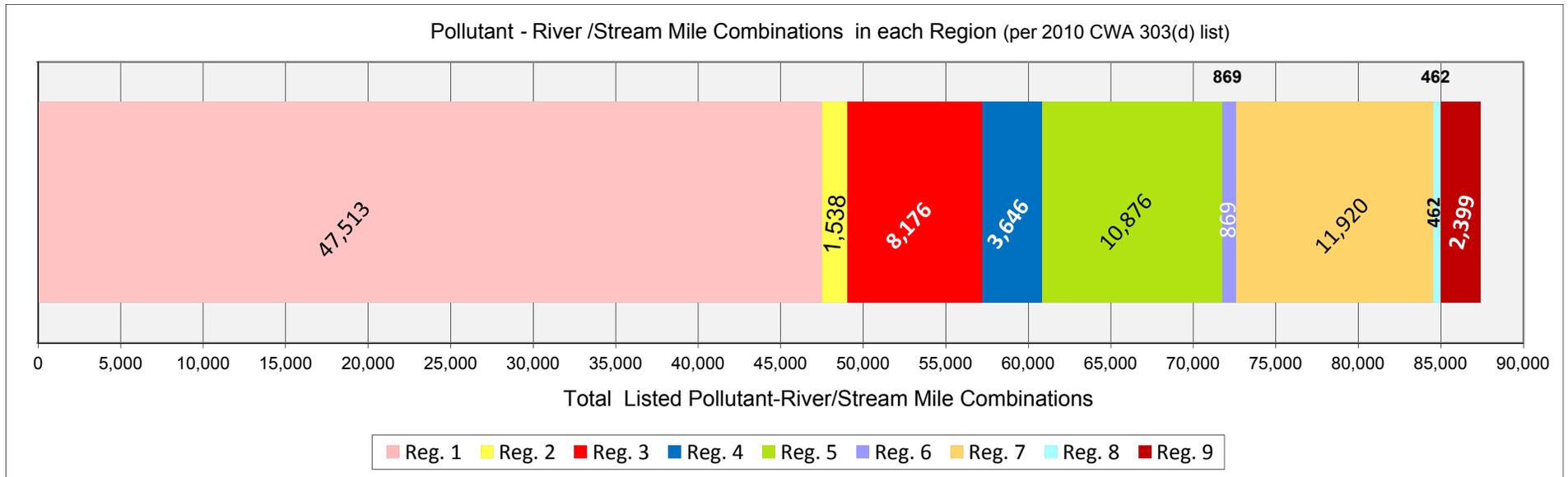
"TMDL Commitments Completed" is based upon data entered into TMDL Tracking Database as of the 5th of the month following the report period.  
\* 5 of the 60 tasks were dependent on State Board staff actions related to the Integrated Report.

## Scope of the Statewide Problem

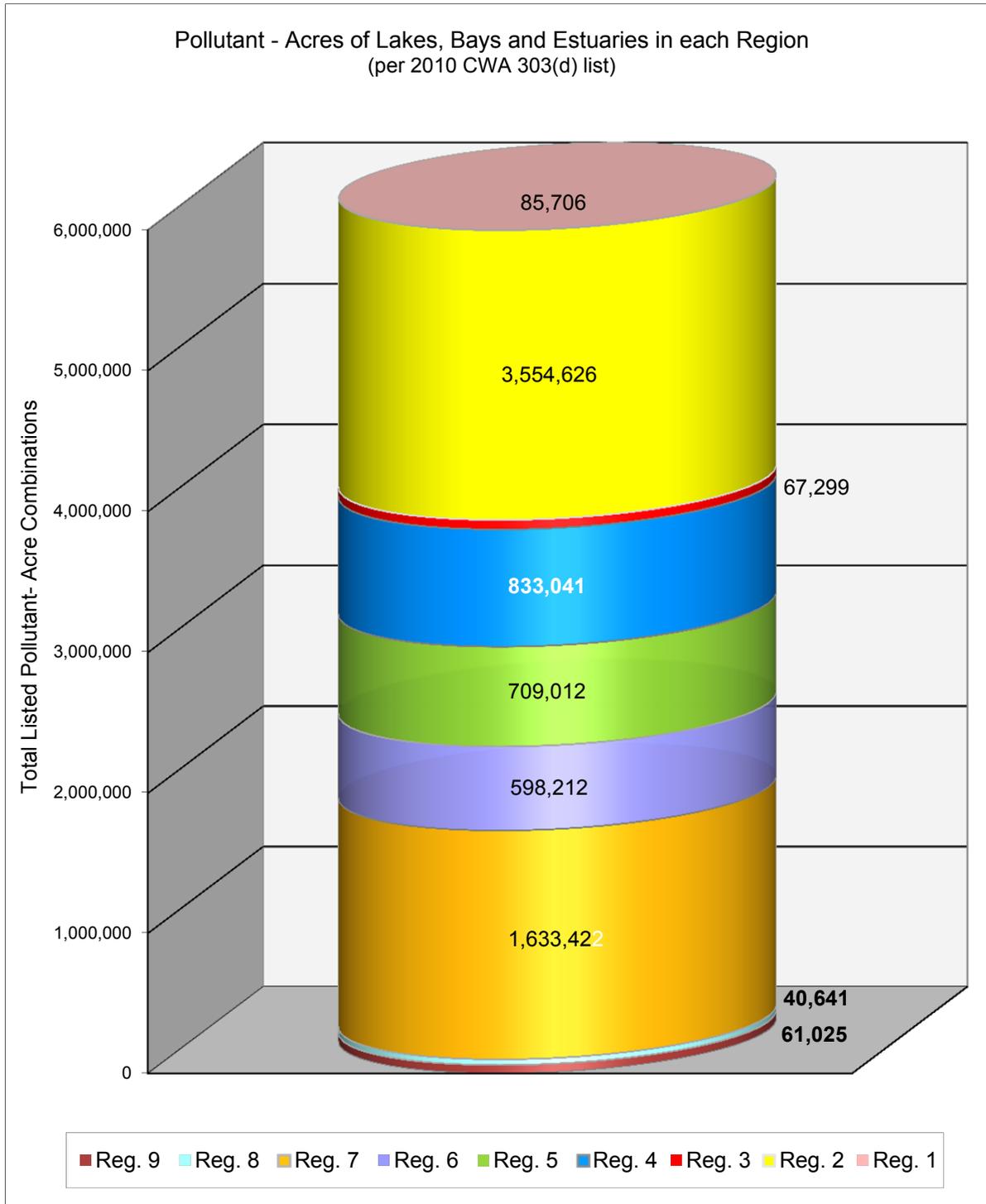
# Scope of the Problem



# Scope of the Problem



## Scope of the Problem



## Fiscal Year 2012 – 2013

Regional Water Board  
TMDL Adoption Commitments for FY 12-13

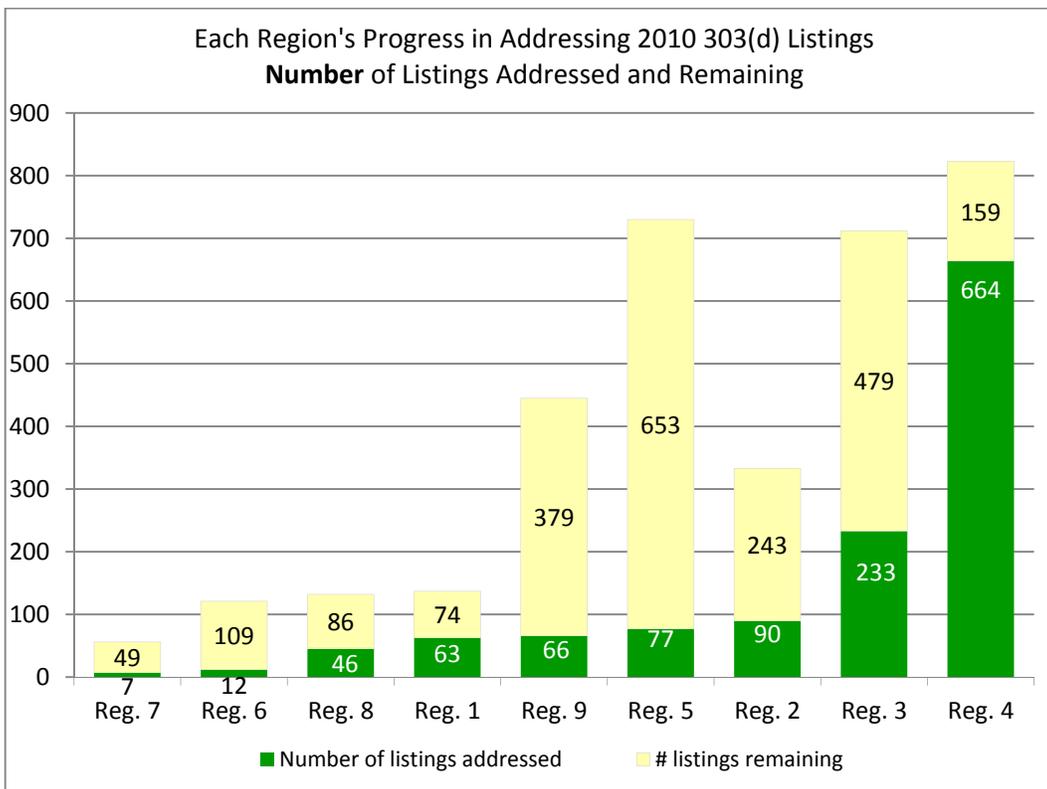
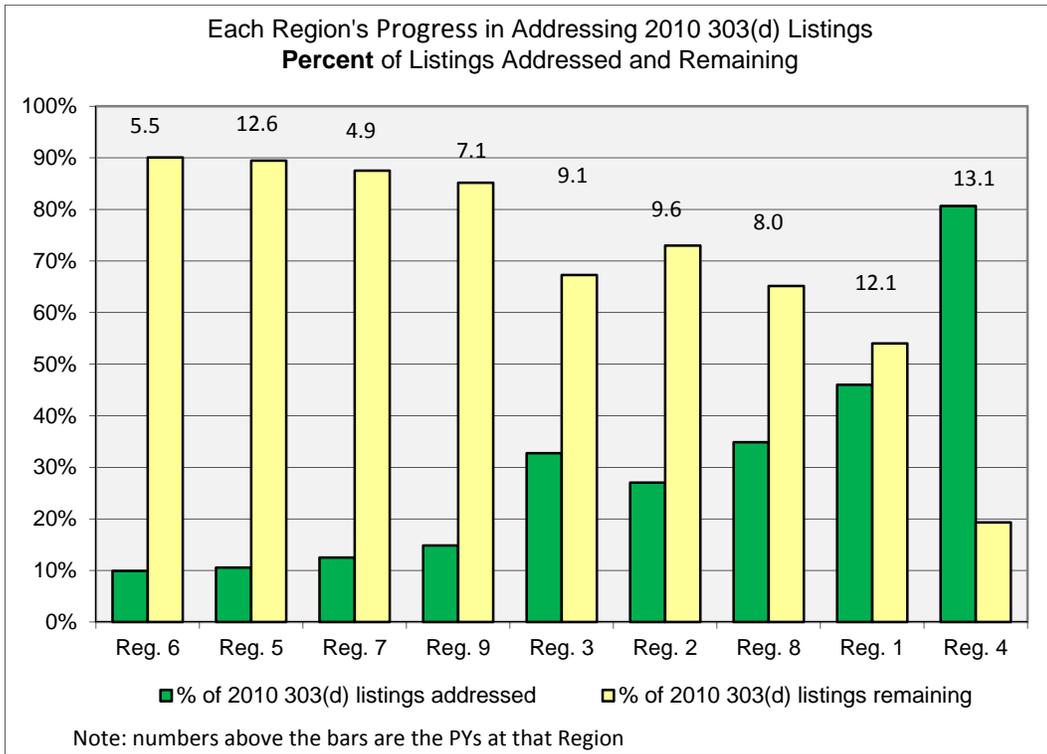
Region	TMDL Project	Scheduled Adoption Date	Adopted	# listings
1	<i>Eel River, Middle Fk, Wilderness &amp; Black Butte HSAs</i> Temperature	6/13	no	1
	<i>Eel River, North Fk, Upper North Fork Watershed</i> Temperature	6/13	no	1
2	<i>San Mateo Coast Pathogens (Pacifica Beaches and San Pedro Creek)</i>	11/12	Yes	2
	<i>Lagunitas Creek Sediment</i>	4/13	no	1
3	<i>Arroyo Paredon Diazinon</i>	12/12	Yes	2
	<i>Salinas River nutrients</i>	2/13	Yes	45
	<i>Santa Maria River Watershed nutrients</i>	3/13	Yes	36
	<i>Santa Maria River Watershed pesticides</i>	3/13	no	8
4	<i>Avalon Beach bacteria indicators (non CD)</i>	7/12	Yes	1
	<i>Ventura River algae/nutrients (88)</i>	12/12	Yes	6
	<i>Los Angeles River nitrogen (11) (Re-consideration)</i>	12/12	Yes	(34)
	<i>San Gabriel River metals (39)</i>	12/12	Yes	9
	<i>Los Cerritos Channel metals (84)</i>	4/13	Yes	3
	<i>Marina Del Rey toxics (54)</i>	4/13	no	6
	<i>Ballona Creek toxics (55)</i>	5/13	no	12
	<i>Ballona Creek metals (57)</i>	5/13	no	15
5	<i>Sacramento and San Joaquin pesticides</i>	2/13	no	63
6				0
7	<i>Alamo River Chlordane, Chlorpyrifos, DDT, Diazinon, Dieldrin, &amp; Toxaphene</i>	1/13	no	6
	<i>Imperial Valley Drains Chlordane, DDT, Dieldrin, &amp; Toxaphene</i>	1/13	no	4
	<i>New River Chlordane, Chlorpyrifos, DDT, Diazinon, Dieldrin, &amp; Toxaphene</i>	1/13	no	6
8	<i>Canyon Lake bacteria</i>	6/13	no	1
9	<i>Mouth of Switzer Creek pesticides, PAHS</i>	2/13	no	2
	<i>Mouth of Chollas Creek, benethic effects, sediment toxicity</i>	2/13	no	2
	<i>7th Street Channel (Paleta Creek Mouth) sediment toxicity</i>	2/13	no	2
	<i>B Street and Broadway Piers</i>	6/13	no	2
	<i>Downtown Anchorage</i>	6/13	no	2

#TMDLs adopted/addressed: 9  
 # TMDLs Listings addressed: 104  
 TMDL adoption commitments: 24  
 Total number of listings **to be** addressed: 238  
 # TMDLs not adopted/addressed to date: 17  
 % of FY 12-13 adoption commitments met: 38%

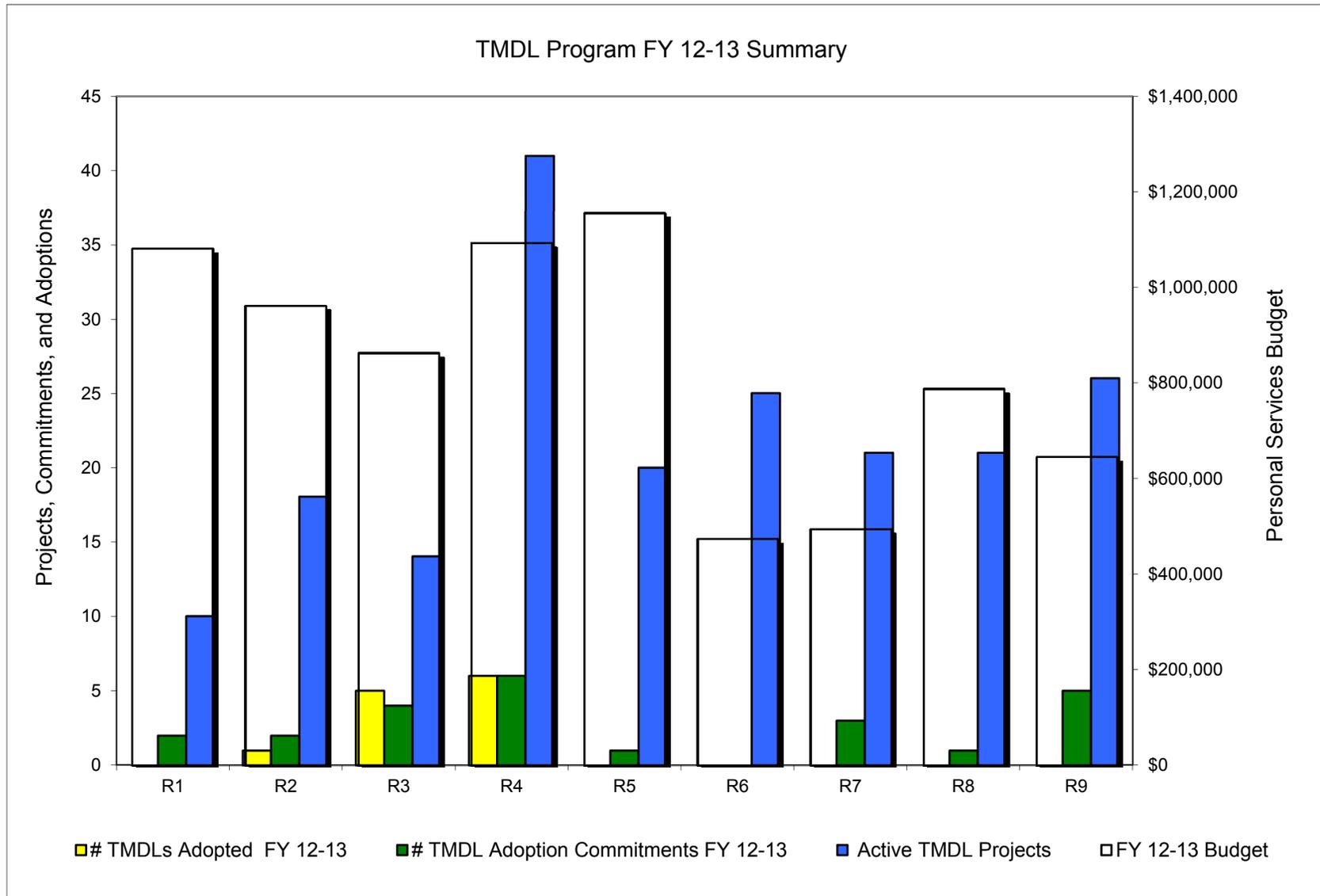
## TMDLs Submitted to the State Board for Consideration

TMDLs Actions by the State Board in FY 12-13 (July 2012 - June 2013)		
	State Board Action	Date
<b>Region 1</b>		
<b>Region 2</b>		
San Mateo Coast Pathogens Pacifica Beaches and San Pedro Creek	Approved	3/19/13
<b>Region 3</b>		
Santa Maria River Watershed Bacteria	Approved	10/16/12
<b>Region 4</b>		
Ventura River algae/nutrients (88)	Approved	2/19/13
Amendments to the: (1) Santa Monica Bay beaches; (2) Marina del Rey harbor, Mothers' Beach and Back Basins; (3) Los Angeles Harbor, Inner Cabrillo Beach, and Main Ship Channel; (4) Ballona Creek, Ballona Estuary, and Sepulveda Channel; and (5) Malibu Creek and Lagoon TMDLs	Approved	3/19/13
Los Angeles River nitrogen (11)	Approved	6/4/13
<b>Region 5</b>		
<b>Region 6</b>		
<b>Region 7</b>		
<b>Region 8</b>		
Newport Bay Watershed Organochlorine Compounds	Approved	10/16/12
<b>Region 9</b>		
Number of State Bd. Approvals	6	
Number of State Bd. Remands	0	

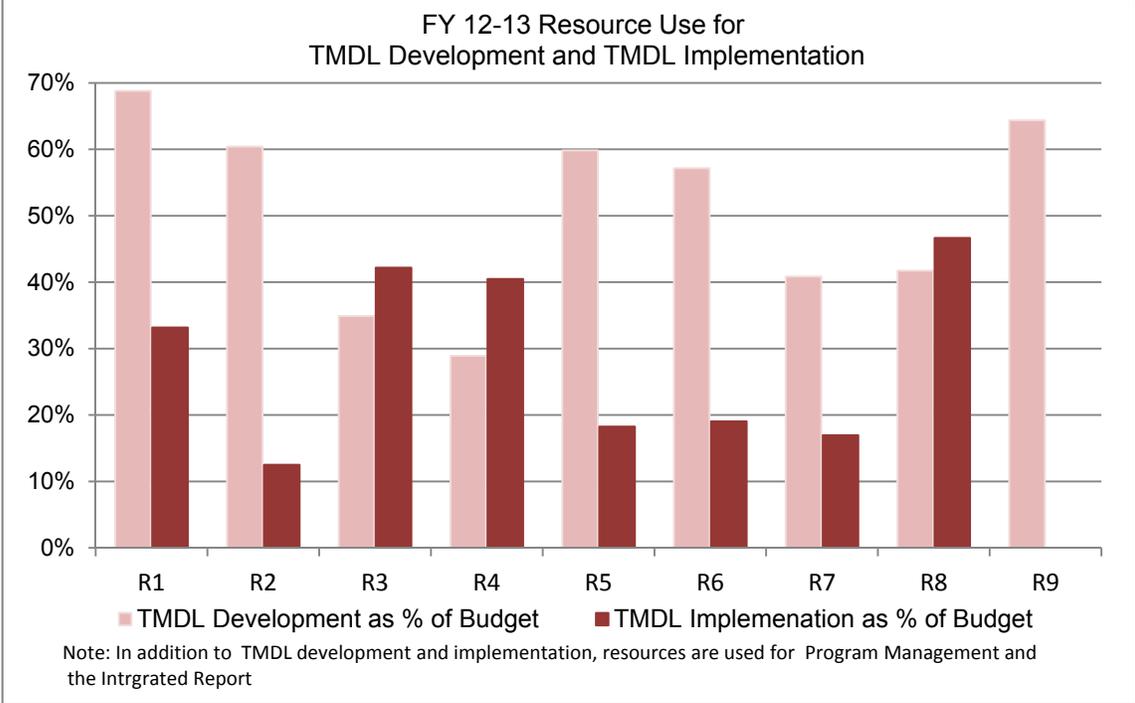
## Regional Board Progress in Addressing 303(d) Listings



## FY 12-13 TMDL Program Summary By Region

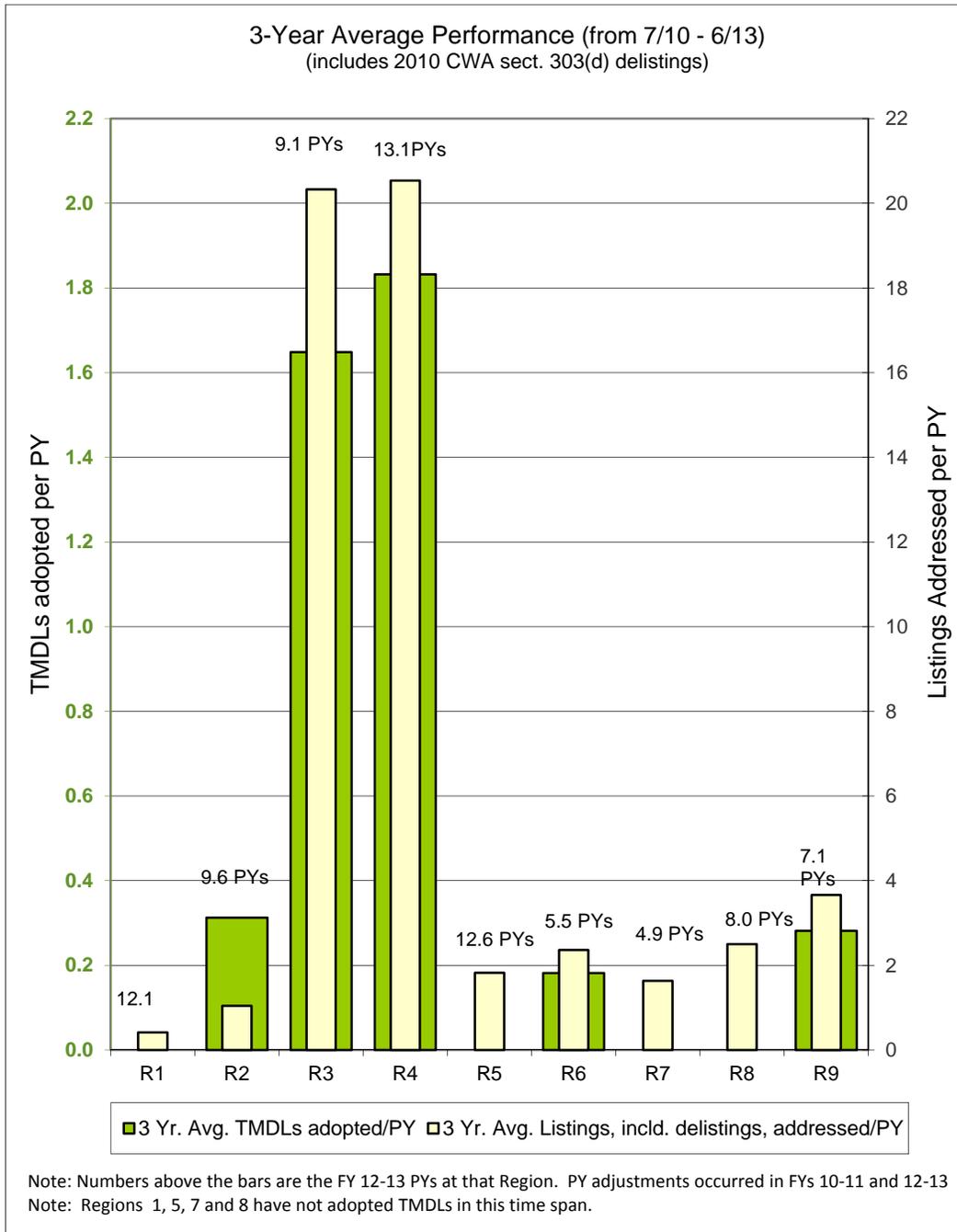


# FY 12-13 Resource Allocation

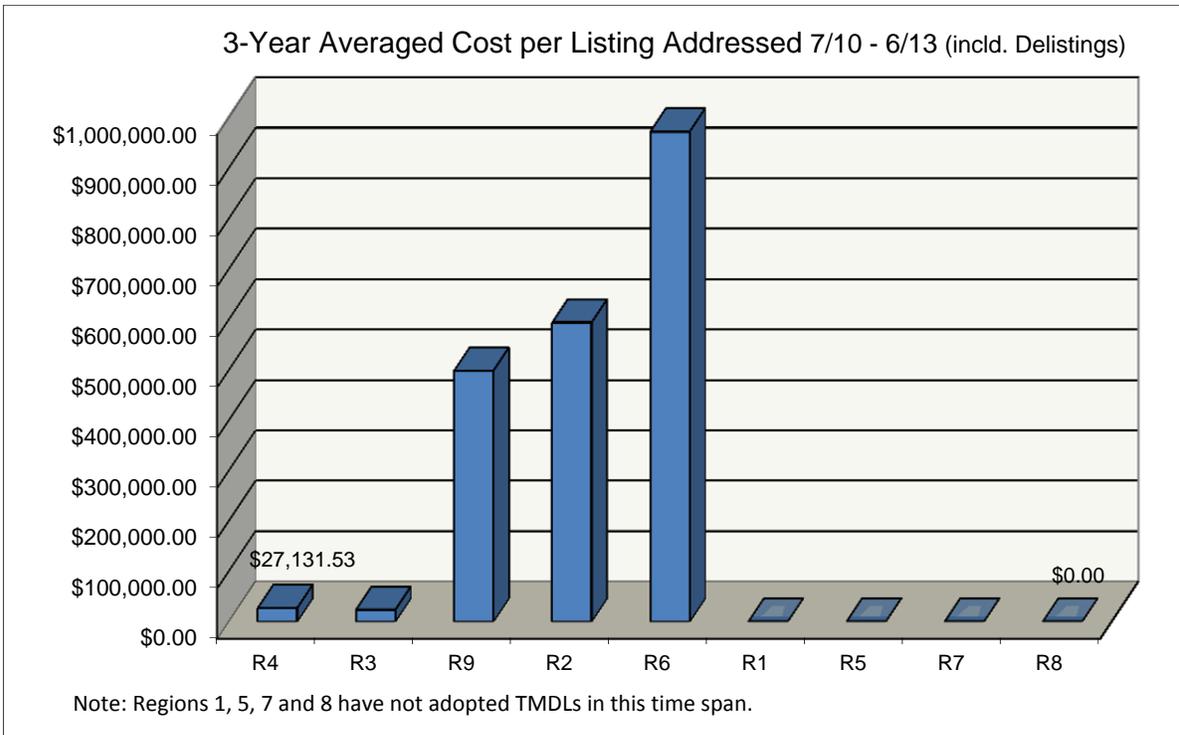
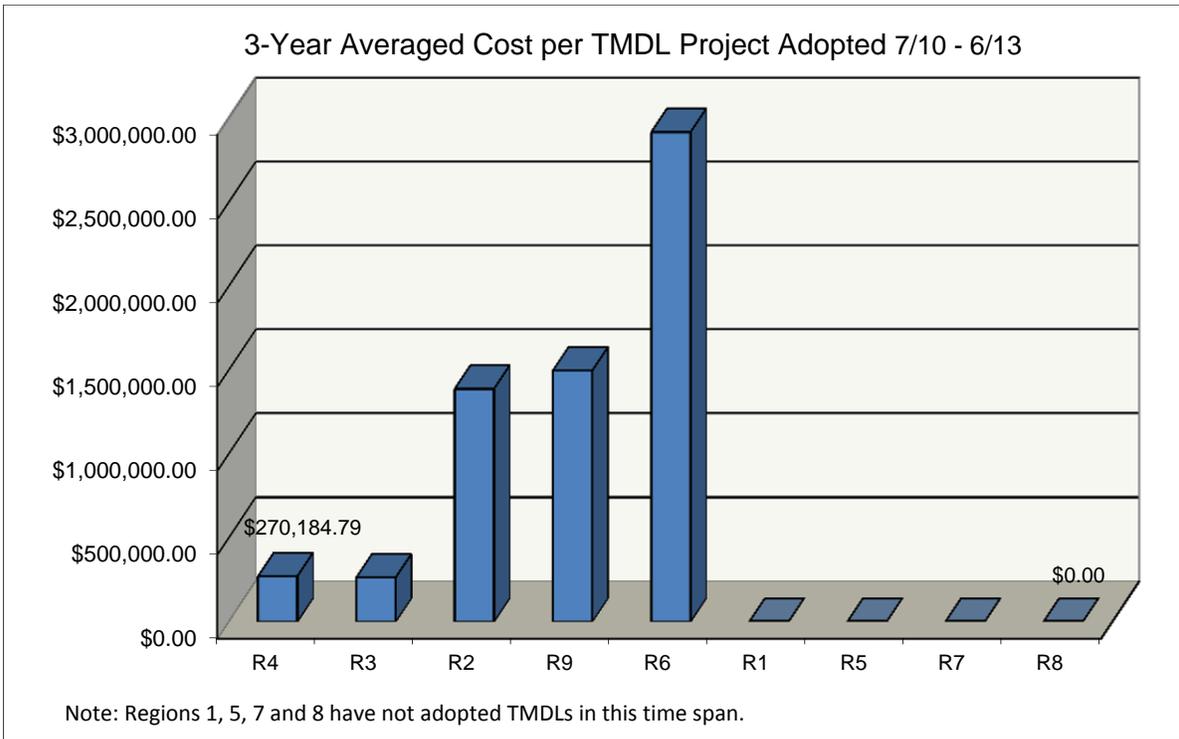


## Statewide Trends and Status

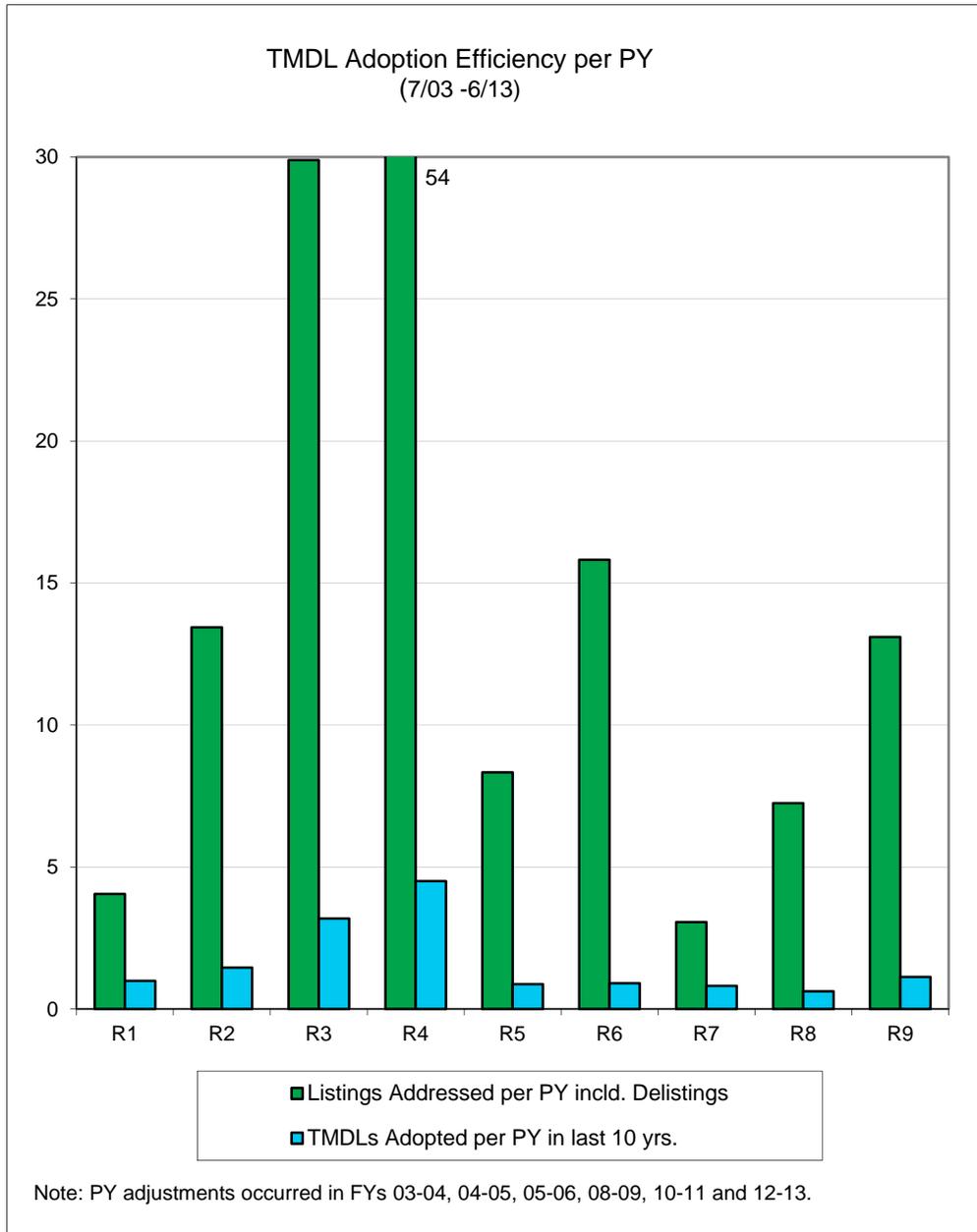
## Program Performance: 3-Year Averages



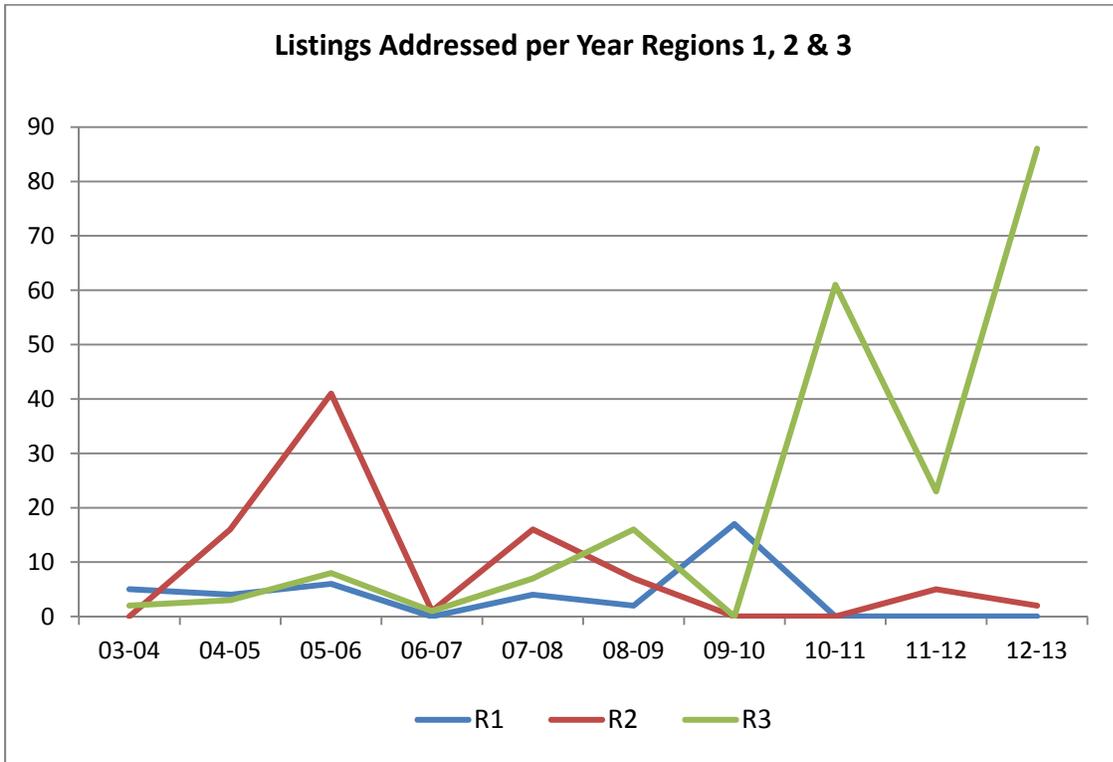
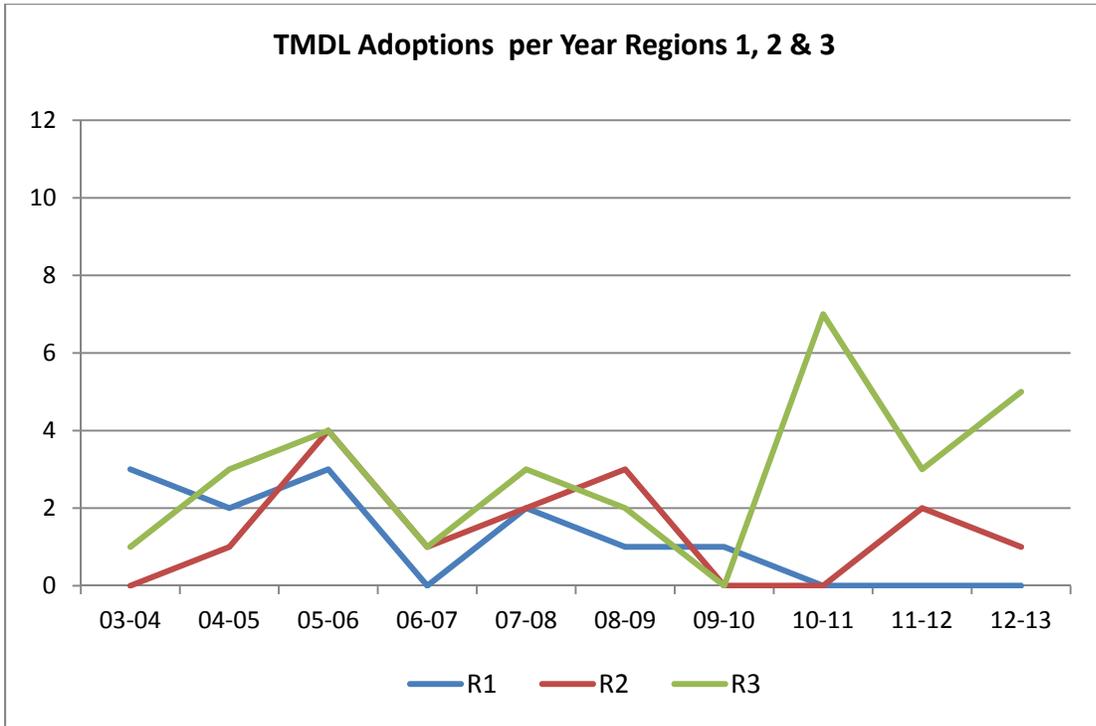
## Program Performance: 3-Year Averages



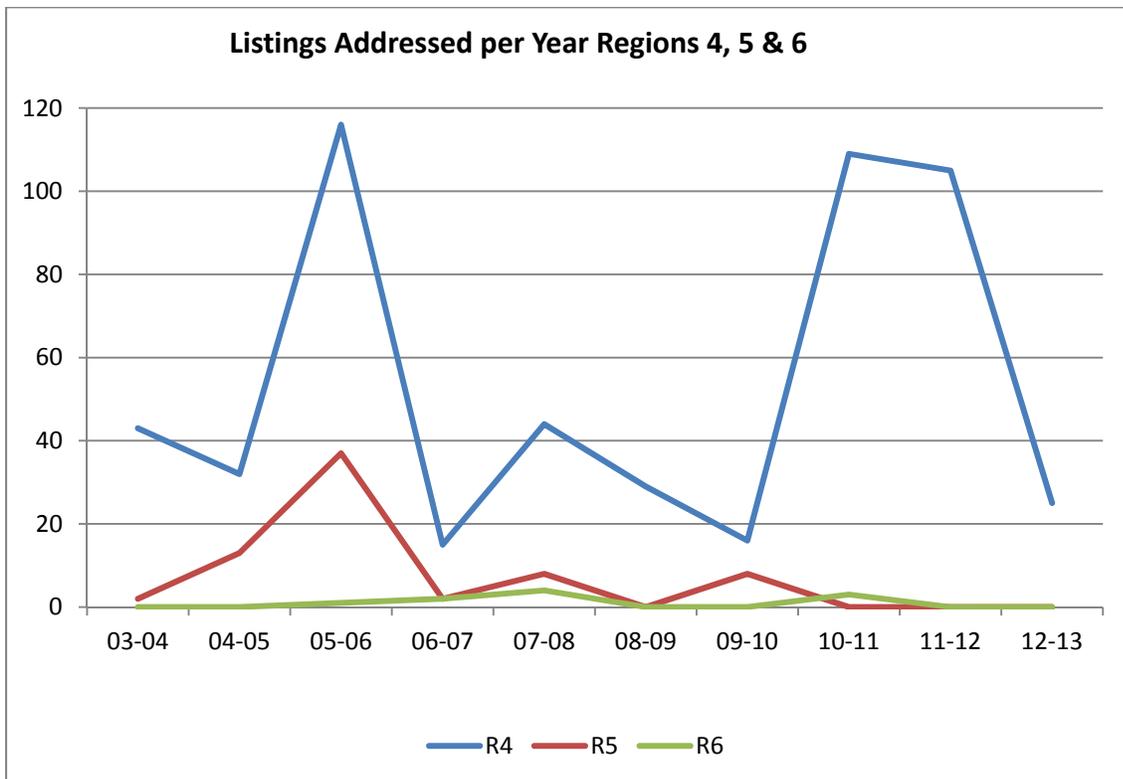
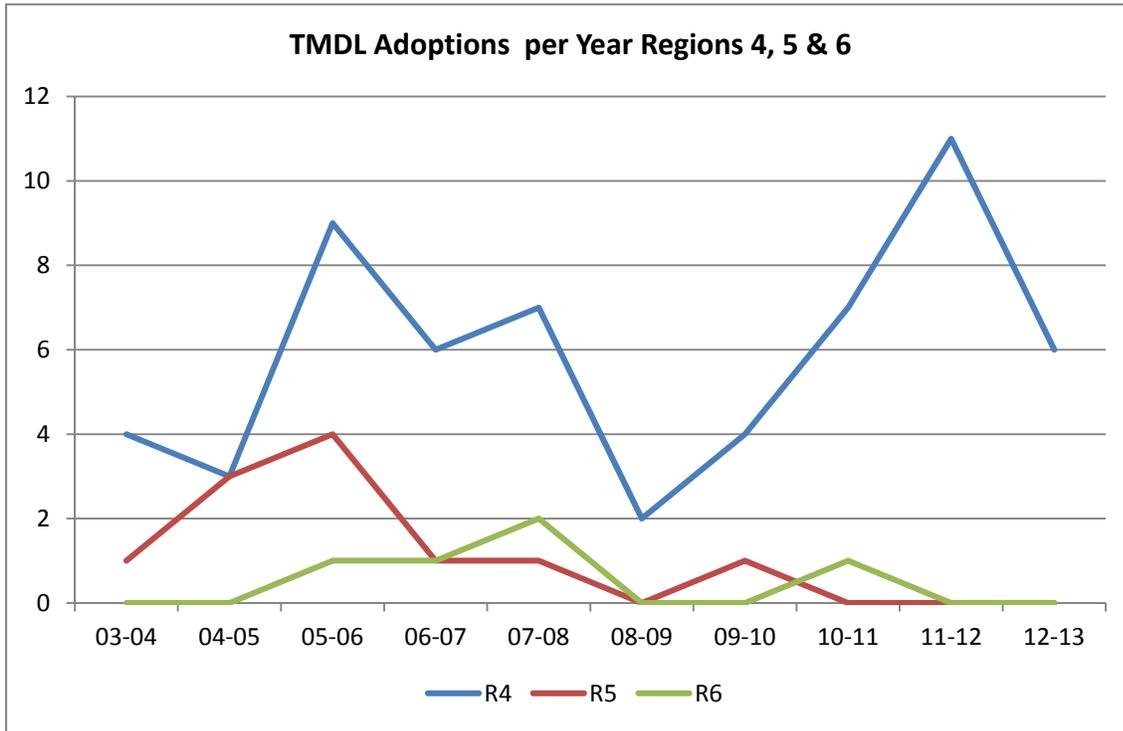
# Program Performance: 10-Year Trend



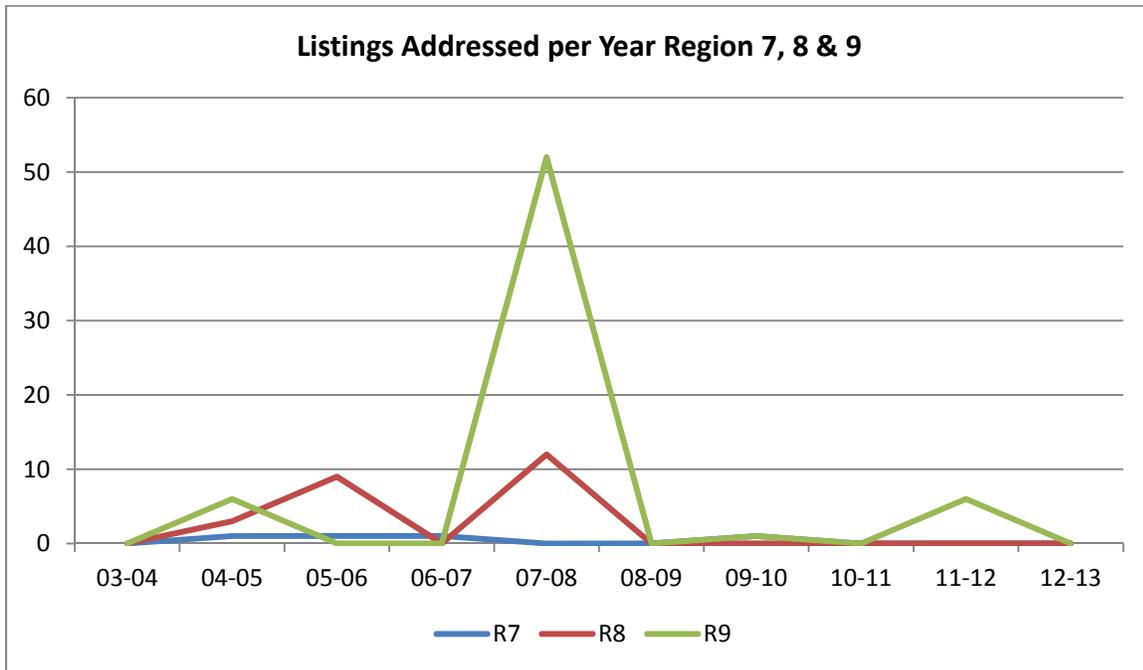
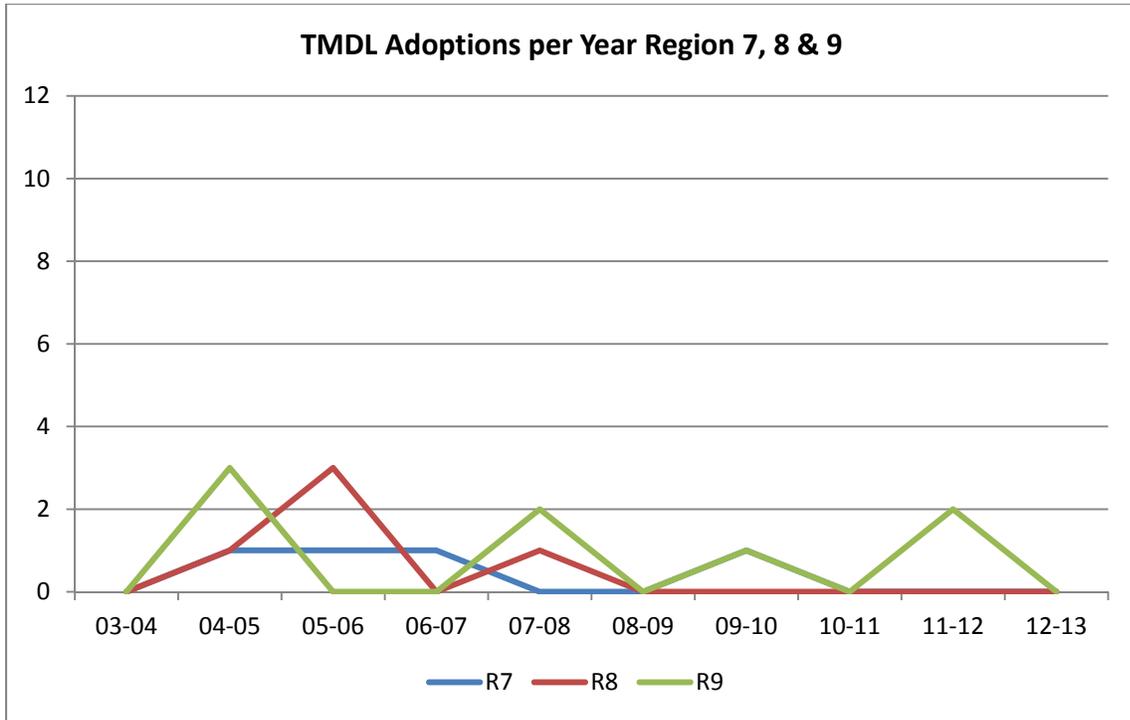
## Program Performance: 10-Year Trend By Region



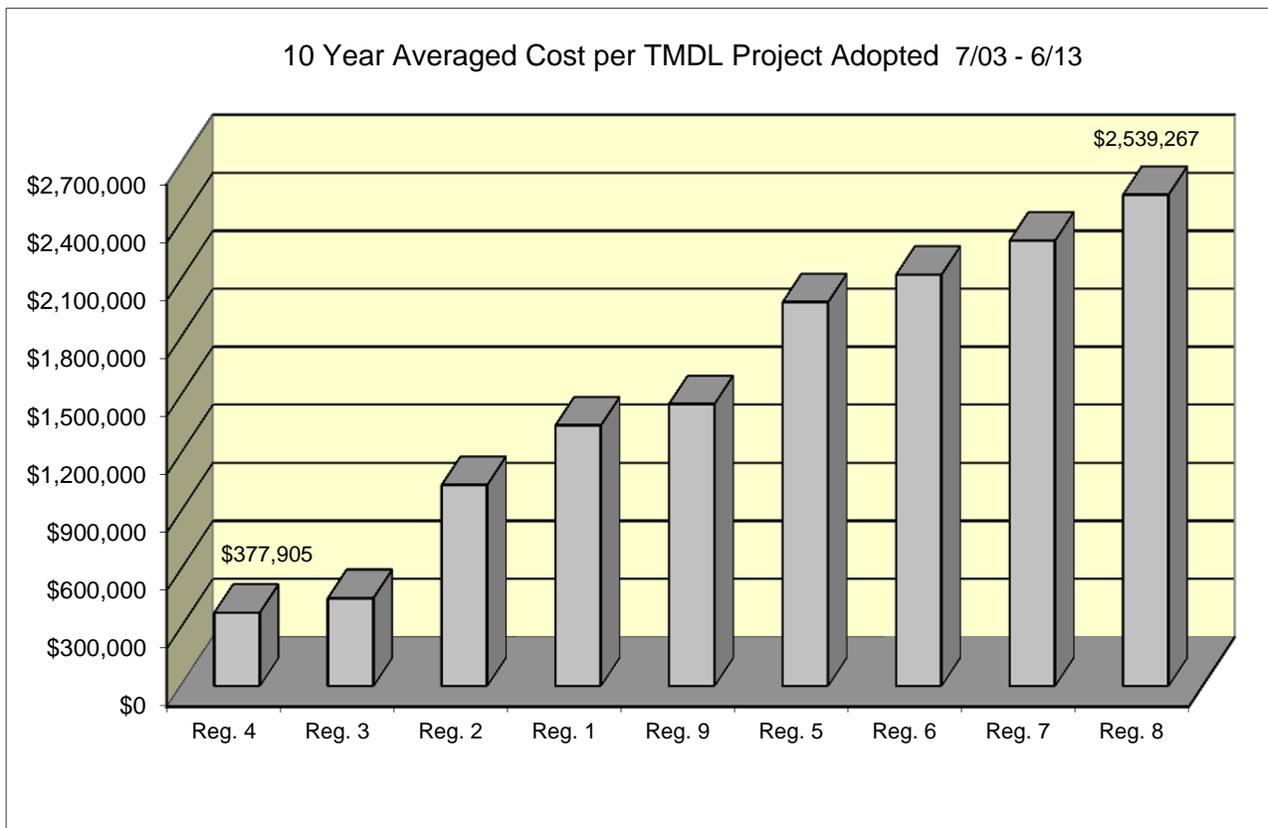
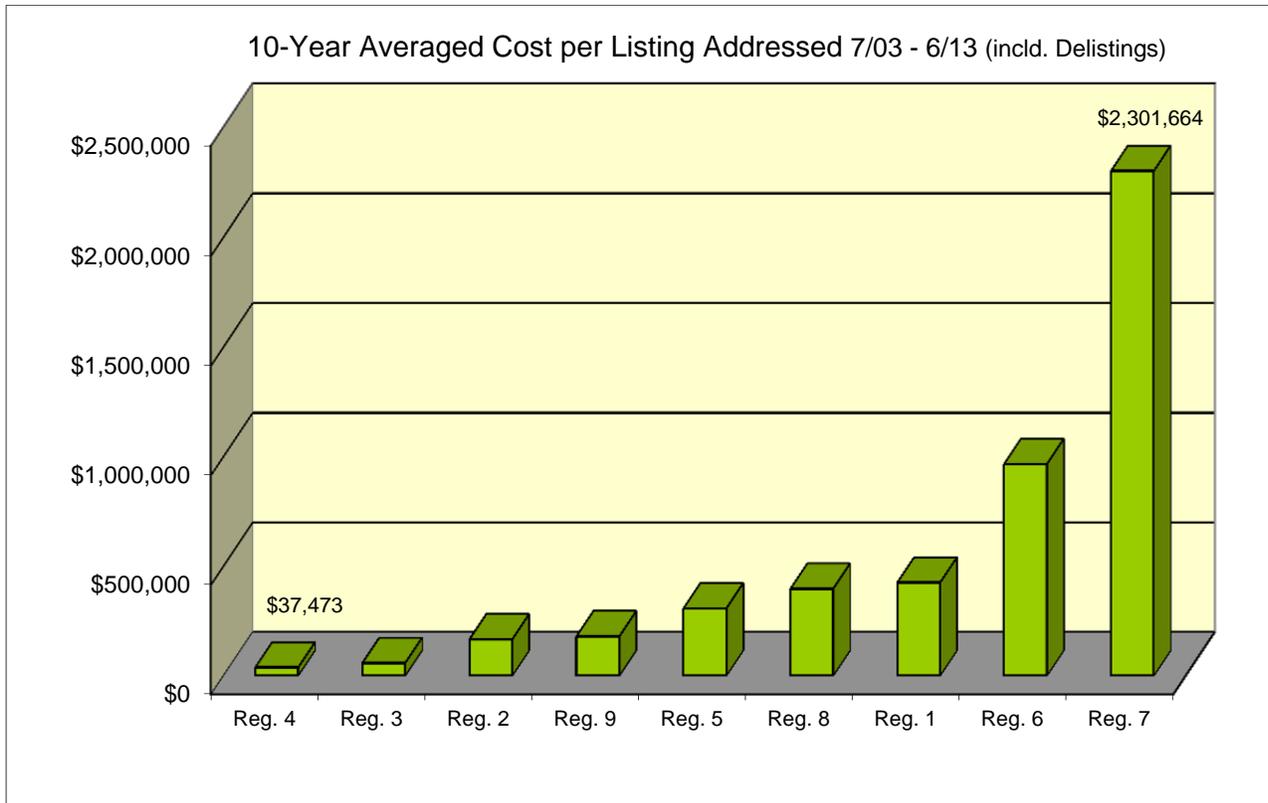
## Program Performance: 10-Year Trend By Region



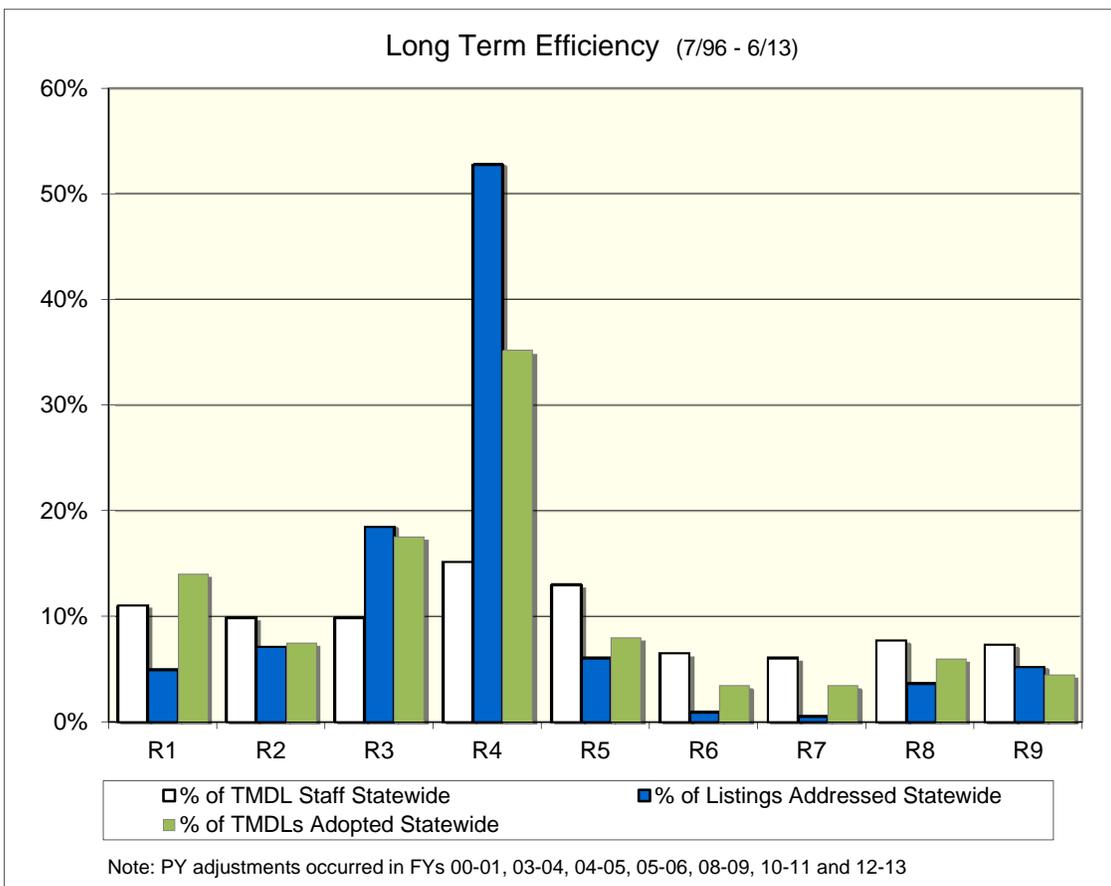
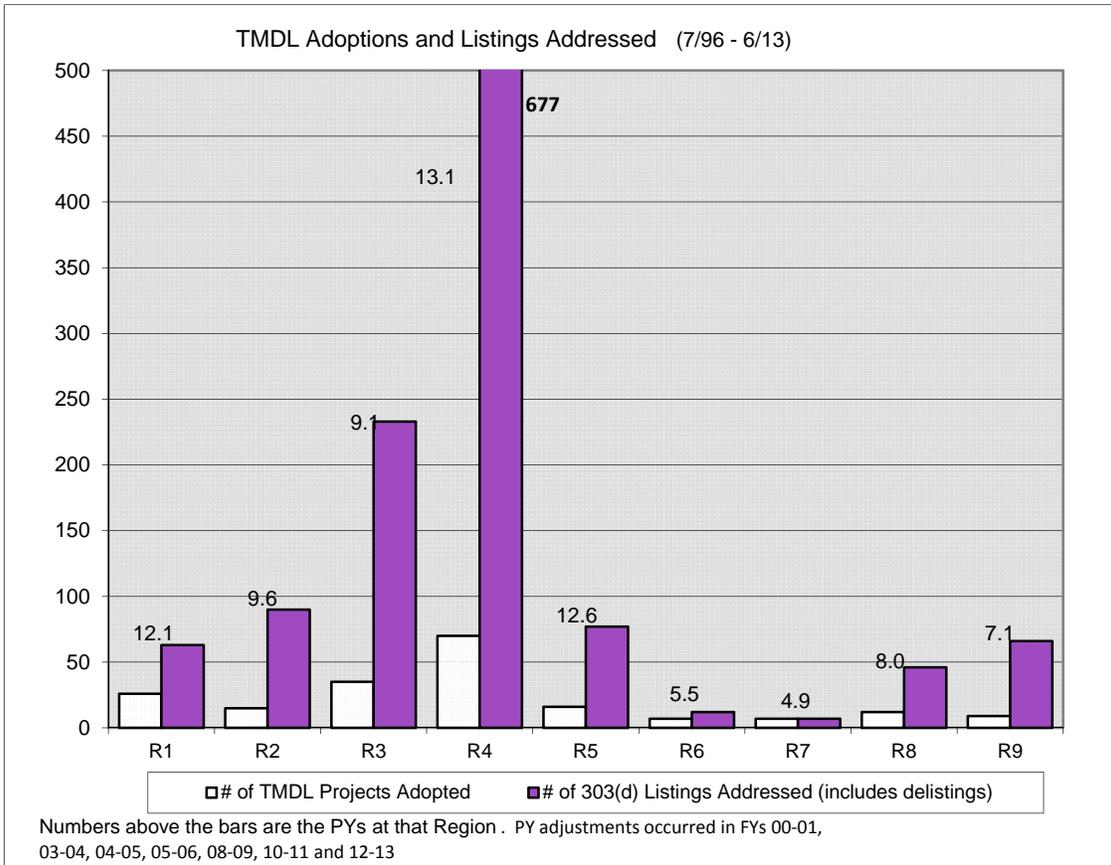
# Program Performance: 10-Year Trend By Region



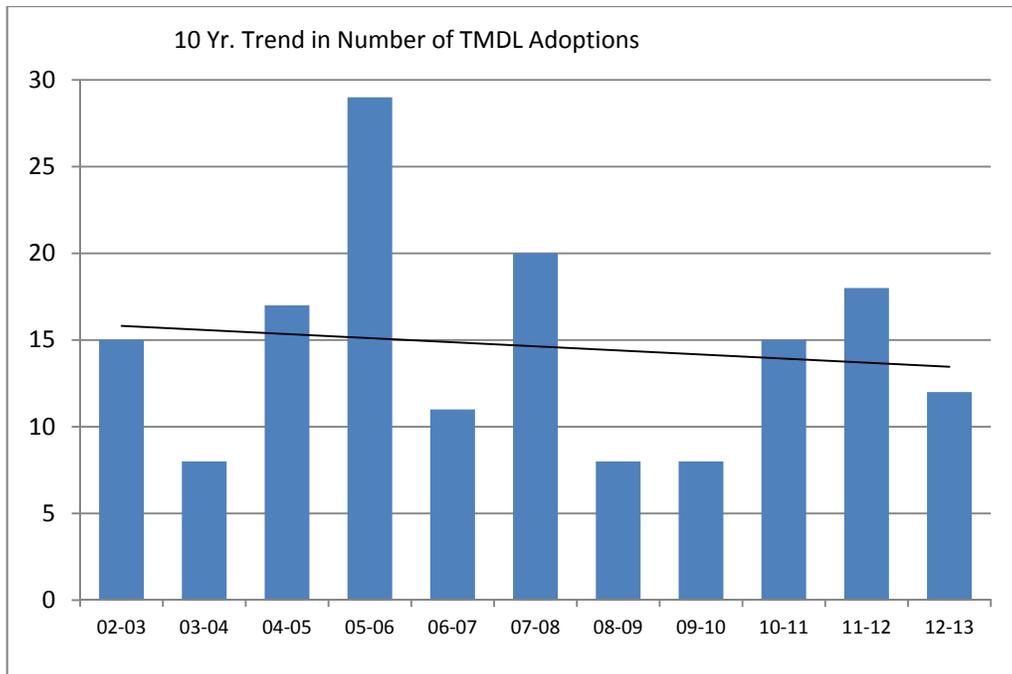
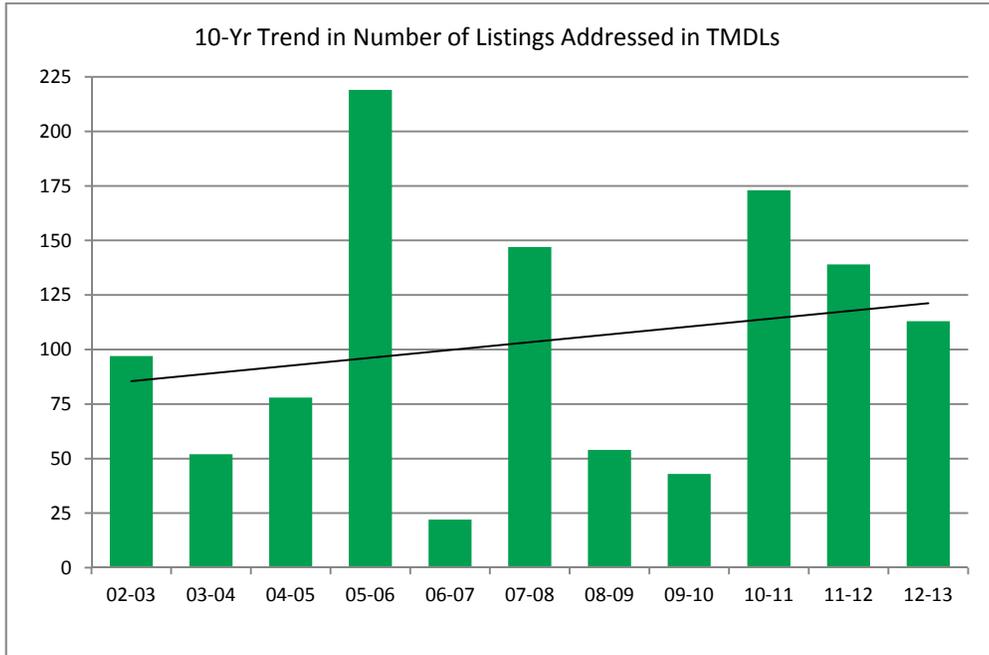
## Program Performance: 10-Year Averages - Costs



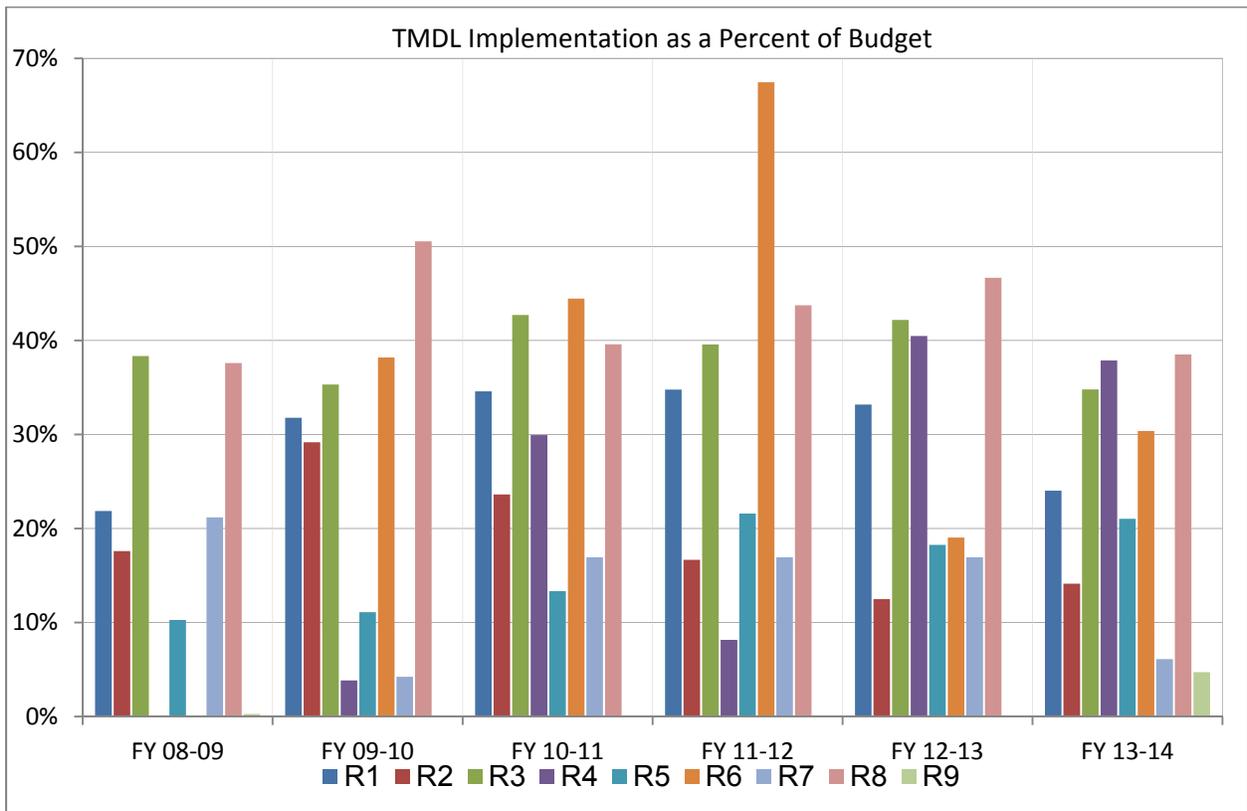
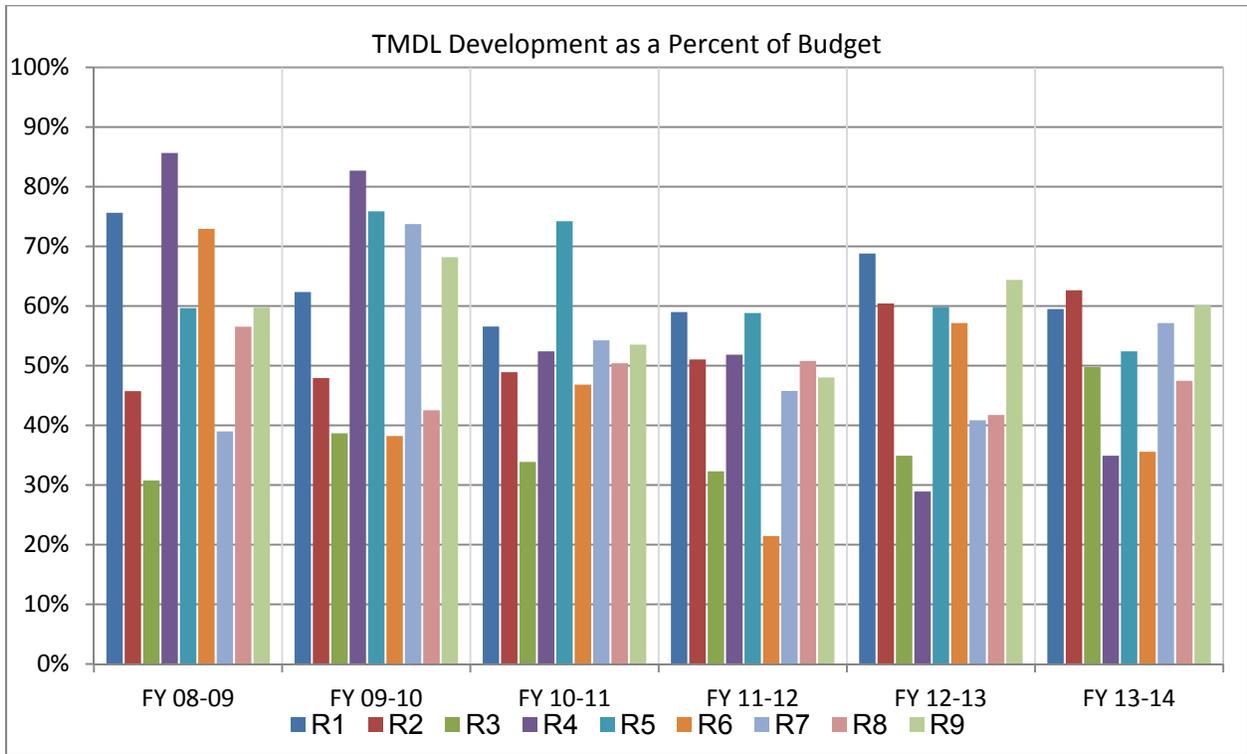
## Program Performance: Long Term Trends



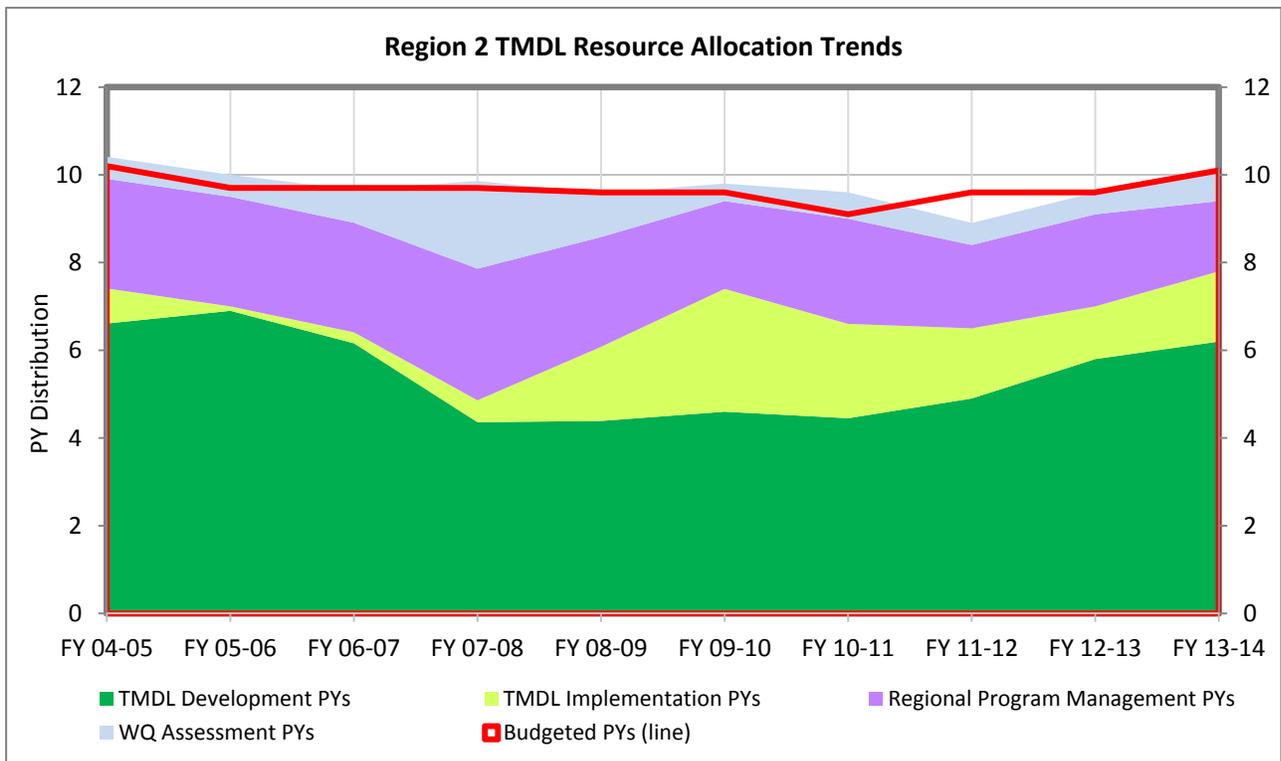
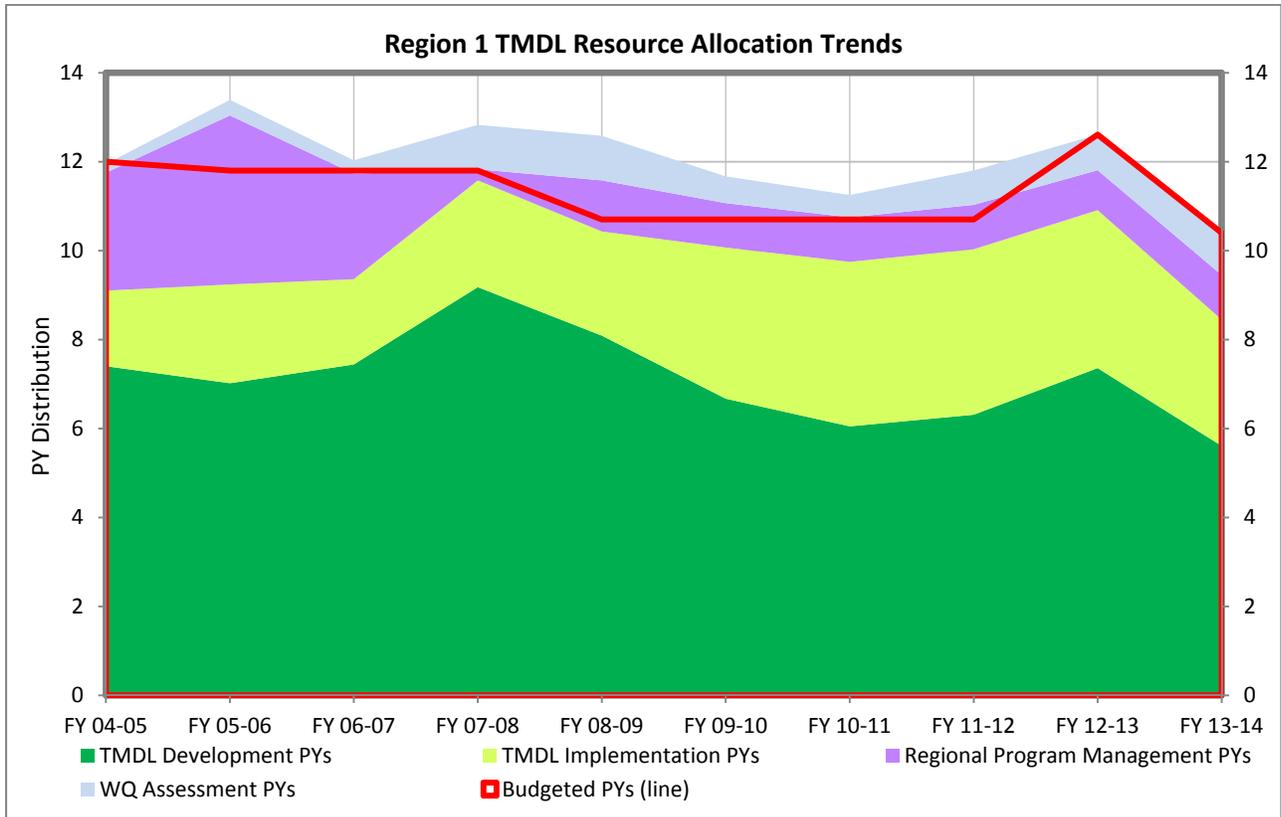
# Program Performance: 10-Year Trend Statewide



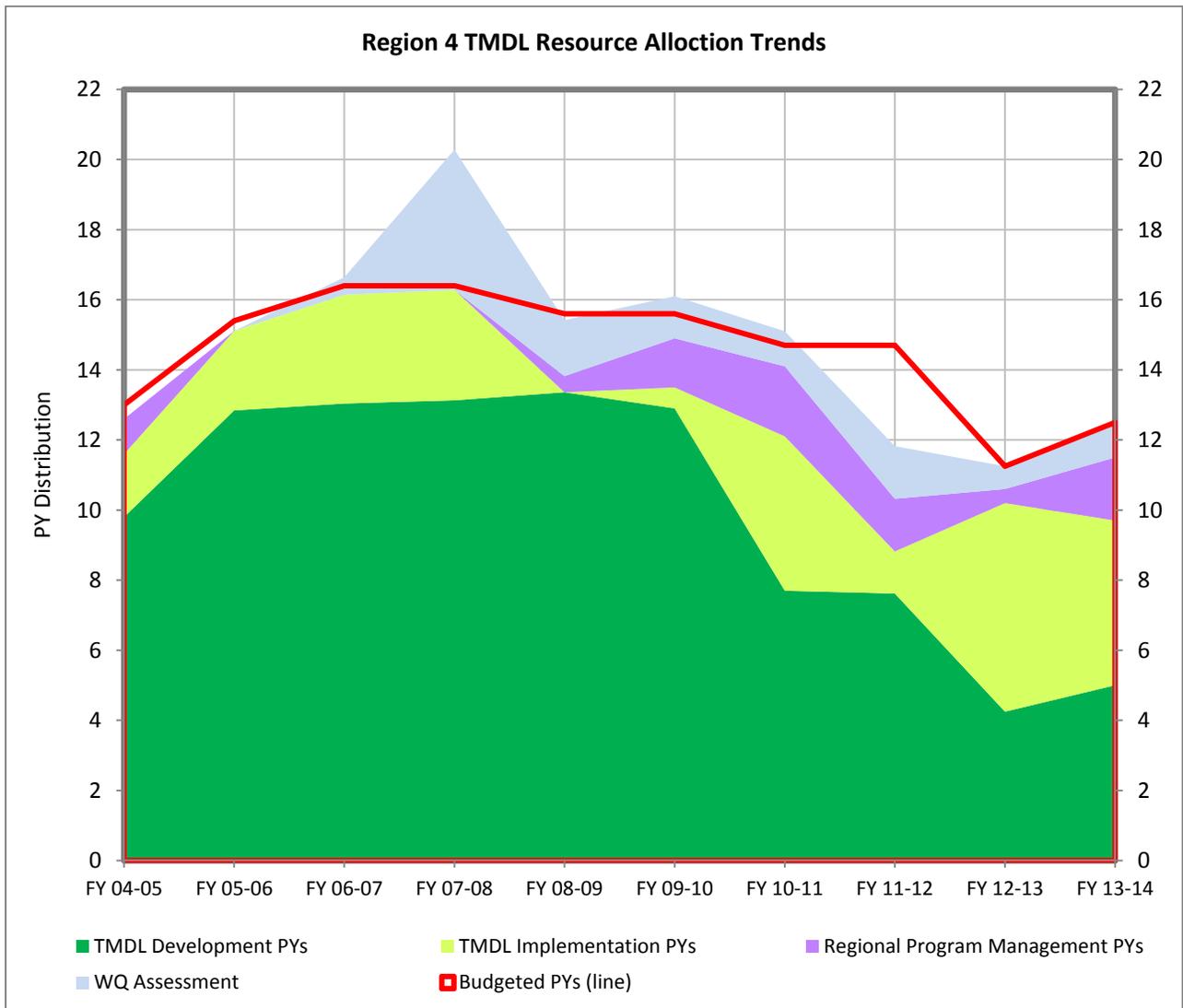
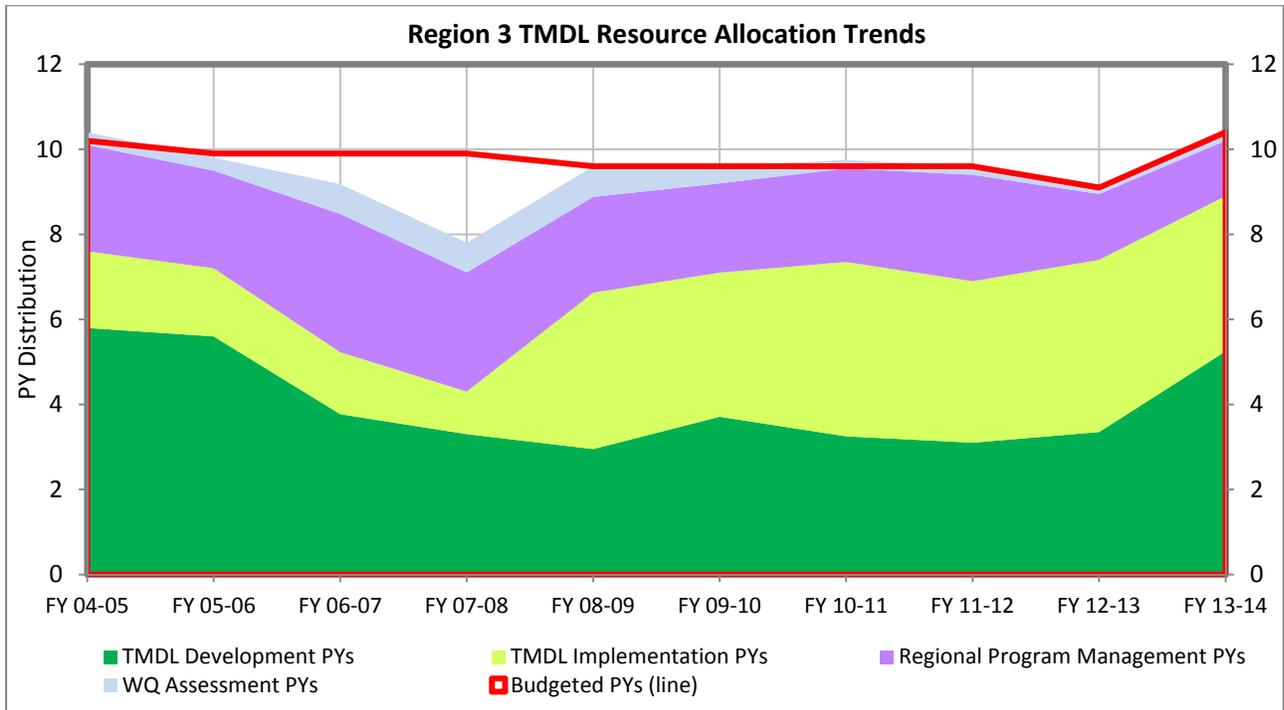
# Program Performance: Long Term Trends in Resource Allocation



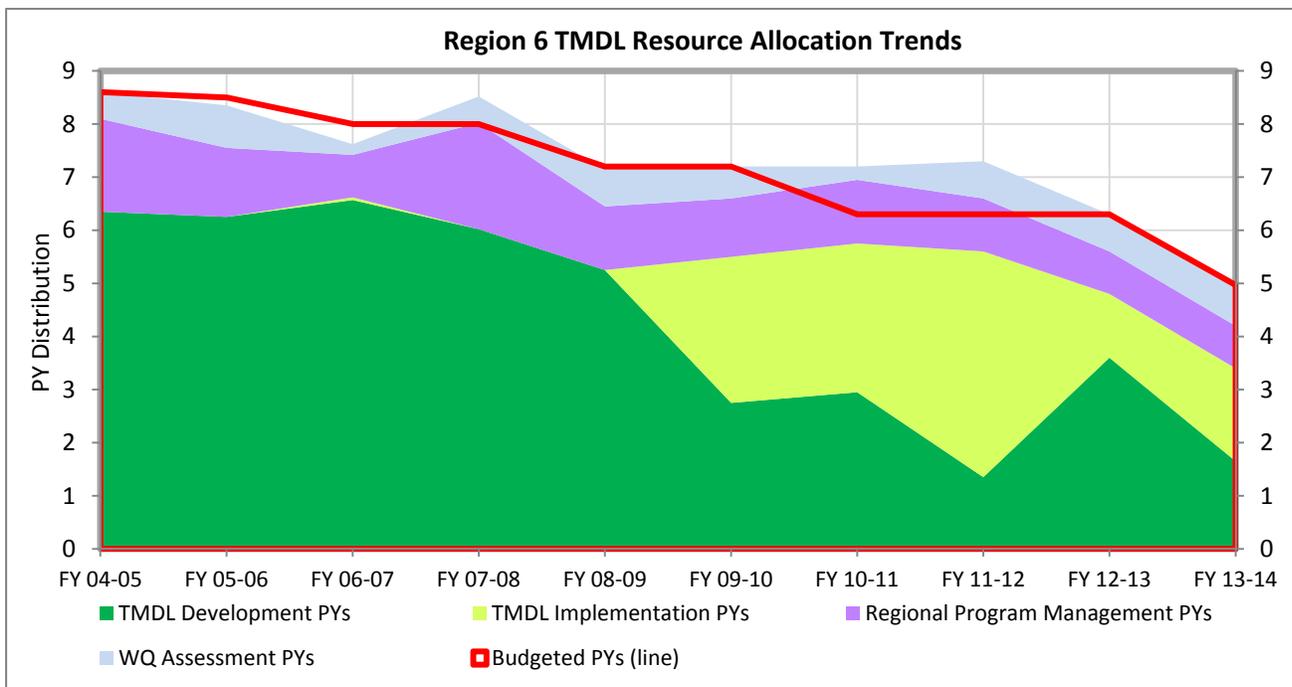
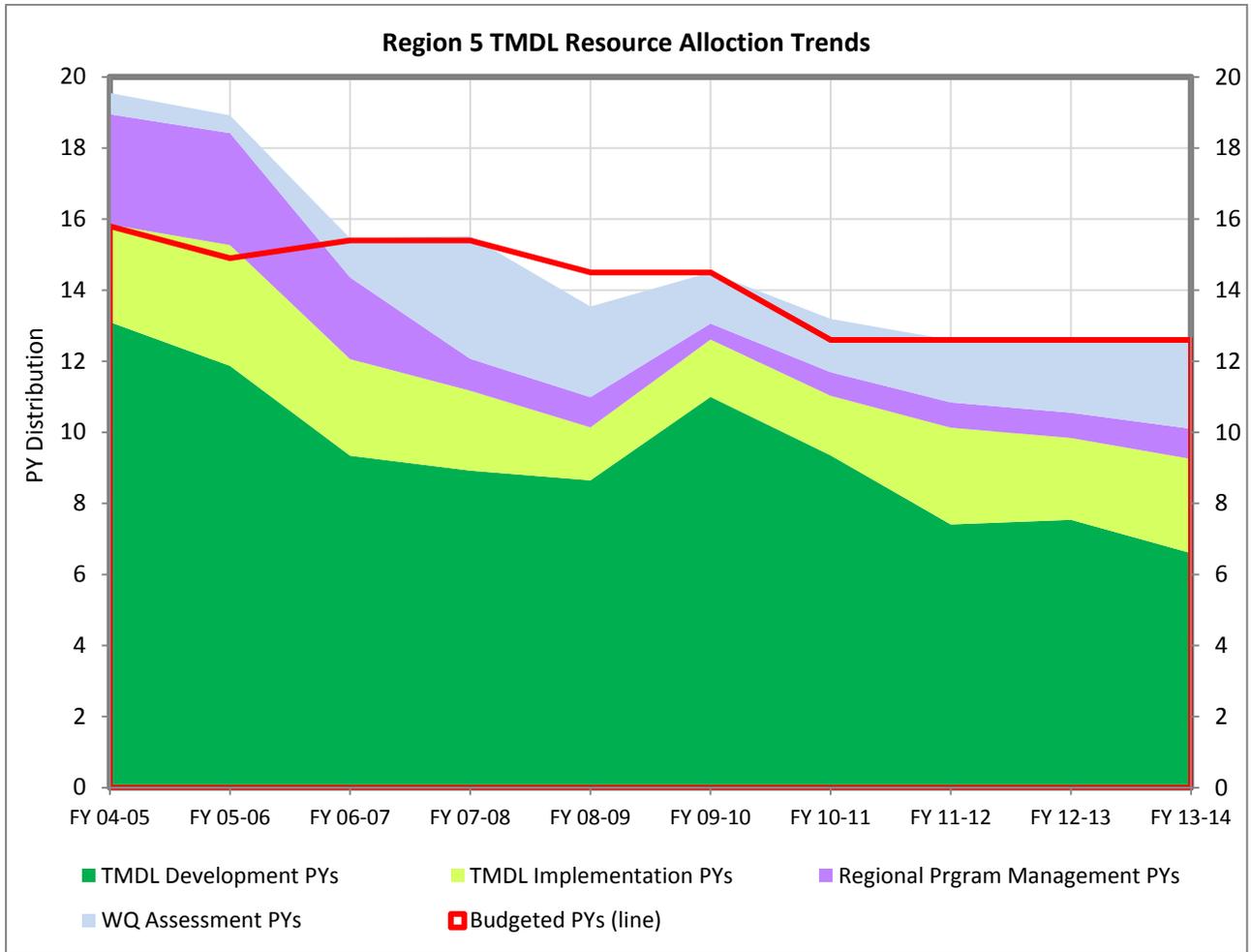
# Program Performance: Long Term Trends in Resource Allocation



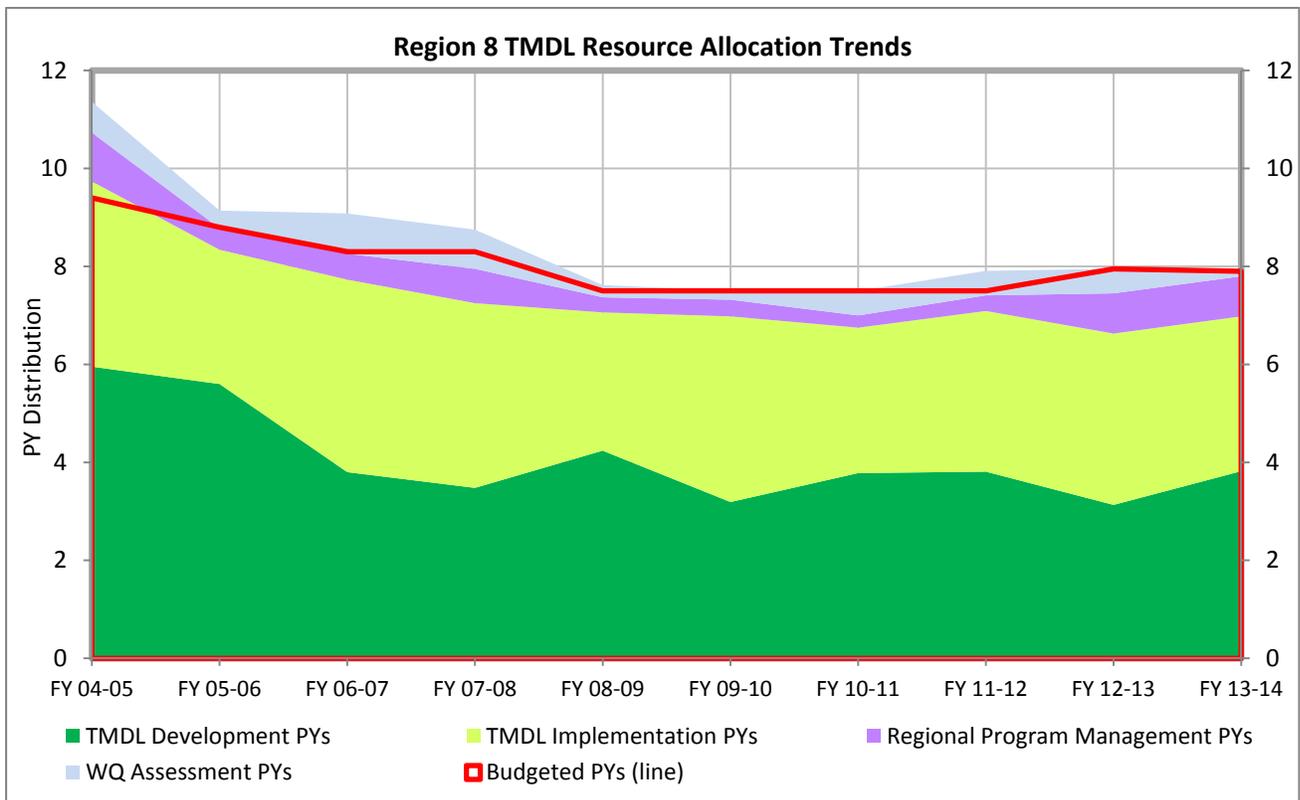
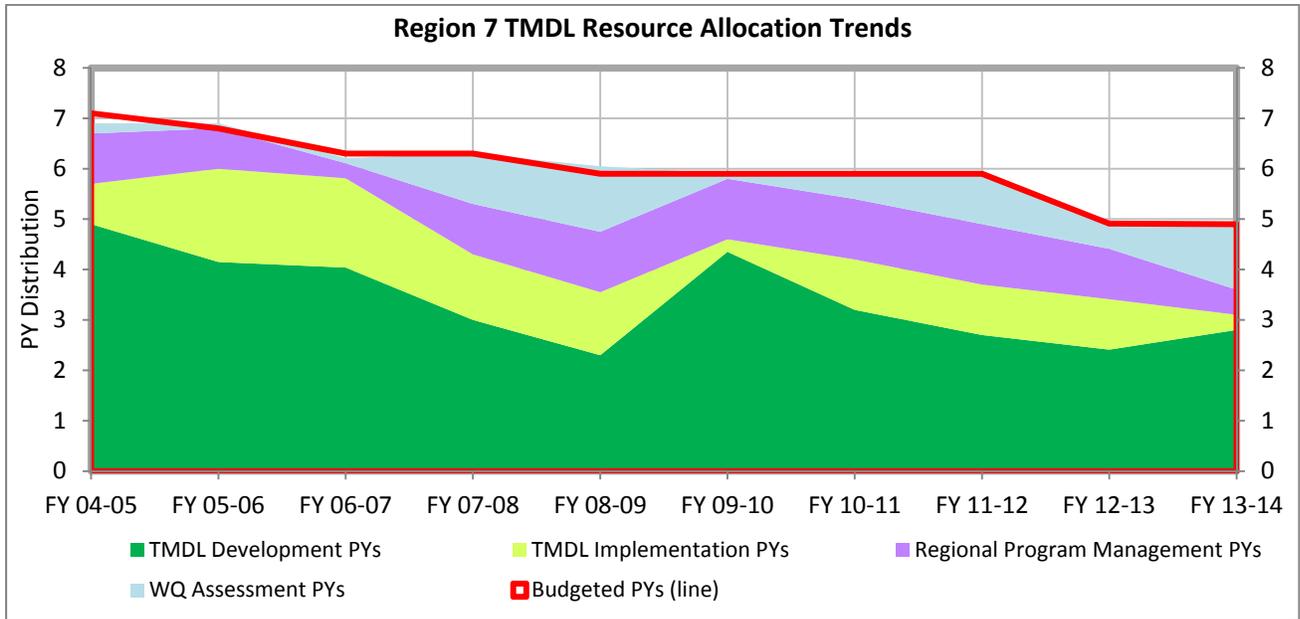
# Program Performance: Long Term Trends in Resource Allocation



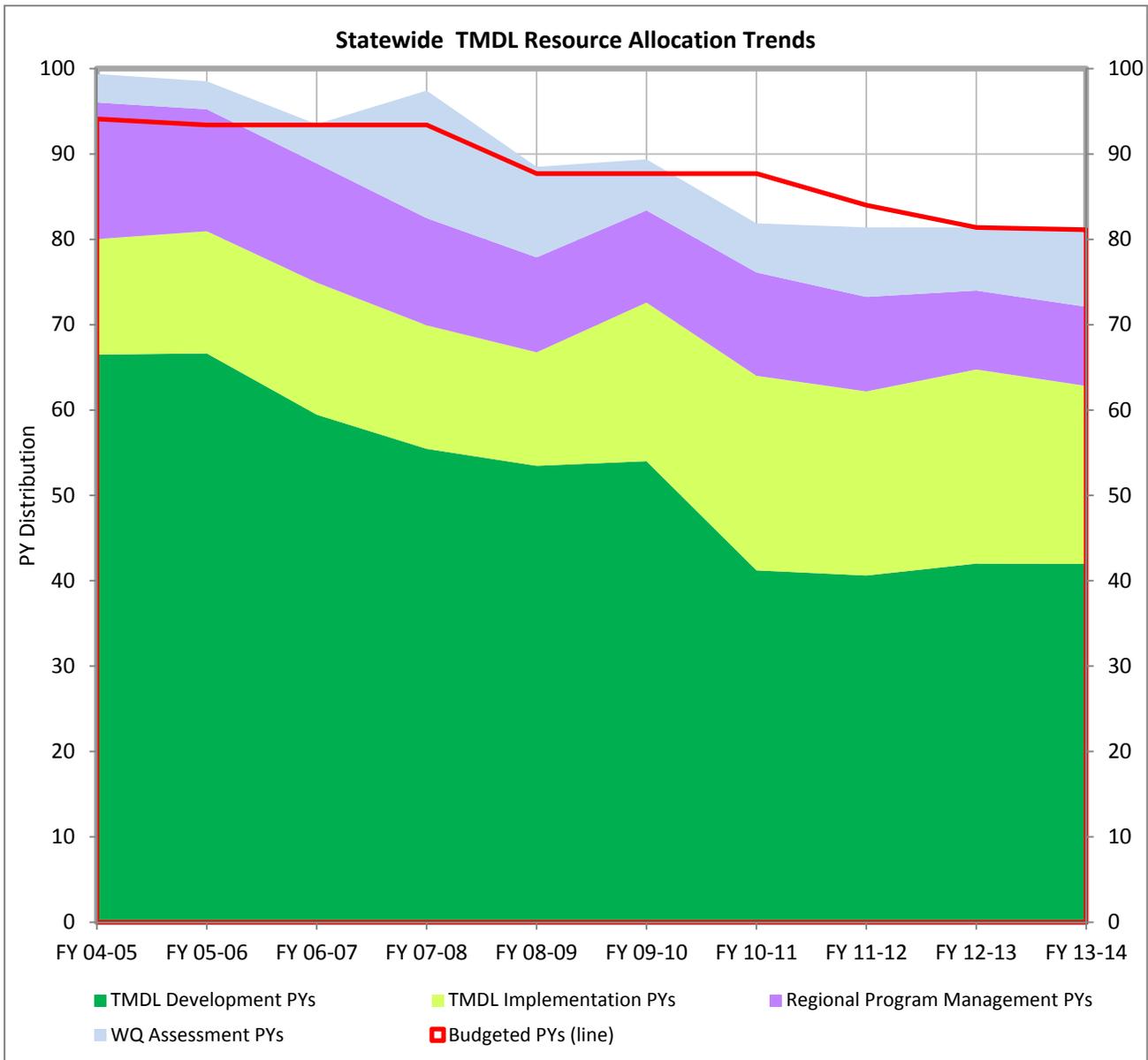
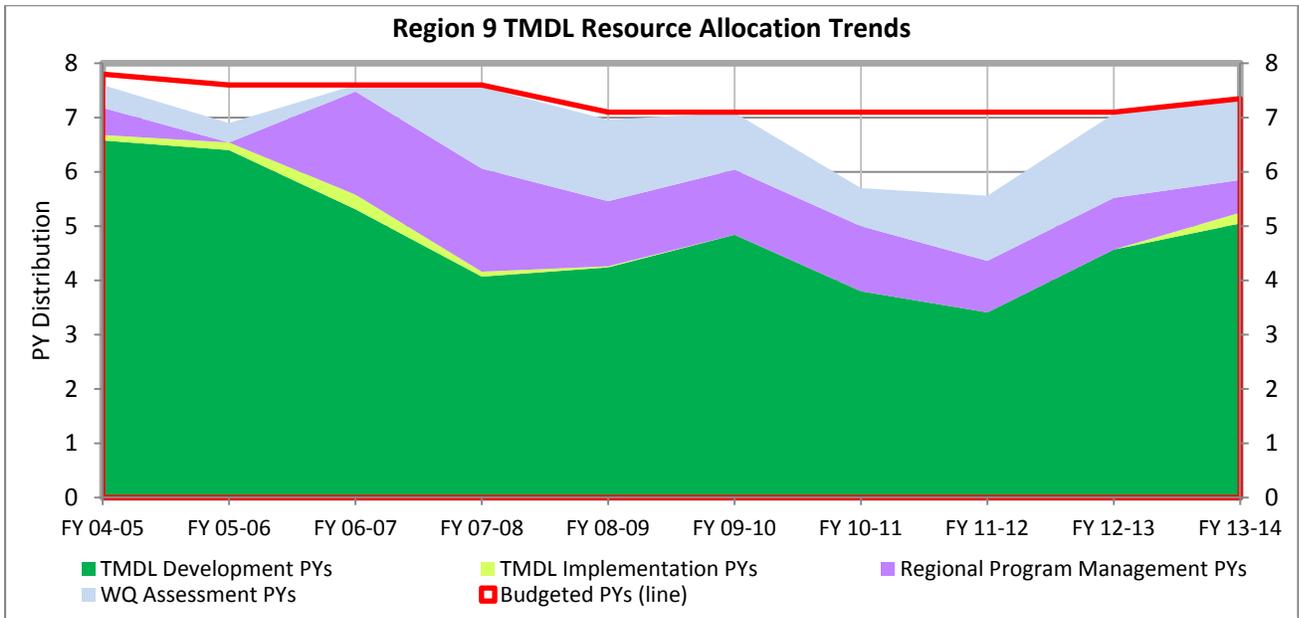
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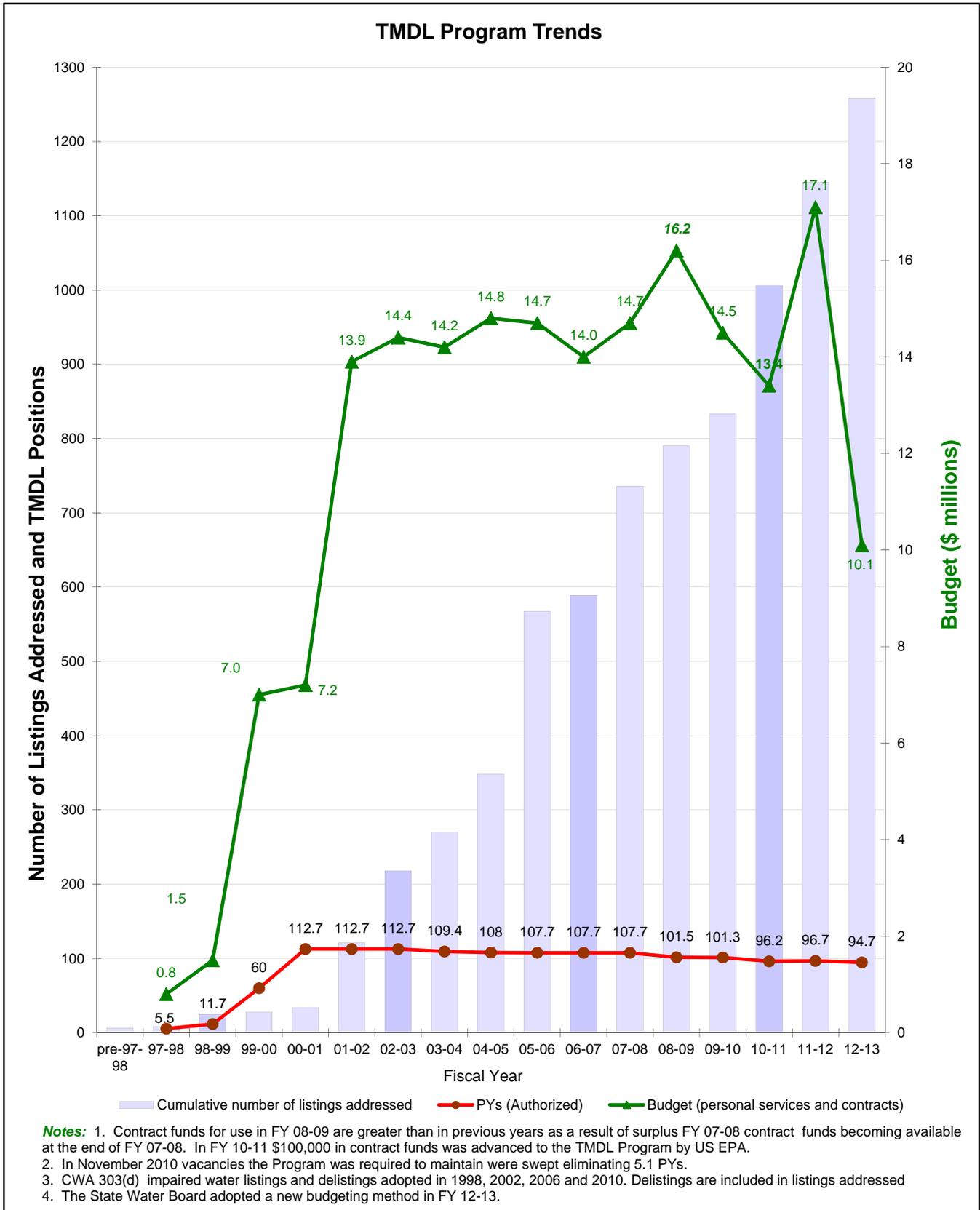
# Program Performance: Long Term Trends in Resource Allocation



# Program Performance: Long Term Trends in Resource Allocation

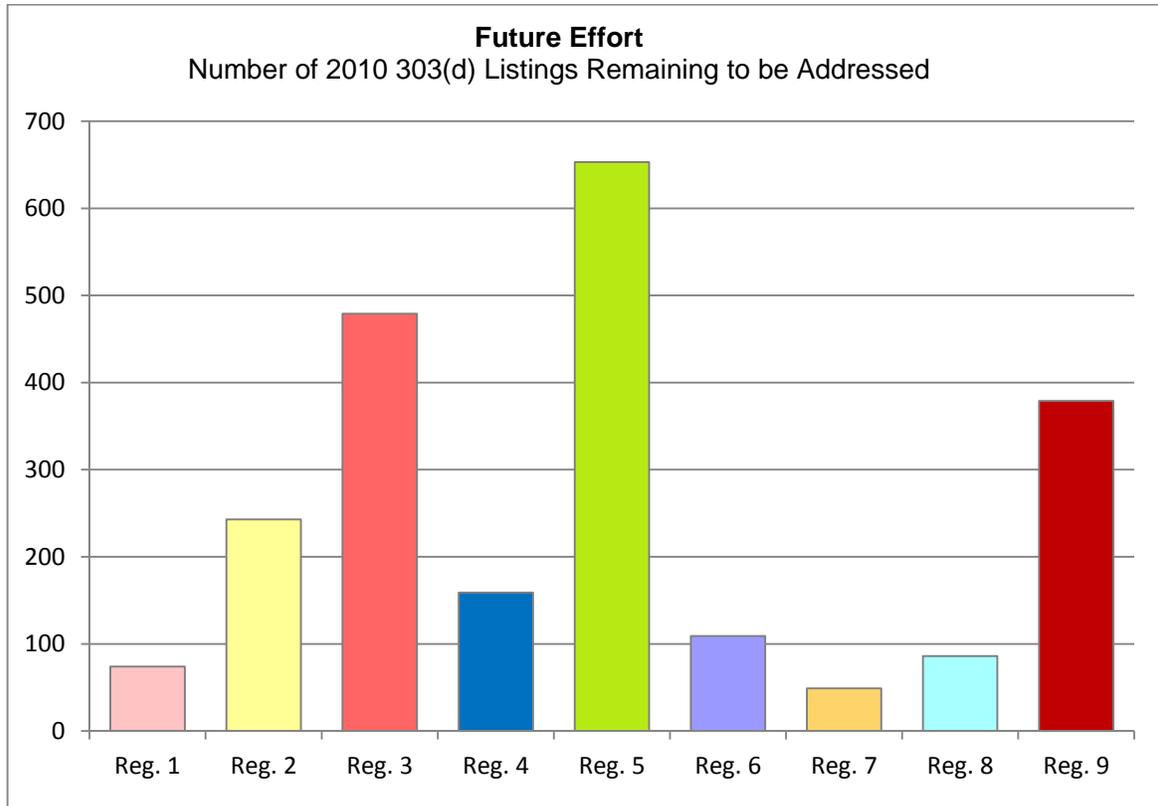


# Program Performance: Long Term Trends Summary



## 2010 303(d) Listings Remaining to be Addressed

# Listings Remaining to be Addressed



## TMDL Accomplishments and Challenges Not Elsewhere Reported

## NORTH COAST REGIONAL WATER BOARD TMDL PROGRAM

Fiscal Year 2012-2013

### Accomplishments and Challenges

This summary identifies the accomplishments and challenges of the TMDL program in the North Coast Region in fiscal year 2012-2013. Program priorities are implementation, addressing impaired waters through existing mechanisms and new policies, and developing TMDLs where analyses are needed.

The development of TMDLs remains necessary when pollutant impacts, sources, and potential solutions are poorly understood. This is the case for impairments to the Laguna de Santa Rosa, Russian River, and Elk River, which were the focus of 3.4 PYs in FY 12/13. In regards to TMDL implementation, staff efforts to maintain momentum within watershed to achieve tangible water quality results continued in earnest. In FY 12/13, approximately 3 PYs from the TMDL program were devoted directly to implementation projects in the Klamath River, Shasta River, Scott River, Salmon River, Garcia River, and other sediment impaired watersheds of Mendocino County. The Region also focused on addressing impaired waters through the use of regulatory implementation tools in advance of (and hopefully in place of) technical TMDL analyses where pollutant sources and control options are well understood. Several regulatory permits are now in place to help address the Region's wide-spread sediment and temperature impairments. These include a five-county roads general permit (adopted this year), general permits for timber harvesting, a U.S. Forest Service permit, and a dairy permit program. Additional tools under development in FY 12/13 include the regional Temperature Policy, regional Agricultural Lands Discharge Program, and statewide Grazing Regulatory Action Plan. Approximately 1.7 PYs from the TMDL program were spent on these three projects.

### ACCOMPLISHMENTS

**TMDL Development - Elk River Sediment TMDL:** Staff divided the Elk River watershed into three water body segments: Upper Elk River watershed (primarily industrial timberland), Lower Elk River watershed (grazing and urban land uses), and Little South Fork Elk River (un-managed segment which staff propose to delist). For the Lower Elk River watershed, staff worked with the State Board to designate the City of Eureka as a Phase II Municipal Separate Stormwater Sewer System entity, which will ensure the development of a stormwater program to help address sediment impacts. For the Upper Elk River watershed, staff continue to develop the TMDL and completed the peer review process. The peer review draft of the Technical TMDL for the Upper Elk River was submitted for scientific peer review in April with comments received in May 2013. Staff also developed an implementation and approval strategy based upon a single action of the Regional Water Board to simultaneously adopt the TMDL the implementation mechanism, which will be a watershed waste discharge requirement (WDR) permit for timber harvest and related activities. A WDR development team was assembled in late FY 12/13 with plans to prepare a draft permit ready for consideration before the Board in FY 13/14. Additionally, staff secured partnerships and funding to identify feasible restoration actions to address impairments related to stored instream sediment deposits. Outreach efforts this year included maintaining a webpage, regular informational e-mails, landowner meetings, Regional Water Board updates in August 2012 and May 2013, and briefings of Regional and State Board staff and members.

**TMDL Development & Early Implementation - Laguna de Santa Rosa TMDLs:** Staff continued to conduct technical analyses for the development of phosphorus, nitrogen, dissolved oxygen, temperature, and sediment TMDLs for the Laguna de Santa Rosa. In FY 12/13, staff reviewed available temperature data and prepared a draft temperature source analysis. Similar planned efforts for sediment were stalled due to the loss of intern support staff through statewide layoffs. Staff also collected new data on nutrient concentrations in benthic sediments in order to develop a clearer understanding of legacy nutrient sources and to identify candidate reaches for possible instream restoration.

In addition to significantly increasing stakeholder outreach and education efforts in FY 12/13, staff took advantage of several opportunities for early TMDL implementation. These include assisting permit staff develop renewed permits for two wastewater treatment facilities in the Laguna watershed, coordinating with staff developing the agricultural program, coordinating with staff developing the Klamath Tracking and Accounting Program and the Klamath Basin Monitoring Program, both of which may be used as models for TMDL implementation in the Laguna watershed. Staff participated on the technical advisory committee for the development of a water quality credit trading market for the Laguna watershed and supported local Resource Conservation Districts developing nutrient management plans and implementing environmentally-friendly conservation practices on rural properties. Additionally, staff supported joint efforts by the EPA, the SWRCB, and the San Francisco Estuary Institute to conduct a basin-wide wetland resource assessment in the Laguna watershed, which may be used as a means by which to prioritize and monitor future wetland and riparian restoration efforts. The levels of effort necessary for above early implementation initiatives were greater than originally anticipated for FY 12/13, and the development of the TMDL will take longer as a result. However, the water quality and administrative benefits to be gained through these early implementation efforts are substantial and worthwhile.

**TMDL Development - Russian River Pathogens TMDL:** TMDL staff just completed an intensive, two-year sampling effort to assess the geographic extent, timing, and potential sources of pathogens and fecal indicator bacteria in the mainstem Russian River and tributary streams. In FY 12/13, staff collected the samples needed for the Onsite Wastewater Treatment Systems Impact Study, which will help estimate contributions from septic systems. Staff collected storm water runoff from 15 sites and analyzed 87 fecal indicator bacteria samples in the Region's in-house laboratory. Concurrent samples were also collected for analysis using microbial source tracking methods such as quantitative PCR for Bacteroides, stable isotope analysis, and Phylochip. Staff began writing the evidence of impairment for the TMDL, analyzed trends in the data, and began the linkage analysis using load duration curves. Staff also maintained a webpage and participated in stakeholder outreach efforts with the public, local community groups, and at technical and watershed conferences. Coordination with the county Board of Supervisors and department staff to consider long-term solutions to septic system challenges in the lower Russian River is ongoing.

**Data Assessment - 2012 Integrated 303(d) & 305(b) Report:** The assessment of water quality data is almost complete. Regional staff developed over 50 lines of evidence and reviewed and commented on over 4,800 lines of evidence generated by State Water Board staff.

**TMDL Implementation - Garcia River Sediment TMDL:** In FY 12/13, Regional Water Board staff continued to coordinate the implementation of the Garcia River TMDL, which continues to progress as landowners across more than 75% of the watershed (55,000 acres) are now participating in the program. The Garcia River was designated this year as a "priority watershed" in the North Coast Region and received 319 grant funding to implement erosion and sediment control actions on four additional properties. The Natural Resources Conservation Service also funded projects through the National Water Quality Initiative to further assist landowners addressing controllable sediment sources on their land. During the summer of 2012, staff continued the watershed-wide water quality monitoring program being conducted through a partnership between the Regional Water Board and The Nature Conservancy. Approximately 65 permanent monitoring reaches were revisited to assess whether or not conditions in the watershed have been improving since the monitoring program's inception in 2007.

**TMDL Implementation - Mendocino County Sediment TMDLs:** One mechanism to help reduce sediment discharges in nine sediment-impaired watersheds in Mendocino County is the Mendocino County Permit Coordination Program, which will establish a one-stop-shop for landowners to obtain permits for restoration and sediment control work and receive technical and financial support. In FY

12/13, staff began preparing a waiver of waste discharge requirements and general 401 water quality certification for the program, which will be considered for adoption in late 2013. Staff has continued to coordinate these efforts with the Mendocino County Resource Conservation District and the Natural Resources Conservation Service.

**TMDL Implementation - Klamath River TMDLs:** Staff continued to make progress implementing the Klamath River Temperature, Dissolved Oxygen, Nutrient, and Microcystin TMDLs and coordinating control efforts throughout the basin. Staff played a lead role in the Klamath Basin Monitoring Program, served as vice-chairperson, and helped initiate the development of watershed stewardship reports for the Shasta Valley and the Upper Klamath Basin. Staff has also continued to be active in the Klamath Hydroelectric Settlement Agreement Interim Measure Committees, which have worked on the conceptual feasibility analysis of water quality improvement projects for the Upper Klamath Basin (IM-10), water quality improvement pilot projects (IM-11), and water quality monitoring for assessment of status, trends, and public health along the Klamath from the Link River to the estuary (IM-15). The IM-10 draft report was completed in FY 12/13 and will be finalized in August 2013. Progress was also made for the implementation of the Klamath Tracking and Accounting Program with the award of two 319 grants to fund local lead entities to develop tracking and accounting infrastructure. The Regional Water Board has also continued discussions with the U.S. Bureau of Reclamation and the U.S. Fish and Wildlife Service regarding the Management Agency Agreement for implementation of water quality improvement projects. The MAA has taken the form of a watershed stewardship agreement and additional partners have been included in the framework. The final agreement will be based on the project recommendations included in the IM-10 report.

**TMDL Implementation - Salmon River Temperature TMDL:** Staff continued to implement the 2005 temperature TMDL in the Salmon River watershed and worked closely with the U.S. Forest Service, which manages over 98% of the watershed. Staff also worked with the Salmon River Restoration Council and partially supported their efforts through TMDL contract funds. The focus of TMDL implementation has been evaluating mine tailings sites along the river and identifying potential areas where a comprehensive floodplain restoration project could be conducted.

**TMDL Implementation - Scott River Sediment and Temperature TMDLs:** In FY 12/13, staff completed the Scott River TMDL Conditional Waiver of Waste Discharge Requirements. A public workshop was held in Fort Jones in August and the waiver was adopted by the Regional Water Board in October. Staff began implementing the Scott TMDL Waiver and developed a fact sheet, which is posted online, to help educate and inform stakeholders. Routine regulatory activities continued, including investigations of complaints and implementation of the U.S. Forest Service, private timber, 401 dredge and fill certification, and Caltrans storm water programs – all of which are part of implementing the Scott River TMDLs. In this fiscal year, staff also developed a contract with the Siskiyou Resource Conservation District (SRCD) for the development of ranch plans and managed grants awarded to SRCD for riparian restoration and the collection of information in support of groundwater studies. Additionally, staff continued to manage a contract with UC Davis to develop a groundwater study of Scott Valley. Staff reviewed draft products and provided comments, including the “Scott Valley Integrated Hydrologic Model: Data Collection, Analysis, and Soil Budget.” Staff attended meetings of the Scott Valley Groundwater Advisory Committee and participated in planning discussions.

**TMDL Implementation - Shasta River Temperature and Dissolved Oxygen TMDLs:** Staff continued implementation efforts in the Shasta River watershed with a focus on the spring-fed coho salmon refugia areas downstream of Lake Shastina, Parks Creek and the Little Shasta River. Staff worked with stakeholders and managed contracts and grants to help develop, identify, and reduce tailwater discharges, restore riparian areas, and develop ranch plans to

reduce impacts. Additionally, staff worked to revise the Shasta River TMDL Conditional Waiver, which was adopted by the Regional Water Board in October 2012. Implementation of the new waiver began with staff assessing individual landowner management practices and water quality protection measures. Additionally, staff began developing a Shasta River monitoring plan to assess compliance with the Shasta River TMDL. One indication that beneficial uses are being restored is the return of approximately 30,000 Chinook salmon to the Shasta River to spawn. About six million smolts swam downstream to the Klamath River and Pacific Ocean.

**Addressing Impairments – Agricultural Lands Discharge Program:** Staff continued work in FY 12/13 to address discharges from row crops, vineyards, orchards, lily bulbs, and other agricultural lands. The stakeholder advisory group, which was formed to provide input on the program, continued to meet and work with staff. Staff held separate meetings with the four subgroups of the advisory group and hosted two full group webinars during the fiscal year. With the help of the advisory group, staff developed draft requirements for water quality plans and third party programs, draft permit conditions, and two Frequently Asked Questions documents.

**Addressing Impairments - Temperature Implementation Policy:** In FY 12/13, staff continued to develop a policy and Basin Plan amendment to comprehensively address and prevent temperature impairments region-wide. Staff held CEQA scoping meetings throughout the region, met with stakeholders, updated the Regional Water Board, and developed a draft of the policy, Basin Plan amendment, and staff report. Peer review of the draft documents began in June. At the same time, staff developed a draft Basin Plan amendment to address temperature impairments in the Mattole, Navarro, and Eel River watersheds to implement the completed temperature TMDLs consistently with the draft policy.

## **CHALLENGES AND RESPONSES TO CHALLENGES**

**Eel River Temperature TMDLs Single Action Adoption:** A challenge this fiscal year was the delay in adopting two Eel River temperature TMDLs. As originally envisioned in the Work Plan, staff made an effort to adopt two temperature TMDLs (for the Upper North Fork Eel River and the Black Butte and Wilderness Hydrologic Subareas of the Middle Fork Eel River) through the single action adoption process. The U.S. EPA developed and established the temperature TMDLs, and the North Coast Regional Water Board has been implementing the actions necessary to achieve the TMDLs through the Waiver of Waste Discharge Requirements for the U.S. Forest Service. Staff and legal counsel proposed that the TMDLs were incorporated into the state's continuous planning process when the waiver was adopted. Staff invested time in documenting the single action process and the link between the impairment and the waiver requirements. Upon further consideration late in the fiscal year, however, it became apparent that an additional public process is needed. In order to provide stakeholders with the opportunity to review the implementation actions for these and all sub-watersheds of the Eel River basin at the same time, staff are now planning to incorporate these two TMDLs and implementation actions into the Action Plan to Address Elevated Water Temperatures in the Navarro, Mattole, and Eel River Watersheds. This action plan is proposed as a Basin Plan amendment to be considered by the Regional Water Board in November 2013.

## SAN FRANCISCO BAY REGIONAL WATER BOARD TMDL PROGRAM

Fiscal Year 2012 – 2013

Accomplishments, Challenges, and Initiatives

This summary identifies those accomplishments, initiatives, and challenges of the San Francisco Bay (Region 2) Water Board's TMDL Program for fiscal year 2012 – 2013 that are not reflected in the End of Year Report generated by the Planner Tracker database.

Despite time-base reductions because of the furlough program and staff attrition, San Francisco Bay Region's TMDL program maintained a balanced approach towards TMDL development and implementation. The Pacifica State Beach/San Pedro Creek bacteria TMDL was adopted and significant progress was made in TMDL implementation for the growing number of adopted TMDLs. One notable implementation example is the Guadalupe mercury TMDL where progress was made on mercury mine waste cleanup at three former mine sites. Staff continues to apply the lessons learned in developing TMDLs for pesticides, pathogens, sediment and mercury to other TMDLs.

The Lagunitas sediment TMDL, anticipated to be adopted this past year, was delayed due to staff reassignment to support the successful lower court ruling upholding the Napa River sediment TMDL. Despite a lack of adoption, early implementation of the Lagunitas TMDL, continues to support restoration of fisheries in the region, i.e., coho salmon. Implementation of other sediments TMDLs, e.g., Napa River Sediment, is having similar outcomes in terms of steelhead restoration.

At the programmatic level, the San Francisco Bay Region actively participated in several team-based TMDL development and implementation initiatives aimed at addressing listed waters more efficiently through the sharing of our collective technical expertise and experience. These included the ongoing Statewide reservoir mercury TMDL project and our participation in the Statewide grazing regulatory strategy work group.

### Accomplishments

- **Completed the Pacifica State Beach and San Pedro Creek Bacteria TMDL.** The Pacifica Bacteria TMDL was adopted by the Regional Water Board and approved by both the State Water Board Office of Administrative Law. The TMDL requires targeted actions to clean up anthropogenic sources of bacteria affecting recreational use in San Pedro Creek and at Pacifica State Beach. The implementation plan relies on actions the City of Pacifica is taking to modernize its sanitary sewer system, including providing grants for rehabilitation of private laterals, and to increase the volume of summertime dry weather flows, it diverts to its wastewater treatment plant for treatment. It requires additional actions as necessary to address controllable sources of bacteria. This bacteria TMDL was the first one in coastal northern California to use the "reference system approach" to incorporate uncontrollable background contributions of bacteria from natural sources into its water quality targets, based on the approach used in southern California. We also amended our Basin Plan to allow use of the reference system approach for future bacteria TMDLs, as appropriate.

- **Priority Watershed TMDL Implementation.** TMDL and Non-Point Source program staff continued to remain closely coordinated and supported TMDL implementation via stakeholder outreach. The outreach maximized stakeholders' ability to obtain grants for implementation of projects to control discharges (e.g., sediment, pathogens, nutrients, mercury) in response to permit requirements and anticipated regulations.
- **Statewide Reservoir Mercury TMDL Development.** This project is discussed in greater detail in the Central Valley Region's end-of-year report. Region 2 staff serves as the Project Manager and Technical Team Lead, coordinating with Region 5 and State Board staff. Significant accomplishments included internal review of a straw policy draft document, substantial progress on the TMDL staff report, and outreach activities that included presenting a scientific poster at a Bay-Delta science meeting, keeping the project website current, and Region 2, 5 and State Board staff presenting a well-received information item to the State Water Board in April 2013.

### Challenges and Response to Challenges

- **Napa River and Sonoma Creek nutrients TMDLs.** The completion of these TMDLs was initially delayed due to difficulties encountered in development of numeric targets for these water bodies. To overcome this challenge a two year study was initiated to reassess impairment and develop numeric targets. The study was conducted collaboratively by the TMDL and SWAMP program, using updated SWAMP benthic algae protocols. The results of the data collection effort led staff to reassessment the impairment status of these waterbodies which resulted in a decision to develop recommendations for delistings.
- **GIS support.** In light of our expanding agricultural WDR program and related to the emphasis on sediment TMDLs (Walker, Butano/Pescadero, Lagunitas creeks), GIS support remains a critical need. Responding to this challenge, Region 2 continues to work through the Aquatic Science Center for GIS support on an as-needed basis, using contract resources.
- **Suisun Marsh Multi-Pollutant TMDL.** This year Region 2 staff saw the completion of many of the technical elements of the TMDL, aided by USEPA funding to Tetra Tech, but we also faced some challenges due to the limited data availability. Region 2 staff addressed these technical challenges by working collaboratively with other parties to collect data to evaluate reference DO conditions, address a sportfish mercury data gap, and develop DO numeric targets for marsh slough channels. In addition, the TMDL has challenges due to its high level of complexity, the marsh's key relationship to other efforts within the larger Bay-Delta system, and the numerous landowners within the Marsh. We continued outreach to and coordination with the State Department of Water Resources and the local Resource Conservation District, both of which will be critical to TMDL completion.
- **Permanente Creek Selenium TMDL.** Development of this TMDL was challenging in light of a concurrent enforcement action in the watershed. The enforcement action involved coordination amongst several Divisions within Region 2, including TMDL division staff, and the State Board. A additional significant challenge was the lack of existing available data within the watershed to develop the TMDL. Region 2 staff's response to this challenge was to integrate the information

develop the TMDL. Region 2 staff's response to this challenge was to integrate the information needs of the TMDL into the 13267 Orders issued as part of the enforcement action. The enforcement action and subsequent corrective actions driven by it are expected to address resolution of the on-going water quality impairment. The development of the TMDL is expected to occur in coordination with the enforcement actions to help define the extent of the water quality problems in the watershed and help focus implementation actions.

### TMDL Implementation

- **Guadalupe River Watershed Mercury TMDL.** As noted above, Region 2 staff continues to make progress on implementation, with two notable events this year in the Guadalupe River Watershed, including, ongoing reservoir oxygenation testing by the Santa Clara Valley Water District to reduce mercury methylation and issuance of a cleanup order to the Guadalupe Rubbish Disposal Company to guide the cleanup of the historic mercury mine on their property. In addition, staff continues to work with public lands stakeholders to implement mercury mine cleanups on their properties.
- **San Francisco Bay PCB and Mercury TMDLs.** Staff worked with the California Department of Public Health to develop a program to communicate health risks from mercury and PCBs to consumers of Bay fish. This successful project was funded by NPDES dischargers and provided mini-grants to four community-based organizations to do multi-lingual, multi-cultural outreach. The project reached over 7000 individuals, and these individuals have over 22,000 family members who eat San Francisco Bay fish. Pre- and post-activity surveys indicate positive behavior change ranging from 60 percent to 96 percent. This program is being looked to as a model for other outreach programs, e.g., the Delta mercury TMDL implementation. Staff also worked with municipal stormwater dischargers to identify and monitor urban rights-of-way with elevated PCB and mercury concentrations and to evaluate the effectiveness of various urban runoff management practices to remove PCBs and mercury prior to discharge to the Bay.
- **Napa River Sediment TMDL.** We continued to make real progress towards achievement of the implementation actions called for in the Napa Sediment TMDL, despite ongoing legal challenges. On the grazing front, Board staff is working closely with local groups to ensure that adequate technical assistance, in the form of grants and outreach, is available for ranch planning. Staff continues to work with stakeholders in the development of a regulatory program to address discharges from vineyards and continues to manage several grants directed towards early implementation of the vineyard regulatory requirements. Lastly, significant progress has been made in restoration efforts along the Oakville-to-Oak Knoll and Rutherford reaches of the river and in several fish passage projects completed on tributaries to the river.

## **CENTRAL COAST REGIONAL WATER QUALITY CONTROL BOARD**

Fiscal Year 2012-2013

Accomplishments and Challenges

This summary identifies the accomplishments and challenges of the TMDL Program in the Central Coast Region for fiscal year 2012-2013.

### **ACCOMPLISHMENTS**

#### TMDL Approvals

We obtained regional board approval for five TMDLs in fiscal year 2012-2013; we committed to four approvals in our TMDL work plan.

The TMDLs approved in fiscal year 2012-2013 were:

1. Lower Salinas River Nitrogen and Orthophosphate TMDL (45 impairments addressed)
2. Santa Maria River Watershed Nitrogen and Orthophosphate TMDL (36 impairments addressed)
3. Arroyo Paredon Diazinon and Additive Toxicity TMDL (2 impairments addressed)
4. Bell Creek Nitrate TMDL (1 impairment addressed)
5. Jalama Creek Sodium and Chloride TMDL (2 impairments addressed)

We committed to obtaining approval for the Santa Maria River Pesticide and Toxicity TMDL. However, the volume and detail of public comments warranted rescheduling this adoption until fiscal year 2013-2014. To account for this loss of one approval, we worked hard to expedite TMDL development and approval for the Bell Creek and Jalama Creek TMDLs, both of which were approved; hence the 5/4 approval rate.

#### Work Plan Tasks

We completed 59 of 63 tasks described in our workplan, resulting in a 94% completion rate. The four tasks we were not able to complete were:

1. Regional Board action for the Santa Maria River Watershed Pesticide/Toxicity TMDL (discussed above).
2. Develop administrative record for the Santa Maria River Watershed Pesticide/Toxicity TMDL (discussed above).
3. Santa Maria River Watershed Salts TMDL: Develop Final Preliminary Project Report. We could not finish this task due to the complexity and time devoted to the Santa Maria Pesticide/Toxicity TMDL.
4. Pajaro River Nutrient TMDL development of monitoring plan. This was over-ambitious planning. The monitoring plan will be complex and we simply did not get to it. It will be completed in fiscal year 2013-2014.

### Streamlining TMDL Development and Approval

The impaired waters list in the Central Coast region exceeds 700 pollutant-waterbody combinations. This large list is in part a result of robust monitoring programs driving the 303(d) listings. The number of listings warrants continued development of streamlined approaches to TMDL development and approval; some streamlined approaches to TMDL development address water quality problems that are not as serious as others. Additionally, we continue to prioritize impairments with serious water quality problems, often requiring more time to develop TMDLs, and include these in our work plan. Therefore, our work plan includes projects that we believe will have a short turn-around time to develop and approve, as well as projects that address very serious water quality issues that will take longer to develop and approve a TMDL.

To this end, we accomplished the following in 2012-2013:

- Developed a short, succinct TMDL development approach and report for chlorpyrifos and diazinon listings that will be used for several projects. Our regional board approved the Arroyo Paredon Diazinon and Additive Toxicity TMDL, and we will develop similar TMDLs for approval in 2013-2014.
- Developed a TMDL development strategy and report for nutrient-related listings that we will use for several projects. This approach has been reviewed by a third-party scientific reviewer, and we are using the scientific review for similar projects. In fiscal year 2012-2013, we developed and received approval for the Lower Salinas River watershed nutrient TMDL, and the Santa Maria River watershed nutrient TMDL. We will continue to reap the benefits of this approach in 2013-2014 as we anticipate regional board approval of the Pajaro River watershed nutrient TMDL.

## **CHALLENGES**

### Difficulty of Resolving Impairment

We have received a significant number of detailed comments from implementing parties on our proposed TMDLs. Staff must work with the stakeholders and respond to comments to develop meaningful, approvable solutions. The solutions are sometimes unpalatable to some implementing parties, thereby slowing TMDL development and approval. As the TMDL program moves forward addressing problems that are difficult to resolve, such as urban pesticides and nutrient loading impacting aquatic life, the development and approval of TMDLs may slow for a period of time. Our strategy is to develop the best solutions (TMDLs) possible now, then use these as models to build from so we can apply to other projects. We've found that this approach ultimately results in an accelerated rate of TMDL development and approval over time, and we will continue this strategy.

### Increasing Demand for Implementation

We continue to increase the number of adopted TMDLs and corresponding required implementation efforts. We rely on our regulatory programs to implement TMDLs. The regulatory programs have an increasing work load. Logically, there will be a critical point at which there will not be enough staff resources in regulatory programs to address the work load. To address this imminent critical point, we are developing potential strategies to regulate an increasing number of dischargers with a steady number of staff.

### TMDL Report Cards of TMDL Progress

We have developed many TMDLs where progress is defined on a watershed or subwatershed scale. For example, bacteria or nutrient concentration targets at subwatershed or watershed monitoring locations are historically used as measures of progress toward achieving TMDLs. However, subwatershed and watershed resolution analysis is often not sensitive enough to show the progress that we know is being made. For example, implementation of management practices at a ranch site could significantly reduce loading to tributary waters, but concentration data at a watershed scale may not show a positive trend. Therefore, we are moving toward measuring progress on a localized scale, such as individual ranches. Many of our impairments are driven by non-point sources, to which there are thousands of individual contributors. Developing meaningful individual monitoring requirements and establishing a means of reporting and tracking site information will be a challenge, but necessary to demonstrate progress.

# LOS ANGELES REGIONAL WATER BOARD TMDL PROGRAM

Fiscal Year 2012-2013

## Accomplishments, Challenges and Initiatives

This summary identifies those accomplishments, initiatives and challenges of the Los Angeles Regional Board's TMDL Program for fiscal year 2012-2013 that are not reflected in the End of Year Report generated by Planner Tracker.

Furloughs and staff losses were a challenge to this year's accomplishments, although the Los Angeles Region was able to replace one staff that left the unit earlier in the fiscal year by the end of the fiscal year.

### Accomplishments

This fiscal year saw the end of the 1999 TMDL Consent Decree between Heal the Bay and the USEPA. After completing the bulk of the TMDLs by the end of last fiscal year (47 TMDLs), three TMDLs remained to be completed by the end of this fiscal year under a negotiated Consent Decree extension. These TMDLs were completed and include the Ventura River Algae TMDL, adopted by the Regional Board, and the Malibu Creek and Lagoon Benthic Community TMDL, adopted by USEPA, as well as a finding from USEPA that the Ventura River Algae TMDL addresses the water quality impairments associated with the Ventura River pumping and water diversions 303(d) listings. Regional Board staff spent significant time reviewing drafts, providing technical assistance, and participating in public workshops as part of our effort to assist EPA.

In addition to the consent decree TMDLs, this year the Regional Board adopted a revision the Los Angeles River Nitrogen TMDL, and two implementation plans for the Los Cerritos Channel and San Gabriel River Metals TMDLs. These types of projects are critical to the successful implementation of TMDLs.

The Regional Board also focused on implementation of the 47 existing TMDLs in the Region. One aspect of implementation is the collection and analysis of data to be used in TMDL reconsiderations. For example, staff compiled and assessed considerable amounts of data for the reconsideration of the Ballona Creek Metals, Ballona Estuary Toxics, and Marina del Rey Toxics TMDLs. These TMDLs were not brought to the Regional Board as planned this fiscal year due to the significant revisions that needed to be made as a result of the data analysis. It is expected that these TMDLs will be brought before the Regional Board next fiscal year.

Another part of implementation is ensuring that TMDLs are incorporated into permits and enforced. In order to accomplish this goal, Regional Board TMDL staff worked with enforcement staff to negotiate a settlement agreement with the Santa Clarita Valley Sanitation District (SCVSD) in the amount of \$225,000 for violations of Upper Santa Clara River Chloride TMDL requirements included in SCVSD's NPDES permits. This took considerable time and effort from multiple staff, but as a result of the enforcement effort, SCVSD appears to be back on track towards attaining TMDL requirements.

This year was the second year that Regional Board staff instead of State Board staff prepared documents and presented TMDLs to the State Board. Regional Board staff brought the Ventura River Algae TMDL, the Ballona Creek Bacteria TMDL, the Malibu Creek Bacteria TMDL, the Marina del Rey Bacteria TMDL, the Santa Monica Bay Beaches Bacteria TMDL, the Inner Cabrillo Beach Bacteria TMDL, and the Los Angeles River Nitrogen TMDL through the State Board approval process.

Finally, Los Angeles Regional Board TMDL staff devoted significant resources to the inclusion of TMDLs in the Long Beach MS4 permit. Consideration of the Long Beach MS4 permit was

delayed this fiscal year, but it is expected to be adopted next fiscal year, which will be critical for the successful implementation of the 10 TMDLs that affect the City of Long Beach

### Challenges and Responses to Challenges

While Regional Board staff is becoming more efficient at bringing TMDLs to the State Board for consideration, there is still a considerable amount of effort involved in submitting documents to OAL that was underestimated in the 2012-2013 work plan. It is for this reason that the five bacteria TMDLs were brought to the State Board, but not delivered to OAL by the end of the fiscal year. Additional resources have been allocated for these activities in next year's work plan to reflect the significant burden of bringing TMDLs through the State Board and OAL approval process.

Regional Board staff has spent resources developing permit language for the newly adopted statewide Caltrans permit and expects to continue this effort next fiscal year for the Caltrans Permit as well as possibly the general industrial stormwater permit.

While the economy is recovering, over the last fiscal year, the Regional Board was still compelled to work creatively with stakeholders to establish implementation plans and flexible schedules in order to attain broad stakeholder support and Regional Board approval of TMDLs. This took additional time and effort, but has resulted in general support for the recently adopted TMDLs.

### Initiatives in TMDL Implementation

Two implementation plans were adopted for TMDLs that were previously promulgated by USEPA. The development of implementation plans is crucial to attaining TMDL requirements.

Regional Board staff intends to develop an implementation plan for the Malibu Creek and Lagoon Benthic Community TMDL as well.

Regional Board staff intends to develop a waiver to implement control of the nonpoint sources of trash in several of the previously-adopted trash TMDLs.

Regional Board staff will work with horse and livestock owners to develop new regulatory programs required to implement the Ventura River Algae TMDL.

Regional Board staff meet regularly with the Port of Los Angeles and Port of Long Beach as they develop special studies including bioaccumulation models and fish tracking studies which will be important for the planned revisions to the Greater Los Angeles and Long Beach Harbor Waters metals and toxics TMDL. The same workgroup is also working closely with State Board staff to develop implementation provisions to the Sediment Quality Objectives (SQO) Part 1 and, with other stakeholders, the development of SQOs Part 2.

TMDL staff are also closely involved in development of Quantified Microbial Risk Assessment (QMRA) methods which may be used in this Region to modify beach bacteria TMDLs. Separate, but related QMRA efforts are taking place at three beaches in the Los Angeles Region, at this time.

## CENTRAL VALLEY REGIONAL WATER BOARD TMDL PROGRAM

Fiscal Year 2012-2013

Accomplishments, Challenges and Implementation

This summary identifies those accomplishments, initiatives and challenges of the Central Valley Regional Board's TMDL Program for fiscal year 2012–2013 that are not reflected in the End of Year Report generated by Planner Tracker. In 2012-2013, TMDL Program staff levels remained the same as the previous fiscal year, 12.6 PY.

TMDL program staff is coordinating implementation of multiple previously adopted TMDLs that encompass many of the major rivers in the Region and the Delta, and staff is working on developing numerous new TMDL projects that will address hundreds of impairment listings. Implementing previously adopted TMDLs in a manner that produces the water quality improvements envisioned in the TMDLs is turning out to be a very resource intensive effort. Following is a summary of TMDLs in the implementation and development phases:

<b>Region 5 TMDLs<sup>1</sup></b>		
<b>Constituent</b>	<b>Implementation Phase</b>	<b>Under Development</b>
Metals and Mercury	18	46
Pesticides	46	68
Salt and Boron	2	
Selenium	3	
DO, Nutrients	2	
Pathogens	8	
<b>Total</b>	<b>79</b>	<b>114</b>

<sup>1</sup>Pollutant/waterbody combinations. Statewide reservoir mercury TMDL project is 75 listings, of which 46 are in Region 5.

### **ACCOMPLISHMENTS**

#### **Delta Mercury TMDL**

Control of mercury in the Delta watershed has been a key focus of the Central Valley's pollution prevention and TMDL Program work. We have been working with over 45 dischargers named in the TMDL that had responsibility for complying with Basin Plan requirements (methylmercury studies, mercury minimization programs, and exposure reduction program). We formed an independent technical advisory committee to review nine concept proposals and study work plans, addressing methylmercury from municipal wastewater treatment, urban stormwater, managed wetlands, tidal wetlands, open water channels, and irrigated agriculture. We are also working with the dischargers and stakeholder groups to develop and implement an exposure reduction program to reduce human exposure to mercury-contaminated fish. We worked with the stakeholders to complete a strategy that describes elements of the program and discharger funding expectations. We are currently in the process of developing the work plan and will oversee its implementation in 2014. For both the methylmercury control studies and the

exposure reduction efforts, we had numerous public meetings to explain the TMDL requirements and gather stakeholder input.

### **OP Pesticides Implementation**

TMDL staff and regulatory staff continue to coordinate and report on the implementation of four previously adopted OP pesticide TMDLS and are seeing positive improvements in water quality. In addition to the already – delisted Sacramento and Feather Rivers, the San Joaquin River is now meeting the diazinon and chlorpyrifos water quality objectives, as are most, but not all the Delta Waterways and Sacramento County Urban Creeks. These declines are expected to continue as efforts increase under the Irrigated Lands and NPDES programs.

### **Coordination with DPR and EPA’s Office of Pesticide Programs**

We continue to work with DPR and EPA’s Office of Pesticide Programs (OPP) to change pesticide registrations and use regulations to be more protective of water quality. This will help address current pesticide water quality problems and prevent future ones. We provided comments on several OPP pesticide registration review workplans, including chlorpyrifos, triclosan, acetamiprid (a likely pyrethroid replacement), resmethrin, and MGK-264. We provided reviews of a draft DPR process for prioritizing pesticides for monitoring in urban and agricultural environments and met with DPR to begin consultation on diuron. We expect these efforts to continue to, possibly with statewide coordination through the urban pesticides project.

### **San Joaquin River Dissolved Oxygen**

The last of the TMDL Control Program studies is scheduled to be completed by December 2013. An external independent review of these studies is being funded by the California Department of Fish and Wildlife (CDFW) and a synthesis of all SJR DO TMDL information is being proposed by CDFW for 2014. This synthesis would assist staff in the Phase II process. Since 2007, DO concentrations in the channel have improved as we only observe excursions from June through October as compared to year-round. The large aeration facility, constructed in 2007 using Prop. 13 funds and now owned by the Port of Stockton, was operated in 2012 to increase DO concentrations in the river. These operations will continue in 2013, as needed. Internal coordination continues to ensure Regional Board permits include language implementing the TMDL, and external coordination continues with staff collaboratively working with DWR to investigate any unusual readings observed in the channel during DWR’s DO Runs.

## **CHALLENGES AND RESPONSES TO CHALLENGES**

### **Central Valley Chlorpyrifos and Diazinon (OP) TMDL/ Basin Plan Amendment**

This draft Basin Plan Amendment was released in March 2013, and brought to Board for a comment hearing in April 2013. It was scheduled to be considered for adoption in May 2013. At the April 2013 hearing, the Board granted a requested comment period extension. In addition, comments have resulted in potential significant changes to the Amendment and the need for an additional comment period. This amendment is now expected to be brought to the Board for potential adoption in late 2013.

### **Diuron –First Herbicide WQO, Rights of Way, and Drinking Water Concerns**

Some significant, related challenges will have to be resolved to resolve diuron impairments. Much diuron use is on rights-of-way for which there is currently no regulatory program. This is the first Amendment in recent years involving water quality objectives for an herbicide, so the analysis of costs, alternatives and potential impacts will be challenging. The importance of herbicide-caused algal toxicity is not as well accepted as are invertebrate and fish toxicity endpoints. Additionally it appears concentrations protective of drinking water use are similar to aquatic life endpoints, and are also exceeded occasionally. Much progress has been made in the technical and regulatory work and the project is on schedule. This widely used and detected herbicide's potential impacts on primary production and drinking water in the delta and elsewhere make it a priority. The approach that is ultimately successful here can likely be applied to addressing other herbicides.

### **Pyrethroid Pesticides**

The presence of toxic levels of these pesticides in stormwater and wastewater will make addressing them a challenge, as will analytical methods and lack of sediment toxicity data. It is likely that a phased approach will be needed to resolve these listings. Additionally the urban pesticides project may help resolve some of the policy and regulatory issues around urban insecticides. Considerable progress has been made, as indicated in the deliverables completed, and this project remains on schedule.

### **2012 303(d) List Update**

For FY 2012/2013, staff had anticipated reviewing all LOEs for our Region and beginning work on decision factsheets based on earlier schedules of LOE development. Some of the LOEs for our Region were developed and available for our review, but not all. Without all the LOEs, we were not able to begin work on decision factsheets. Responding to the delay in the schedule, Region 5 staff revised the workplan for this task in October 2012, shifting .6 PYs to two TMDLs: Clear Lake Nutrient TMDL (.27 PYs for TMDL implementation) and the Mercury Reservoirs TMDL (.33 PYs for TMDL development). Instead of working on decision factsheets, we worked with State Board staff on questions regarding public display of copyrighted materials, appropriate beneficial use to assign for LOEs, the appropriate evaluation guideline to use for LOEs associated with narrative objectives and considerations for writing LOEs based on organic carbon normalized sediment concentrations for pyrethroids. We also developed a write-up for metals assessment.

## **INITIATIVES IN TMDL DEVELOPMENT AND IMPLEMENTATION**

### **Statewide Reservoir Mercury TMDL**

Since 2011, Central Valley Regional Board staff, other regions and State Board have been collaborating in the planning and development of a Statewide Reservoir Hg TMDL. This TMDL will address 74 currently listed impaired reservoirs, about 75 additional reservoirs that are anticipated to be included on the next 303d list, and it will address impairments that are identified in the future. This collaborative approach was initiated with the anticipation that it would make the TMDL development process more efficient and produce a product that was consistent on a statewide basis. Region 5 staff has played a key role in development of the scientific basis and technical analysis, including drafting

the staff report and concepts for a draft statewide policy. Staff has collected all relevant data and has been working on the conceptual model, statistical linkage analysis, source assessment, and evaluating options for load and wasteload allocations. In 2012, staff from Regions 2, 5, 6, and the State Board coordinated and held four CEQA scoping meetings across the state. Region 5 has been very involved with all 4 teams that have been created for the project: steering committee, stakeholder planning and outreach, technical analysis, and CEQA. In addition, staff has presented conceptual model scientific posters at a Bay-Delta science meeting, updated the project website, and provided a publically-noticed informational item to State Water Board in April 2013.

### **Statewide Pesticide Project**

A statewide effort to support addressing existing urban pesticide listings, and the overall issue of pesticide toxicity in urban streams was initiated last year and was approved by the MCC and will start this year. Having a statewide team will help leverage resources and increase consistency in addressing urban pesticide impairments.

**California Regional Water Quality Control Board, Lahontan Region**  
TMDL Program – Fiscal Year 2012-2013  
Accomplishments and Challenges (End of Year Essay)

## **Introduction**

Lahontan Water Board staff accomplished several TMDL implementation tasks during fiscal year (FY) 2012-2013, but the TMDL work was dominated by:

1. Addressing pathogen listings
2. Statewide Mercury in Reservoirs
3. Integrated Report - Lines of Evidence review and training new staff
4. Lake Tahoe TMDL Implementation – pollutant load reduction plans

## **Major Accomplishments**

- Addressing pathogen and bacteria listings - Region 6 staff addressed pathogen listings for 16 waterbodies in the Eastern Sierra Mountains via several mechanisms and shared resources with other programs. A major component to address the pathogen listings is our ongoing and upcoming TMDL contracts with University of California contractors using Microbial Source Tracking (MST) at 16 bacteria-impaired Waters of the Lahontan Region and the qPCR (quantitative polymerase chain reaction) assays to identify bacteria sources at bacteria-impaired surface water bodies in Region 6. The contractor will employ vetted library-independent microbial source tracking (qPCR) assays which are most relevant for inland fresh waters.

Indian Tribes have offered cost-sharing, and the project is coordinated with SWAMP, the Prop. 84 “Rivers & Ranches” grant, and the statewide Grazing Regulatory Action Project (GRAP). Results will allow the Lahontan Region to identify and implement appropriate corrective strategies to address numerous 303(d) listings for bacteria & pathogens. This effort will also help staff and our Board make informed decisions concerning revising our Region’s bacteria Water Quality Objectives.

- Statewide Mercury in Reservoirs Project – Region 6 staff spent significant effort participating in the Statewide Mercury in Reservoirs project during FY 12-13. Staff were part of the lead developers for the stakeholder meetings throughout the state to inform the public and to solicit input. Staff, including the Region 6 Executive Officer, gave a presentation to State Board on the Mercury in Reservoirs Project and touted the benefit to other regions for our work.

Staff evaluated mercury data for Region 6 mercury-impaired waterbodies and assessed other waterbodies for possible mercury impairment. Results of this statewide effort will benefit other regions with similar mercury impairments.

- Integrated Report (IR) – Considerably more Region 6 staff resources were required to conduct the Lines of Evidence (LOE) reviews in FY 12-13 than in the previous IR cycle for two reasons: (1) there were significantly more LOEs to review in FY 12-13 than in the previous IR cycle, and (2) LOE review was performed by staff new to the IR program. Region 6 staff fully engaged in the IR process; Region 6 is in the first group of three regions to work on IR decisions in current cycle under the new IR decision timetable.
- Lake Tahoe TMDL Implementation – The municipal co-permittees are the stakeholders with the primary responsibilities for managing stormwater runoff – the major contributor to the TMDL water quality impairments. The municipalities (City of South Lake Tahoe, El Dorado County, and Placer County) had petitioned the permit (a renewal of the existing NPDES) that contained the co-permittees' TMDL implementation requirements. Region 6 staff proposed a set of amendments to the original permit that were developed cooperatively with co-permittee staff and elected officials to resolve concerns expressed in the co-permittee petition. The amendments added language that clarified the intent of several requirements, eliminated redundancy, and adjusted the Monitoring Plan submittal date to align with available funding. As a result of this cooperation, the co-permittees withdrew their petition and the Water Board adopted the amended NPDES permit in October 2012.

### **Other TMDL Accomplishments**

- Susan River mercury - evaluated data and coordinated 2013 sampling events with USFS for mercury in fish tissue
- Discretionary Contract proposal – extensive work to have TMDL contract approval for Microbial Source tracking contract to pinpoint the source of known pathogen impairments

### **TMDL Implementation**

Region 6 has adopted six TMDLs:

Lake Tahoe Hydrologic Unit

- Lake Tahoe phosphorus, nitrogen, and fine sediment particles
- Heavenly Valley Creek sediment
- Blackwood Creek sediment

#### Truckee River Hydrologic Unit

- Truckee River sediment
- Squaw Creek sediment

#### East Fork of the Carson River Hydrologic Unit

- Indian Creek Reservoir phosphorus

Four of the watersheds listed above (Tahoe, Heavenly, Truckee, and Squaw) have dischargers that are regulated by permits containing the pertinent aspects of a TMDL implementation plan.

Lake Tahoe – In June 2012, the Water Board accepted Pollutant Load Reduction Plans submitted by the municipal co-permittees in the Lake Tahoe Basin. Implementation of these Plans by the entities responsible for water quality impacts to stormwater runoff is a significant step towards attaining the Lake transparency TMDL goal.

Heavenly Valley Creek – Co-permittees (Heavenly Ski Resort and US Forest Service) maintained and implemented Best Management Practices (BMPs) on roads, ski runs, facilities, and parking lots at Heavenly Ski Resort.

Blackwood Creek - The major dischargers in Blackwood Creek are two land management agencies: the US Forest Service and the California Tahoe Conservancy. Both agencies have conducted stream restoration projects and associated post-restoration stream monitoring.

Truckee River – Permittees maintained BMPs for sediment control and monitored water quality. The US Forest Service decommissioned and rehabilitated dirt roads and legacy sites.

Squaw Creek – Permittees maintained BMPs and conducted erosion control under permits.

Indian Creek Reservoir – The local public utility district (operators of a wastewater treatment facility for South Lake Tahoe) implements and reports on a hypolimnetic oxygenation system (i.e., oxygen enrichment direct to the waterbody) to reduce phosphorus concentrations as TMDL implementation in Indian Creek Reservoir. The utility district operates the hypolimnetic oxygenation system and reports annually on the progress in voluntary cooperation with Region 6 TMDL staff.

## **COLORADO RIVER BASIN REGIONAL WATER BOARD TMDL PROGRAM**

Fiscal Year 2012-2013

### **ACCOMPLISHMENTS, CHALLENGES AND INITIATIVES**

This summary identifies those accomplishments, challenges and initiatives of the Colorado River Basin Regional Board's TMDL Program for fiscal year 2012–2013 that are not reflected in the End of Year Report generated by Planner Tracker. Accomplishments include: 1) Continue monitoring and assessing the New River at the International Boundary; and 2) Continue assisting Imperial County Farm Bureau (ICFB) and Imperial Irrigation District (IID) programs in implementing the Imperial Valley Sediment TMDLs and Prohibition (ICFB & IID TMDL Programs). Challenges include: 1) ICFB has revised its TMDL Program to address the current use pesticides chlorpyrifos and diazinon listings in Alamo and New rivers. In consequence, the Regional Board will certify the ICFB TMDL Implementation Program as sufficient for chlorpyrifos and diazinon; 2) Regional Board staff recommended to the USEPA that all legacy pesticide listings in Imperial Valley be moved to the being addressed section of the 303(d) list; and 3) Continue with the needed Monitoring Program. Initiative includes agricultural waivers for all the main agricultural areas.

### **ACCOMPLISHMENTS:**

#### ***Monitoring and Assessing the New River at the International Boundary***

Regional Board staff has been conducting monthly monitoring activities on the New River at the International Boundary for about 13 years. In addition, in cooperation with the U.S. Section of the International Boundary and Water Commission, Regional Board members and staff participate in bimonthly tours in Mexicali, Mexico to survey and report water quality activities on the New River in Mexico. Both the monitoring activities and the tours continue to provide the TMDL Program with valuable information for the implementation of New River TMDLs for dissolved oxygen, pathogens, sediments, and trash, and for assessing other New River impairments in the 303(d) List

#### ***Long Term TMDL Implementation for the Agricultural Community in Imperial County***

Staff conducted several watershed meetings with Imperial County Farm Bureau (ICFB), Imperial Irrigation District, and local farmers to address and coordinate implementation of all TMDLs in the Imperial Valley, the introduction of pesticides management practices in the ICFB TMDL Implementation Program, the development of Agricultural Waivers for Imperial County in 2014. These important stakeholder efforts are ongoing and part of a greater effort to address impairments in Imperial Valley. Regional Board staff has been managing grants related to this effort since 2003.

### **CHALLENGES AND RESPONSES TO CHALLENGES**

#### ***Chlorpyrifos and Diazinon for the Alamo and New Rivers***

The current-use pesticide TMDLs (chlorpyrifos and diazinon for the Alamo and New Rivers) were not adopted as scheduled because the ICFB committed to addressing these impairments by December 2018. In September 2013, the Regional Water Board plans to certify the ICFB TMDL Program revised with management practices for pesticides to be adequate for achieving chlorpyrifos and diazinon WQSs for the Alamo and New rivers. This certification action is contingent on meeting chlorpyrifos and diazinon WQSs in the Alamo and New rivers by December 2018. If this effort doesn't succeed, the TMDLs may be adopted. Following the certification, Regional Board staff plans to request that Alamo and New River listings of

chlorpyrifos and diazinon be moved to the being addressed section of the 303(d) List (Section 4B or 5C) in lieu of a TMDL.

### ***Legacy Pesticides for the Colorado River Basin TMDL***

Regional Board analyzed fish tissue data and the ICFB TMDL Implementation Program, and sent a report for USEPA's review in October 2011, requesting that all Imperial Valley legacy pesticide pollutants be moved to the being addressed section of the 303(d) List (Section 4B or 5C) as opposed to adopting TMDLs. USEPA staff discussed this report with us several times. Regional Board staff plans to request that all Imperial Valley legacy pesticide pollutants be moved to the being addressed section of the 303(d) List (Section 4B or 5C) in this listing cycle in lieu of a TMDL.

### ***Monitoring Programs***

State Board is not approving monitoring and laboratory contracts any longer. According to State Board, monitoring should be done by either the dischargers or by SWAMP. Regional Board is working on getting monitoring from the agricultural dischargers. However, it is going to take several years to implement agricultural waivers and get monitoring results. Regional Board 7 has been developing and implementing agricultural waivers of Waste Discharge Requirements (WDRs) and plans to have all the agricultural areas covered by the end of 2014. Implementing the agricultural waivers and creating a structure to produce the laboratory analysis may take another two years (end of 2016). Also SWAMP does not have the resources to conduct the needed monitoring to address the 303(d) listings in terms of frequency and volume of samplings. As a result, several important monitoring events are cancelled. In some instances these challenges are mitigated by use of other programs' laboratory contracts, when available. Therefore, Region 7 has several potential delistings that can't be completed because of insufficient number of sample sizes. The SWAMP program only collects and analyzes samples twice a year and it may take several years at that pace to collect enough samples to meet the Delisting Policy requirements. This is more critical when fish tissue samples are needed.

## **INITIATIVES IN TMDL DEVELOPMENT AND IMPLEMENTATION**

### ***Agricultural Waivers***

In September 2012, the Regional Water Board adopted a Conditional Waiver of Waste Discharge Requirements for agricultural wastewater discharges and discharges of waste from drain operation and maintenance activities originating within the Palo Verde Valley and Palo Verde Mesa, Riverside and Imperial Counties. In addition, in January 2013 the Regional Water Board adopted a similar agricultural waiver within the Bard Unit of the Reservation Division, Imperial County. Development and implementation of agricultural waivers for Coachella Valley (2013) and Imperial Valley (2014) will have all agricultural discharges in Region 7 in compliance with the Water Code. This Initiative will also address all 303(d) listings of agricultural wastes in Coachella, Imperial and Palo Verde valleys.

## **SANTA ANA REGIONAL WATER BOARD TMDL PROGRAM**

Fiscal Year 2012-2013

### **Accomplishments, Challenges and Initiatives**

This summary identifies those accomplishments, initiatives and challenges of the Santa Ana Water Board's **TMDL development, TMDL implementation and TMDL Program** for fiscal year 2012–2013 that are not reflected in the End-of-Year Report generated by Planner-Tracker.

#### **ACCOMPLISHMENTS**

##### **TMDL Development: Big Bear Lake Mercury TMDL**

- Continued coordination with State Water Board/Regional Board staff on the statewide development of the Mercury Policy for impaired lakes. Several Regional Board Staff are participating on the stakeholder committee and on the technical committee and reviewed draft staff report and other documents.
- Continued discussions with local air quality districts to address atmospheric deposition of mercury
- Completed Big Bear Lake fishing survey.

##### **TMDL Development: Newport Bay Watershed Organochlorine Compounds TMDLs**

- The TMDL Basin Plan amendment was submitted to the State Board for approval. The amendment was non-controversial, and a lack of comments allowed the State Board to approve the amendment October 16, 2012 on the consent calendar.
- The amendment has been submitted to the Office of Administrative Law June 6, 2013 for approval.
- Concurrently, the amendment was submitted to the US EPA, Region 9, on June 20, 2013 for consideration of approval of the TMDLs.
- Regional Board staff continues to coordinate with the stakeholders on early compliance activities despite the status of final approval. The dischargers have proceeded with implementation proactively, conducting monitoring and evaluating compliance tasks.

##### **TMDL Development: Newport Bay Watershed Selenium TMDLs and SSOs**

- During this fiscal year, Board staff determined that the original plan to adopt one Basin Plan amendment incorporating both selenium (Se) site-specific objectives (SSOs) and Se TMDLs concurrently should instead be uncoupled into separate amendments in order to proceed with development and timely adoption of the TMDLs.
- The draft technical staff report (TSR) is being updated to incorporate revised tissue-based targets.
- The revised TSR will still require additional independent peer review because the biological aspects of the SSOs/TMDLs were not fully considered during the first peer review.
- The first phase of independent peer review of the TMDLs was conducted by five scientific reviewers. Board staff needed to spend considerable time and resources to respond appropriately to the several reviewers' comments. Some comments will modify the TSR as they are incorporated.
- Some pilot selenium removal technologies were installed and tested by the regulated stakeholders. These early implementation measures continue to be monitored to evaluate selenium reductions in rising groundwater, the primary source of elevated selenium concentrations in surface waters.
- Board staff is conducting a comprehensive evaluation of toxics in Newport Bay that includes sampling for selenium. Sediment, fish tissue and water column data has been collected for approximately seven years, although due to budget constraints, some samples have not been analyzed.

##### **TMDL Development: Newport Bay Watershed Copper (Metals) TMDLs**

- Board staff is developing a copper TMDL for Upper and Lower Newport Bay, which will concentrate on reducing copper from boats and tributaries, and will include an implementation plan.
- Board staff started development of a technical staff report for metals, and the draft is almost complete. The results of the TMDL impairment assessment showed that dissolved copper exceeded CTR criterion in Upper and Lower Newport Bay, and are causing the primary impacts.
- The levels of some other metals are also adversely impacting beneficial uses. Sediment copper, zinc and mercury exceed sediment guidelines in parts of Lower Newport Bay.
- Sediment toxicity is common throughout the Bay.
- Based on this review and the new impairment assessment, RB staff found that copper from boats is still the highest source of copper in 2013.
- Board staff is also conducting a sediment study in Lower Newport Bay to determine metal concentrations in areas with exceedances of copper, zinc and mercury, and in post-dredge surface sediments; toxicity testing may be part of this study.

#### **TMDL Implementation: Middle Santa Ana River Bacterial Indicator TMDL**

- Regional Board staff continued to coordinate with stakeholders in their implementation of the MS4 agencies' Dry Season Comprehensive Bacterial Reduction Plan (CBRP). During FY 12-13, stakeholders conducted extensive monitoring of storm drain inlets to identify sources of excessive bacterial indicators concentrations.
- Santa Ana Regional Board staff coordinated with Los Angeles Regional Board staff in developing and approving a Designation Agreement for 2 cities within the Los Angeles Board's jurisdiction that drain to the Middle Santa Ana River. Pursuant to the Designation Agreement, the 2 cities must comply with the Santa Ana Region's Middle Santa Ana River TMDL requirements. Regional Board staff initiated development of a focused MS4 Permit for these cities in order to implement TMDL requirements.

#### **TMDL Implementation: Lake Elsinore/Canyon Lake Nutrient TMDL**

- Board staff provided review of MS4 agencies' draft Comprehensive Nutrient Reduction Plan and the Agriculture Nutrient Management Plan. Both Plans are required pursuant to the TMDL and the MS4 Permit.
- Continued to address compliance issues as a result of issuance of 13267 Investigative Orders to approximately 450 Agricultural Owners. The 13267 Order requires continued TMDL monitoring and completion of the Final Ag Nutrient Management Plan. Enforcement actions were initiated for those Agricultural Owners who failed to comply with the 13267 Investigative Order.
- Continued to work with stakeholders to identify funding sources for projects designed to reduce the flux of in-lake sediment nutrient loads and thereby meet the TMDL in-lake nutrient sediment load reduction requirements.

#### **TMDL Implementation: Big Bear Lake Nutrient TMDL, Newport Bay Watershed Nutrients TMDLs, Newport Bay Watershed Diazinon/Chlorpyrifos TMDLs, Newport Bay Sediment TMDLs, Newport Bay Fecal Coliform TMDL, Newport Bay Watershed Toxics TMDLs**

Oversaw TMDL implementation including the following:

- Provided extensive review and comments on stakeholder proposals for meeting TMDL WLAs.
- Worked with MS4 agencies, Caltrans and US Forest Service to submit required documents pursuant to the Big Bear Lake Nutrient TMDL.
- Board staff is participating in the incorporation of approved TMDLs' targets and allocations into the statewide Caltrans permit.

## CHALLENGES AND RESPONSES TO CHALLENGES

One of the primary challenges for this fiscal year's Regional Board TMDL Program was posed by the numerous requests to Board staff to respond to/participate in new activities and programs that involved constituents of TMDL concern in the Santa Ana Region, but that were not necessarily related directly to established TMDL development and/or implementation priorities. New activities in FY2012-13 included the Septic System impact investigations, Statewide TMDLs (e.g., mercury), nutrient numeric endpoint (NNE) committee, state permits/policies review and comment, and Performance Target development/assessment. These activities greatly constrained already limited TMDL Program staff resources. Resources are simply not sufficient to address all the needs. Prioritization of activities is necessary, often resulting in painful delays in tasks.

The development of selenium (Se) site-specific objectives (SSOs) and TMDLs for San Diego Creek and Newport Bay watershed continues to be extremely challenging because (1) rising groundwater at diffuse locations in the watershed is the predominant source of Se loading to surface water; (2) there is no standard conventional treatment technology available to treat selenium; and, (3) Se is a very complex constituent and its nature, fate and biological effects are highly site-specific. Stakeholders in the watershed committed significant resources (millions of dollars) to investigate selenium in the watershed and pilot test potential selenium treatment technologies. The stakeholders drafted a best management practices (BMPs) Strategic Plan to address both rising groundwater and point source discharges to achieve the proposed TMDLs that is being updated. Economic and certain legal difficulties must be addressed in order to proceed with implementation of TMDLs. Stakeholders are investigating possible approaches to achieve selenium reductions; Board staff expects to reflect the results, as appropriate, in a TMDL implementation plan.

A continuing major impediment that will more than likely delay compliance with the Big Bear Lake Dry Season Nutrient TMDL beyond 2015, as specified TMDL, is the fact that the US Forest Service continues to be a non-participant in any stakeholder coordinated TMDL implementation efforts. The USFS indicates they do not have the authority or funds to comply with TMDL requirements. Forest lands comprise approximately 80% of the Big Bear Lake watershed and therefore, discharges from forest lands are significant. Regional Board staff initiated development of WDRs for the USFS to develop an effective regulatory program to address forest land discharges.

## INITIATIVES IN TMDL IMPLEMENTATION

The region continues to place strong emphasis on TMDL implementation activities, including; 1), coordination with Regional Board and State Board permit and TMDL program staff to incorporate TMDL requirements into appropriate permits; 2), reviewing and commenting on TMDL deliverables; 3), interacting with stakeholders to ensure TMDL implementation timelines and requirements are met; and 4), taking appropriate enforcement steps to ensure TMDL implementation actions occur as required.

Many TMDLs, including the priority TMDLs for Newport Bay metals and selenium, and Big Bear Lake Mercury, are very complicated and controversial that requires extensive staff resources to address stakeholder concerns about the targets, allocations and implementation. With respect to the Big Bear Lake mercury TMDL, in addition to stakeholder issues with the proposed target, the major challenge is how to address atmospheric deposition, the primary mercury source to Big Bear Lake. The Regional Board has no regulatory authority over air deposition sources; Board staff has been attempting to work with the responsible air agencies. In addition, Board staff continues to work actively with State Board staff and the other regions on development of the statewide Mercury Policy.

Addressing agricultural (Ag) load allocations and Ag TMDL requirements continues to be a challenge. Most of the Regional Board's adopted TMDLs require specific actions by the Ag operators/owners including load reductions, monitoring, etc. TMDL staff continues to coordinate with NPS staff on the development of an Ag waiver.

**SAN DIEGO WATER BOARD TMDL PROGRAM**  
**Fiscal Year 2012-2013**  
**Accomplishments, Challenges and Initiatives**

This summary identifies those accomplishments, challenges and initiatives of the California Regional Water Quality Control Board, San Diego Region (San Diego Water Board) TMDL Program that are not reflected in the End of Year Report generated by Planner/Tracker.

**ACCOMPLISHMENTS**

**San Diego Regional MS4 Permit Adopted -- TMDL Implementation and Key Strategy for Attaining Water Quality Standards (numerous listings)**

In May 2013 the San Diego Water Board adopted a single MS4 permit to regulate the discharge of storm water from each of the three municipal MS4 systems in the San Diego Region including the County of San Diego and portions of Orange and Riverside Counties. (The Regional permit is the 4<sup>th</sup> generation renewal of the existing individual County MS4 permits).

The new Regional MS4 permit incorporates the requirements and waste load allocations of each of the Region's approved TMDLs and serves as the primary mechanism by which the TMDLs will be implemented. These TMDLs include the *Chollas Creek Diazinon*, *Rainbow Creek Nutrients*, *Chollas Creek Metals*, *Shelter Island Yacht Basin Copper*, *Bacteria I TMDL for Twenty Beaches and Creeks*, and *Bacteria II TMDL for Bays and Harbors*. A central provision of the MS4 permit is the requirement for the Copermittees to develop and implement Water Quality Improvement Plans for 10 watershed management areas. Each Water Quality Improvement Plan will be a comprehensive management program that outlines how the Copermittees will meet the requirements of the MS4 permit as well as the requirements of each applicable TMDL.

The Water Quality Improvement Plans will also address high-priority 303(d) impairments that lack TMDLs. Copermittees are required to develop the essential TMDL components and develop, plan, budget for, and implement pollution controls that *will attain water quality standards in a reasonable period of time*. Therefore, implementation of the requirements of this Order may allow the San Diego Water Board to include surface waters impaired by discharges from the Copermittees' MS4s in Category 4 in the Integrated Report for consideration during the next 303(d) List submittal by the State to USEPA.

**Tijuana River Valley Recovery Team -- Recovery Strategy Formally Endorsed and Binational Collaboration Underway**

Early in the fiscal year, the San Diego Water Board endorsed a comprehensive Recovery Strategy designed to encourage binational collaboration and commitment to a long-term effort to improve the water quality of the Tijuana River and Estuary. The initial focus of the Recovery Team, which was founded and led by the San Diego Water Board, is to reduce the discharges of trash and sediment from the watershed to the River and Estuary.

Important progress was made this year in initiating and cultivating working relationships between the two countries, including the conduct of a high level multi-day conference in Mexico devoted to improving water quality in the Tijuana Watershed. The most significant accomplishment to date is that the two countries have initiated the development of an official binational Minute which will document the water quality problem, commitment to addressing the problem, the range of solutions and strategies for addressing the problem, as well as the needed funding sources to support the effort. Although the Tijuana Watershed remains an enormous challenge, the ultimate goal of the Recovery Team and its Strategy is to attain water quality standards and to restore the Tijuana River and Estuary to a healthy condition.

### **NASSCO and BAE (aka Southwest Marine) Shipyard Sediment Cleanup -- Early Implementation Underway**

Progress was made towards implementing the Cleanup and Abatement Order adopted by the San Diego Water Board in March 2012. The CAO directs the cleanup of contaminated bay sediment at two shipyards in central San Diego Bay. In December 2012, the Board accepted the amended Remedial Action Plan (RAP) and urged the designated parties to begin RAP implementation. In May 2013 the Board released a tentative order that, when adopted, will establish water discharge requirements (WDRs) to implement dredge and fill activities, i.e., the sediment cleanup. The Water Board will consider adoption of the tentative WDRs in July 2013.

### **Santa Margarita Nutrient TMDL – TMDL Development Underway**

Addressing the nutrient impairment in the Santa Margarita River Watershed (i.e, River and Estuary) is one of the San Diego Water Board's highest priorities. Staff has been engaged in a large, well organized and well-funded stakeholder group during the past several years. A veteran staff member, Barry Pulver, has recently been assigned to take over the Santa Margarita project and oversee it through TMDL adoption and implementation.

### **2012 Integrated Report Development -- Underway**

Staff has devoted a significant amount of time and staff resources to the development of the 2012 Integrated Report in collaboration with State Board staff. Several staff members in the Monitoring and Research Unit (MARU) are working full time to evaluate thousands of lines of evidence.

### **San Diego Water Board's Practical Vision – To Attain Healthy Waters**

Staff has continued development and documentation of a Practical Vision for the organization throughout the 2012-13 fiscal year. A number of teams have been convened to flush out and document each of seven Practical Vision chapters. Consistent with the Water Board's mission, staff has identified the central and over-arching Practical Vision for the organization as the attainment and maintenance of Healthy Waters. Central to the Practical Vision is the need for staff to devote its limited resources towards addressing the Region's most important issues and the water bodies. This will require the Water Board to establish measurable goals and to prioritize the water bodies for restoration and

protection. Formal endorsement by the San Diego Water Board is scheduled for November 2013, after which staff will begin implementation of the Practical Vision.

### **San Diego Bay Restoration and Protection Strategy -- Development and Implementation Underway**

Addressing the impairments in San Diego Bay is one of the San Diego Water Board's highest priorities. Numerous historical restoration efforts have been completed in San Diego Bay and numerous others are currently underway. However, many more portions of San Diego Bay are impaired by a variety of pollutants and stressors and the entire Bay is currently CWA 303(d) listed for PCBs in fish tissue. Staff has initiated the development of a comprehensive San Diego Bay Restoration and Protection Strategy that will focus on the reduction of bioaccumulative pollutants and the protection of aquatic life, aquatic dependent wildlife and human health. The Bay Strategy will be an office-wide effort involving all of our regulatory programs and tools. The Strategy will be taken to the Water Board for formal endorsement prior to implementation.

### **Regional Monitoring Framework Formally Endorsed -- Basis for Assessing and Restoring Impaired Waters**

Early in the fiscal year the San Diego Water Board endorsed a Regional Monitoring Framework that will serve as the basis for assessing the health of the Region's ambient receiving waters. Central to the framework is the notion that comprehensive and coordinated region-wide ambient monitoring is needed to inform all of the Water Board's decisions. This will guide the most effective uses of our limited resources and the prioritization of impaired waters bodies to be restored and high quality waters to be protected.

## **CHALLENGES**

### **Toxic Pollutants in Sediment for Creek Mouths of Paleta, Chollas, and Switzer Creeks, San Diego Bay -- TMDL Development (6 listings)**

This complex multi-year TMDL Basin Plan amendment was completed and scheduled for Regional Board adoption on June 19, 2013. Shortly before the hearing it was pulled from the agenda because a public comment involving the procedure used to calculate the sediment numeric targets could not be resolved prior to the scheduled public hearing. Staff is currently re-evaluating the calculation procedure and the overall TMDL approach for achieving the goal of healthy waters in this portion of San Diego Bay. These TMDLs are significant because they are the first in the Region to establish sediment targets based on the SQO criteria in the Enclosed Bays and Estuaries Plan.

### **Toxic Pollutants in Sediment for Downtown Anchorage and B Street/Broadway Pier, San Diego Bay -- TMDL Development (4 listings)**

This project has also been delayed and is currently under re-evaluation in light of the concerns raised over the Paleta, Chollas and Switzer TMDL project above. The Downtown Anchorage and B Street/Broadway Pier project was initially part of Paleta, Chollas and Switzer project and has been developed to date using the same approach and methodologies.

### **Los Penasquitos Lagoon Sedimentation TMDL – TMDL Approval**

The Los Penasquitos TMDL was adopted by the San Diego Water Board in June 2012. Staff immediately initiated the subsequent approval process and has completed the State Board public review and comment period. However State Board adoption progress was halted as regional staff struggled to provide acceptable permit language for each of the Statewide General Permits including the Industrial Storm Water, Construction Storm Water, MS4 Phase II, and Caltrans permits. This was complicated by the concurrent general permit renewal processes underway at the State Board.

### **INITIATIVES in TMDL Development**

Management and staff are actively seeking opportunities for using TMDL alternatives such as the Water Quality Improvement Plans in the newly adopted Regional MS4 permit with subsequent conversion of 303(d) listed waters to category 4B or 4C. We also intend to become more efficient by identifying opportunities for the Regional Board adopt and implement TMDLs by way of a single Board action to obviate the need for TMDL adoption via Basin Plan amendment. For example, we are considering the single action approach for our Tijuana River Sediment and Trash, San Marcos Nutrients, and Famosa Slough Nutrients TMDLs.

In addition, consistent with our Healthy Waters Practical Vision, in 2013/14 we plan to make the time to prioritize each of the waters on the 2006 303(d) list. After prioritization, we will establish a cross branch team to select and implement the most effective regulatory tool(s) for addressing each high priority impairment.

## Appendix 1

### Adopted TMDLs FY 12-13

## Adopted TMDLs

Region	TMDL Project	Listings	RB Adopted	SB Approved	EPA Approved	
1	Laguna de Santa Rosa ammonia and D.O.	2	3/95		5/95	
1	Stemple Creek nutrients and sediment	2	12/97			RB adopted and in implementation no SB approval.
1	Garcia River sediment	1	5/98, 12/98 6/01	9/00, 11/01	3/02	
1	Redwood Creek sediment [workplan]	1	11/04		12/98	RB resolution directing staff to implement EPA established TMDL
1	Eel River South Fork sediment (HA111.30)	1	11/04		12/99	RB resolution directing staff to implement EPA established TMDL
1	Eel River South Fork temperature (HA111.30)	1	--		12/99	EPA established TMDL with RB assistance
1	Noyo River sediment	1	11/04		12/99	RB resolution directing staff to implement EPA established TMDL
1	Van Duzen River sediment	1	11/04		12/99	RB resolution directing staff to implement EPA established TMDL
1	Navarro River sediment	2	11/04		12/00	RB resolution directing staff to implement EPA established TMDL
1	Navarro River temperature	1	--		12/00	EPA established TMDL with RB assistance
1	Ten Mile River sediment	1	11/04		12/00	RB resolution directing staff to implement EPA established TMDL
1	Albion River sediment	1	11/04		12/01	RB resolution directing staff to implement EPA established TMDL
1	Big River sediment	1	11/04		12/01	RB resolution directing staff to implement EPA established TMDL
1	Gualala River sediment	1	11/04		12/01	RB resolution directing staff to implement EPA established TMDL
1	Trinity River sediment	4	11/04		12/01	RB resolution directing staff to implement EPA established TMDL
1	Trinity River South Fork sediment	1	--		12/01	RB resolution directing staff to implement EPA established TMDL
1	Eel River North Fork sediment (HA111.50)	1	11/04		12/02	RB resolution directing staff to implement EPA established TMDL
1	Eel River North Fork temperature (HA111.50)	2	--		12/02	EPA established TMDL with RB assistance
1	Eel River Middle Fork sediment (HA111.70)	1	11/04		12/03	RB resolution directing staff to implement EPA established TMDL
1	Eel River Middle Fork temperature (HA111.70)	2	--		12/03	EPA established TMDL with RB assistance
1	Mattole River sediment	1	11/04		12/03	RB resolution directing staff to implement EPA established TMDL
1	Mattole River temperature	1	--		12/04	EPA established TMDL with RB assistance
1	Eel River Upper Main sediment (HA111.60)	1	11/04		12/04	RB resolution directing staff to implement EPA established TMDL
1	Eel River Upper Main temperature (HA111.60)	1	--		12/04	EPA established TMDL with RB assistance
1	Salmon River temperature	2	6/05		8/05	Single action TMDL: MOU with US Forest Service
1	Eel River Middle Main sediment (HA111.40)	1	--		12/05	EPA established with RB assistance, implement under R1-2004-0087
1	Eel River Middle Main temperature (HA111.40)	1	--		12/05	EPA established TMDL with RB assistance
1	Scott River sediment and temperature	2	12/05	6/06	9/06	
1	Shasta River D.O. and temperature	2	6/06	11/06	1/07	
1	Eel River Lower Main sediment (HA111.10)	1	--		12/07	EPA established with RB assistance, implement under R1-2004-0087
1	Eel River Lower Main temperature (HA111.10)	1	--		12/07	EPA established TMDL with RB assistance
1	Mad River sedimentation and turbidity	2	--		12/07	EPA established with RB assistance, implement under R1-2004-0087
1	Lower Lost River (technical TMDL)	2	--		12/08	EPA established with RB assistance, implement under R1-2004-0087
1	Klamath River nutrients, temperature, D.O., microcystin	17	3/10	9/10	12/10	3 microcystin listings were added between listing cycles by EPA
<b>Listings Addressed</b>		<b>63</b>				
2	San Francisco Bay copper & nickel site-specific objectives	2	5/02	10/02	1/03	SSO
2	San Francisco Bay mercury	16	9/04; 8/06	7/07	2/08	SB remanded TMDL 9/05; R2 readopted TMDL 8/06
2	Tomales Bay pathogen	2	9/05	5/06	1/07	
2	San Francisco Bay urban creeks diazinon	37	10/05	10/06	5/07	
2	Napa River pathogens	1	6/06	9/07	2/08	
2	Sonoma Creek pathogens	1	6/06	9/07	2/08	
2	Napa River sediment	1	1/07, 9/09	10/10	1/11	Withdrawn for CEQA considerations; re-adopted.
2	Walker Creek mercury	1	1/07	7/08	9/08	SB consideration extended to allow E.O. Corrections
2	San Francisco Bay PCBs	15	2/08	10/09	3/10	

## Adopted TMDLs

Region	TMDL Project	Listings	RB Adopted	SB Approved	EPA Approved	
2	Richardson Bay pathogens	1	7/08	8/09	12/09	
2	Guadalupe River mercury	5	10/08	11/09	6/10	
2	Somoma Creek sediment	1	12/08	3/10	9/10	
2	Grazing Waiver - Napa and Sonoma Counties	4	9/11	--	--	TMDL adopted as a waiver of waste discharge requirements.
2	Tomaes Bay Mercury	1	5/12	--	7/12	Technical TMDL Adopted by RB Resolution/Order.
2	San Mateo Coast Pathogens (Pacifica Beaches and San Pedro Creek)	2	11/12	3/13		
<b>Listings Addressed</b>		<b>90</b>				
3	Morro Bay siltation	3	5/02	9/03	1/04	
3	San Lorenzo River nitrate	4	9/02	11/01	8/03	Adopted by RB Resolution/Order
3	Las Tablas Creek - Nacimiento Reservoir mercury	2	11/02			Revisions to implementation plan needed. No responsible party due to history of recalcitrant discharger.
3	Morro Bay pathogens	10	5/03	9/03	1/04	
3	Morro Bay, Chorro & Los Osos Creeks sediment	3	5/03	9/03	1/04	
3	San Lorenzo River sediment	4	5/03	9/03	1/04	
3	Clear Creek-Hernandez Reservoir mercury	2	3/04	--	6/04	Technical TMDL Adopted by RB Resolution submitted to EPA
3	Dairy Creek dissolved oxygen	1	12/04	--		Technical TMDL Adopted by RB Resolution submitted to EPA, awaiting EPA approval.
3	Los Osos Creek nutrients	1	12/04	--	3/05	Technical TMDL Adopted by RB Resolution submitted to EPA
3	San Luis Obispo Creek pathogen	1	12/04	5/05	9/05	
3	San Luis Obispo Creek nutrients	1	9/05	6/06	1/07	
3	Pajaro River siltation/sedimentation	4	12/05	9/06	5/07	
3	Pajaro River nutrients	2	12/05	--	10/07	Technical TMDL Adopted by RB Resolution/Order.
3	Watsonville Slough pathogens	1	3/06	9/06	3/07	Adopted by RB Order and UAA
3	Chorro Creek nutrients and dissolved oxygen	1	7/06	--	7/07	Technical TMDL Adopted by RB Resolution/Order.
3	Aptos and Valencia Creeks pathogens	2	3/08, 5/09	8/10	1/11	Withdrawn from approval process; RB adopt revised TMDL 6/09.
3	San Lorenzo River watershed pathogen	4	3/08, 5/09	3/11	7/11	Withdrawn from approval process; RB adopt revised TMDL 6/09.
3	Soquel Lagoon pathogens	1	3/08, 5/09	7/10	11/10	Withdrawn from approval process; RB adopt revised TMDL 6/09.
3	Corralitos Creek pathogens	4	3/09	4/11		Also addresses 3 2010 listings
3	Pajaro River fecal coliform (including San Benito R., Llagas Cr., and Tequesquita Slough)	12	3/09	4/10	8/10	Technical TMDL Adopted by RB Resolution/Order.
3	Salinas River fecal coliform	18	9/10	9/11	1/12	Technical TMDL Adopted by RB Resolution/Order.
3	Lower Salinas River chlorpyrifos and diazinon	35	5/11		10/11	Technical TMDL Adopted by RB Resolution/Order.
3	Arroyo de la Cruz bacteria	1	5/11		11/11	Technical TMDL Adopted by RB Resolution/Order.
3	Cholame Creek Bacteria	2	5/11		11/11	Technical TMDL Adopted by RB Resolution/Order.
3	San Antonio River Bacteria	2	5/11		11/11	Technical TMDL Adopted by RB Resolution/Order.
3	San Lorenzo Creek Bacteria	2	5/11		11/11	Technical TMDL Adopted by RB Resolution/Order.
3	Tularcitos Creek Bacteria	1	5/11		11/11	Technical TMDL Adopted by RB Resolution/Order.
3	Santa Maria River Watershed fecal coliform	21	3/12	10/12	4/13	
3	San Antonio Creek chlopyrifos	1	5/12	6/12		
3	Los Berros Creek nitrate	1	5/12	6/12		
3	Santa Maria River Watershed nutrients	36	3/13			
3	Salinas River Nutrients	45	3/13			
3	Arroyo Paredon Diazinon	2	3/13			
3	Bell Creek Nitrate	1	5/13			
3	Jalama Creek Sodium and Chloride	2	5/13			
<b>Listings Addressed</b>		<b>233</b>				

## Adopted TMDLs

Region	TMDL Project	Listings	RB Adopted	SB Approved	EPA Approved	
4	East Fork San Gabriel River Trash	1	10/99	6/00	12/00	
4	Ballona Creek Trash	1	9/01, 3/04	2/02, 9/04	8/02	
4	Los Angeles River Trash	7	9/01	2/02	8/02	
4	Los Angeles River Watershed Lakes Trash	3	9/01			
4	Santa Monica Bay Beaches Coliform dry weather	51	1/02	9/02	6/03	Dry-Weather and Wet-Weather may be considered one TMDL. Listing did not differentiate between seasons. Only counted once in number of
4	Calleguas Creek Chloride	6	--	--	3/02	Technical TMDL drafted by RB, established by EPA
4	Santa Monica Bay Beaches Wet Weather Bacteria	51	12/02	3/03	6/03	see note above
4	Calleguas Creek Nitrogen	30	10/02	3/03	6/03	
4	Santa Clara River Chloride Reach 3	1	10/02	--	6/03	Remanded by SB, Objective change BPA 11/03; EPA established with Reg. Bd. Assistance
4	Malibu Creek nutrients	28	--	--	3/03	EPA established with RB technical assistance
4	Santa Clara River Chloride Reach 7 & 8	2	10/03, 5/04, 8/06	7/04, 5/07	4/05,	Remanded by SB, Revised approved by SB 7/04; 8/06 revised implementation plan only, EPA approval not needed.
4	Los Angeles River Nitrogen	33	7/03, 12/03	11/03, 3/04	3/04	
4	Santa Clara River Nitrogen	6	7/03	11/03	3/04	
4	Marina del Rey Pathogens	3	8/03	11/03	3/04	
4	McGrath Beach Coliform	1	8/03	--	--	CAO
4	Los Angeles Harbor Beach Closures	2	7/04	10/04	3/05	
4	Malibu Creek Pathogens	12	12/04	9/05	1/06	
4	Los Angeles River Metals/Toxics	18	6/05	10/05	12/05	
4	Ballona Creek Metals	9	7/05	10/05	12/05	
4	Ballona Creek Toxics	11	7/05	10/05	12/05	
4	Calleguas Creek Historic pesticides	62	7/05	9/05	3/06	
4	Calleguas Creek Toxicity	10	7/05	9/05	3/06	
4	Calleguas Creek PCBs	5	7/05	9/05	3/06	
4	Marina del Rey Toxics	6	10/05	1/06	3/06	
4	Marina del Rey Harbor-Back Basin Metals (AU #56)	3	10/05	1/06	3/06	
4	Ballona Creek Coliform	4	6/06	11/06	3/07	
4	Calleguas Creek metals	6	6/06	10/06	3/07	
4	San Gabriel River metals	7	7/06	--	3/07	Withdrawn by Region; EPA established with Reg. Bd. Assistance
4	Calleguas Creek trash	2	6/07	12/07	2/08	
4	Legg Lake trash	1	6/07	12/07	2/08	
4	Machado Lake trash	1	6/07	12/07	2/08	
4	Santa Clara River trash	3	6/07	12/07	2/08	
4	Ventura River Estuary trash	1	6/07	12/07	2/08	
4	Los Angeles River trash (re-adoption)	--	8/07	4/08	7/08	Re-adoption in compliance with Court decision; original TMDL addressed 7 listings, current TMDL addresses 14.
4	Los Angeles River metals (re-adopted in compliance with a writ of mandate)	--	9/07	6/08	10/08	Re-adoption in compliance with Court decision
4	Ballona Creek metals (re-adoption)	--	9/07	6/08	10/08	Re-adoption in compliance with Court decision
4	Calleguas Creek boron/sulfate/TDS	31	10/07	5/08	12/08	
4	Harbor Beaches of Ventura County	2	10/07	10/08	12/08	
4	Malibu Creek Watershed trash	7	5/08	3/09	6/09	
4	Machado Lake nitrogen	4	5/08	12/08	3/09	
4	Calleguas Creek Nitrogen Compounds and Related Effects	27	9/08	6/09	10/09	

## Adopted TMDLs

Region	TMDL Project	Listings	RB Adopted	SB Approved	EPA Approved	
4	Santa Clara River reconsideration	2	12/08	10/09	4/10	
4	Colorado Lagoon pesticides, PAH's, PCB's, metals, etc.	8	10/09	11/10	6/11	(zinc, lead)
4	McGrath Lake Pesticides	5	10/09	12/10	6/11	
4	Los Cerritos Metals	3	--	--	3/10	EPA established with RB technical assistance
4	Los Angeles River metals (re-opened & modified))	--	5/10	4/11	11/11	Modified to incorporate discharger generated WER
4	Santa Clara River Coliform (23b & 34)	5	7/10	10/11	1/12	Reach 3 is not on the 303(d) list, but is impaired per RB Res.
4	Los Angeles River Pathogens (15)	17	7/10	11/11	3/12	
4	Machado Lake toxics (73b)	5	9/10	12/11	3/12	
4	Santa Monica Bay offshore/nearshore debris (66)	1	11/10	12/11	3/12	
4	Santa Clara River Estuary (33) Toxaphene	1	11/10	n/a	n/a	Toxaphene adopted by the Regional Board as a single regulatory action
4	Dominguez, LA/LB Harbors, San Pedor Bay Metals (75 & 78), toxics (73a) and PAHs (74)	74	5/11	2/12	3/12	
4	Oxnard Drain No. 3 (8)	6	--	--	10/11	EPA established with RB technical assistance
4	El Dorado Lakes, Puddingstone Reservoir and Santa Fe Dam Park Lake copper (42)	6	1/12	--	3/12	TMDL adopted as an enforcement order.
4	Avalon Beach Bacteria Indicators (nonCD)	1	4/12	--		TMDL adopted as an enforcement order first (CDO)
4	Ballona Creek wetlands sediment and exotics (65)	4	--	--	3/12	EPA established with RB technical assistance
4	Long Beach Beaches bacteria	1	--	--	3/12	EPA established with RB technical assistance
4	Los Angeles Area Lakes Nutrients, Hg, Trash, Organochlorine pesticides, PCBs (58)	33	--	--	3/12	EPA established with RB technical assistance
4	Santa Monica Bay DDT, PCBs	60	--	--	3/12	EPA established with RB technical assistance
4	Los Angeles Harbor Beaches - Beach Closures (72) (re-consideration)	--	6/12	3/13		
4	Malibu Pathogens (47 in part) (re-consideration)	--	6/12	3/13		
4	Marina del Rey Pathogens (46) (reconsideration)	--	6/12	3/13		
4	Santa Monica Bay Beach Closures/Coliform/Bacteria Indicators (48) (re-consideration)	--	6/12	3/13		
4	Ballona Creek Coliform (49) (re-consideration)	--	6/12	3/13		
4	Ventura River algae/nutrients (88)	6	12/12	2/13		
4	Los Angeles River nitrogen (11) (re-consideration)	--	12/12	2/13		
4	Los Cerritos Channel metals (84)	3	6/13			
4	San Gabriel River metals (39)	9	6/13			
4	Malibu Creek and Lagoon Benthic Community Impairmanets	3			7/13	EPA adopted with RB assistance
4	Ventura River Reaches 3 and 4 Pumping and Water Diversion	4	—	—	6/13	EPA found that the Ventrua R. algae TMDL addressed these listings
<b>Listings Addressed</b>		664				
5	Grasslands Marsh Selenium	1	96	1996	5/00	
5	Salt Slough Selenium	1	96	1996	1999	
5	San Joaquin River Selenium	1	96	1996	3/02	
5	Sacramento River Cadmium, Copper & Zinc	3	5/02	--	6/02	Submitted as a technical TMDL report
5	Clear Lake Mercury	1	12/02	5/03	9/03, 10/03	
5	Sacramento and Feather River Diazinon	2	10/03	4/04	8/04	
5	Sacramento Area Urban Creeks diazinon	10	9/04	--	11/04	Adopted by Resolution. Implemented via MS4 permit
5	San Joaquin River Salt and Boron	2	9/04	11/05	2/07	TMDL is complete for the Stanislaus to Vernalis reach only.

## Adopted TMDLs

Region	TMDL Project	Listings	RB Adopted	SB Approved	EPA Approved	
5	San Joaquin River Dissolved Oxygen	1	1/05	11/05	2/07	
5	San Joaquin River Diazinon and Chlorpyrifos	8	10/05	5/06	12/06	
5	Cache, Bear and Sulphur Creeks Mercury	4	10/05	7/06	2/07	
5	Clear Lake nutrient	1	6/06	4/07	9/07	
5	Delta Diazinon and Chlorpyrifos	24	6/06	5/07	10/07	Marsh Creek and Old River added per the 2010 Integrated Report
5	Sacramento/Feather diazinon & chlorpyrifos	2	5/07	2/08	8/08	
5	Stockton Area Sloughs and Rivers pathogens	8	3/08	--	5/08	TMDL adopted as a MS4 permit
5	Sacramento-San Joaquin Delta methylmercury	8	4/10	6/11	10/11	
<b>Listings Addressed</b>		<b>77</b>				
6	Heavenly Valley sediment	1	1/01	9/01	9/02	
6	Indian Creek Reservoir phosphorus	1	7/02	1/03	7/03	
6	Squaw Creek sediment	1	4/06	2/07	7/07	
6	West Fork Carson River sodium objectives	2	12/06	9/07	9/08	Site-specific objective for two segments of the West Fork.
6	Blackwood Creek sediment	1	10/07	--	7/08	Adopted by RB Resolution/Order submitted directly to EPA
6	Truckee River, and Bronco and Gray Creeks Sediment	3	5/08	3/09	9/09	
6	Lake Tahoe nutrients/sediment	3	11/10	4/11	8/11	
<b>Listings Addressed</b>		<b>12</b>				
7	Alamo River Sediment	1	6/01	2/02	6/02	
7	New River Pathogen	1	10/01	3/02	8/02	
7	New River Sediment	1	6/02	11/02	3/03	
7	Imperial Valley Drains (Niland 2, P, Pumice) Sediment	1	1/05	7/05	9/05	
7	New River trash	1	6/06	4/07	9/07	
7	Coachella Valley Storm Channel pathogen TMDL	1	5/07, 6/10	6/11	4/12	Withdrawn by Region
7	New River dissolved oxygen	1	5/10	12/11	11/12	
<b>Listings Addressed</b>		<b>7</b>				
8	Santa Ana River Reach 3 Nutrients	1	11/91			
8	Newport Bay & San Diego Creek Nitrogen	4	10/98	11/98	4/99	
8	Newport Bay & San Diego Creek Phosphorus	4	10/98	11/98	4/99	
8	Newport Bay & San Diego Creek Sediment	3	10/98	11/98	4/99	
8	Newport Bay & San Diego Creek Fecal Coliform	2	4/99	7/99	2/00	
8	Newport Bay Watershed Chlorpyrifos	4	4/03	10/03	2/04	
8	Newport Bay Watershed Diazinon	4	4/03	10/03	2/04	
8	Lake Elsinore Watershed Nutrient TMDL	3	12/04	5/05	9/05	
8	Middle Santa Ana R. (Prado area streams) pathogen	6	8/05	5/06	5/07	
8	Knickerbocker Creek Bacteria	1	11/05			Reg. Bd. addressed through enforcement action, awaiting EPA approval
8	Big Bear watershed nutrient	2	4/06	4/07	9/07	
8	Newport Bay Watershed Organochlorine Compounds	12	9/07, 7/11	10/12		Withdrawn from State Board consideration, re-adopted
<b>Listings Addressed</b>		<b>46</b>				

## Adopted TMDLs

Region	TMDL Project	Listings	RB Adopted	SB Approved	EPA Approved	
9	Chollas Creek Diazinon	1	6/02	7/03	11/03	
9	Rainbow Creek nutrient	2	12/04	11/05	3/06	
9	Shelter Island Yacht Basin Dissolved Copper	1	2/05	11/05	2/06	
9	Chollas Creek Metals	3	6/05, 6/07	7/08	12/08	
9	Bacteria impaired waters I (creeks and beach shorelines)	50	12/07, 2/10	12/10	6/11	
9	San Diego Bay & Dana Point Harbor shorelines bacteria	2	6/08	6/09	10/09	
9	Tecolote Creek bacteria	1	2/10	12/10	6/11	
9	NASSCO and BAE (aka Southwest Marine)	5	3/12	--	not needed	TMDL adopted as a Cleanup and Abatement Order
9	Los Penasquitos Lagoon Sedimentation	1	6/12			
<b>Listings Addressed</b>		<b>66</b>				
<b>Total Number of Listings Addressed Statewide</b>						
		<b>1258</b>				

Number of 303(d) listings (2010) = 3,489  
     TMDL Adoptions = 187  
     TMDL Re-considerations = 10  
 Total Number of TMDL Adoptions and Re-considerations = 197  
     Listings Address by TMDL Adoption = 1258  
 Percentage of 2010 Listings Addressed = 36%

Listings Addressed by Delisting = 516

Total of All Listings Addressed = 1,774  
 2010 listing remaining to be addressed = 2,231

## Appendix 2

### Status of FY 12-13 TMDL Implementation Tasks

Reg.	Project Name	Task Name	Task Description	Deliverable Name	Deliverable Description	Status	Task Status Comment	Plan Start Date	Actual End Date
1	Elk River Sediment	Revise Watershed WDRs - Coordination		(1) Correspondences, (2) Meeting Notes		Completed		7/1/12	6/1/13
1	Freshwater Creek Sediment	Revisions of Watershed WDRs - Coordination		(1) Correspondences, (2) Meeting Notes		Completed		7/1/12	6/1/13
1	Garcia River Sediment	319(h) Grant Management	For Fish Rock Rd Sediment Reduction project, Garcia TMDL Headwaters Grants, and Gracia TMDL Planning Grant	(1) Invoices, (2) Grant Products, & (3) Correspondences		Completed		7/1/12	6/1/13
1	Garcia River Sediment	Biological Objectives Workgroup	Includes Causal Analysis / Stress Identification Project	(1) Correspondences, (2) Meeting Notes, (3) Regional Comments on Draft Products		Completed		7/1/12	6/1/13
1	Garcia River Sediment	Compliant Response		(1) Correspondences, (2) Inspection Reports, (3) Enforcement (if necessary)		Completed		7/1/12	6/1/13
1	Garcia River Sediment	Erosion Control Plan & Management Plan Review		(1) Landowner-completed Erosion Control Plans and Management Plans		Completed		7/1/12	6/1/13
1	Garcia River Sediment	Instream Water Quality Monitoring		(1) Water Samples, (2) CEDEN & SWAMP database entry		Completed		7/1/12	6/1/13
1	Garcia River Sediment	Monitoring Report Review		(1) Landowner-completed Monitoring Reports, (2) Inspection Reports		Completed		7/1/12	6/1/13
1	Garcia River Sediment	Outreach, Education, & Coordination		(1) Correspondences, (2) Meeting Notes		Completed		7/1/12	6/1/13
1	Garcia River Sediment	Regional Board Update		(1) Summary Report		Completed		9/1/12	1/1/13
1	Garcia River Sediment	Regional Wide Sediment Monitoring		(1) Water Samples		Delayed	Over ambitious planning of available monitoring resources (RMF 6/24/2013).	7/1/12	
1	Garcia River Sediment	Wood for Salmon Workgroup		(1) Correspondences and (2) Meeting Notes		Completed		7/1/12	6/1/13
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	Implementation Integration with KBMP, KTAP, KFAT, KHS	Contract funds to Humboldt State University Sponsored Programs	(1) Correspondences, (2) Meeting Notes, (3) Webpage Updates, (4) Coordination		Completed		7/1/12	6/1/13
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	KFAT Coordination	Klamath Fish Health Assessment Team (KFAT) Coordination	(1) Meeting Minutes, (2) Agenda, & (3) Correspondences		Completed		7/1/12	6/1/13
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	KFAT Reporting		(1) End of Year Summary		Completed		11/1/12	12/1/12

Reg.	Project Name	Task Name	Task Description	Deliverable Name	Deliverable Description	Status	Task Status Comment	Plan Start Date	Actual End Date
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	Klamath Basin Monitoring Program - Involvement	Includes participation in KBMP full membership meetings, Steering Committee meetings, Blue-Green Algae Workgroup meetings, and framework development and implementation.	(1) Meeting Notes, (2) Comments on Draft Documents, (3) Correspondences		Completed		7/1/12	6/1/13
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	Klamath Hydropower Project WQ Mgmt Plan - Oversight		(1) Correspondences, (2) Meeting Notes		Completed		7/1/12	6/1/13
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	Klamath Tracking & Accounting Program - Management		(1) Correspondences, (2) Meeting Notes, (3) Program Documents		Completed		7/1/12	6/1/13
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	MOA Coordination with ODEQ, EPA, & RWB		(1) Correspondences, (2) Meeting Notes		Completed		7/1/12	6/1/13
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	Outreach & Education		(1) Presentations, (2) Webpage, (3) Meeting Notes, (4) Correspondences		Completed		7/1/12	6/1/13
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	Pollutant Reduction Conceptual Feasibility Plan - Management		(1) Correspondences, (2) Meeting Notes		Completed		7/1/12	6/1/13
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	Pollutant Reduction Conceptual Feasibility Plan - Post-Workshop Report		(1) Post-Workshop Report		Completed		11/1/12	12/1/12
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	Pollutant Reduction Conceptual Feasibility Plan - Workshop		(1) Workshop		Completed		7/1/12	9/1/12
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	Regional Board Update		(1) Presentation, (2) EOSR		Completed		1/1/13	1/1/13
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	Secretarial Determination - Coordination		(1) Correspondences, (2) Meeting Notes		Completed		7/1/12	2/1/13
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	USFWS, BOR, & TID Compliance with TMDL - Coordination		(1) Coordination, (2) Correspondences, (3) Meeting Minutes		Completed		7/1/12	6/1/13
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	USFWS, BOR, & TID Compliance with TMDL - MAA Development		(1) Draft Management Agency Agreement		Completed		7/1/12	6/1/13
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	Water Quality Improvement Pilot Project - Oversight		(1) Correspondences, (2) Meeting Notes		Completed		7/1/12	6/1/13
1	Salmon River Temperature	Contract Management		(1) Correspondences, (2) Meeting Notes, (3) Invoices		Completed		7/1/12	6/1/13

Reg.	Project Name	Task Name	Task Description	Deliverable Name	Deliverable Description	Status	Task Status Comment	Plan Start Date	Actual End Date
1	Salmon River Temperature	Monitoring and Reporting		(1) Contract Deliverables, (2) Correspondences, (3) Invoices		Completed		7/1/12	6/1/13
1	Salmon River Temperature	USFS MOU Implementation		(1) Correspondences, (2) Meeting Notes		Completed		7/1/12	6/1/13
1	Salmon River Temperature	USFS Waiver Implementation		(1) Correspondences, (2) Meeting Notes		Completed		7/1/12	6/1/13
1	Scott River Sediment & Temperature	Compliant Response		(1) Correspondences, (2) Site Visits, (3) Compliant Reports		Completed		7/1/12	6/1/13
1	Scott River Sediment & Temperature	Contract Management	For Siskiyou RCD & UC Davis contracts	(1) Contract Deliverables, (2) Correspondences, (3) Invoices		Completed		7/1/12	6/1/13
1	Scott River Sediment & Temperature	Groundwater Study - Phase II Implementation		(1) Status Reports, (2) Correspondences		Completed		7/1/12	6/1/13
1	Scott River Sediment & Temperature	Groundwater Study Contract	Contract with UC Davis	(1) Contract Deliverables, (2) Correspondences, (3) Invoices		Completed		7/1/12	6/1/13
1	Scott River Sediment & Temperature	Outreach, Education, & Coordination		(1) Correspondences, (2) Meeting Notes		Completed		7/1/12	6/1/13
1	Scott River Sediment & Temperature	Ranch Planning, Workshops, Monitoring	Contract with Siskiyou RCD	(1) Ranch Plans, (2) Workshop Notes, (3) Correspondences		Completed		7/1/12	6/1/13
1	Scott River Sediment & Temperature	Waiver Implementation		(1) Coordination, (2) Correspondences, (3) Meeting Minutes, (4) Inspections		Completed		7/1/12	6/1/13
1	Scott River Sediment & Temperature	Waiver Revision - Regional Board Hearing		(1) Adopted final Waiver, (2) Resolution, (3) Presentation, (4) EOSR		Completed		9/1/12	10/1/12
1	Scott River Sediment & Temperature	Waiver Revision - Regional Board Workshop		(1) Presentation, (2) EOSR		Completed		7/1/12	8/1/12
1	Scott River Sediment & Temperature	Waiver Revision - Staff Draft		(1) Staff Draft of the final Waiver		Completed		7/1/12	8/1/12
1	Shasta River DO & Temperature	Contract & Grant Management		(1) Invoices, (2) Contract/Grant Products, & (3) Correspondences		Completed		7/1/12	6/1/13
1	Shasta River DO & Temperature	Implement Tailwater Management Actions		(1) Project Plans, (2) Update Reports		Completed		7/1/12	6/1/13
1	Shasta River DO & Temperature	Outreach, Education, & Consultations		(1) Correspondences, (2) Meeting Notes		Completed		7/1/12	6/1/13

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1	Shasta River DO & Temperature	Ranch Planning, Workshops, Monitoring		(1) Ranch Plans, (2) Workshop Notes, (3) Correspondences		Completed		7/1/12	6/1/13
1	Shasta River DO & Temperature	Waiver Development		(1) Public Review Draft of the Proposed Waiver		Completed		7/1/12	10/1/12
1	Shasta River DO & Temperature	Water Rights & Dedicated Cold Water Meeting Coordination		(1) Correspondences, (2) Meeting Notes		Completed		7/1/12	6/1/13
2	Butano & Pescadero Creeks sediment	Conduct Early Implementation	Review of timber harvest plans as they become available ( anticipate 2 per/year with accompanying site visits)	timber harvest plan review and comment (as they become available throughout the year)	One timber harvest plan received in Dec. 2012. Site visit/pre-harvest inspection in January 2013.	Completed		7/1/12	6/1/13
2	Guadalupe River Watershed Mercury	Conduct Implementation		Implementation Status Report		Completed		7/1/12	6/1/13
2	Napa River Sediment	Conduct Implementation	Provide technical support for: a) tineryard WDR development; b) TMDL Tracking and accounting system ( US EPA grant with Napa County)	Progress Report	Status update to Board on Napa River sediment TMDL implementation; provided assistance for draft Measure W for Napa River watershed, and participated in ongoing meeting with EPA and Napa County on the dev. of a TMDL implementation tracking system.	Completed		7/1/12	12/1/12
2	San Francisco Bay Mercury	Conduct Early Implementation	Develop draft watershed permit, manage wetlands contract, review CEP & RMP workgroup products	Progress Report	Summary of tasks undertaken to implement TMDL	Cancelled		7/1/03	6/1/08
2	San Francisco Bay Mercury	Conduct Implementation	Reissue Wtrshed Hg NPDES wastewater permit, coord. on sw implementation via MRP and CT sw permits, participate in RMP Hg Strategy workgroup	Implementation status report		Completed	Reissue Wtrshed Hg NPDES wastewater permit, coord. on sw implementation via MRP and CT sw permits, participate in RMP Hg Strategy workgroup	7/1/12	6/1/13
2	San Francisco Bay PCBs	Conduct Implementation	Technical contact for PCB municipal SW permit requirements; support for TMDL pilot projects required by sw permit, point of contact for Bay Fish risk management project; participate in Fish tissue monitoring strategy	Progress Report	Annual summary of implementation progress for PVBs via Executive Officer's Report or equivalent	Completed		7/1/12	6/1/13

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2	San Francisco Bay Urban Creeks Diazinon	Conduct Implementation	Comment on key DPR and USEPA pesticide-related activities; participate in committee meetings (e.g., Urban Pesticide Committee), serve as point of contact for Permittee's compliance with pesticide provisions in the municipal regional sw permit, and serve as technical contact for pesticide-related grant projects	Progress Report	Annual summary of implementation progress via Executive Officer's report or equivalent	Completed		7/1/12	6/1/13
2	Walker Creek Mercury	Conduct Implementation	Oversight of ranchers, work w MMWD on Soul. Reservoir Hg study, and monitoring to assess progress.	Implementation status report		Completed	Continued work with MMWD on reservoir monitoring and management to minimize MeHg. Delayed for one year during-storm sampling of Walker Creek for sediment because of very dry year and few available storms.	7/1/12	6/1/13
3	Arroyo Paredon Diazinon	Implementation Planning		Impl and Mon Plan	Develop Impl and Mon Plan consistent with approved Ag Order: Angela	Completed		10/1/12	1/1/13
3	Los Osos Creek Nutrients	Implementation Analysis		Progress Report	Report of progress in implementing TMDL: Howard	Completed		4/1/13	4/1/13
3	Lower Salinas River Chlorpyrifos and Diazinon TMDL	Implementation Actions		Progress Report	Ag Program Efforts: Ag Program impl TMDLs	Completed		7/1/12	6/1/13
3	Lower Salinas River Chlorpyrifos and Diazinon TMDL	Implementation Efforts (Enf)		Progress Report	Enforcement of Ag Order in TMDL Watersheds: AgOrder Staff	Completed		7/1/12	6/1/13
3	Morro Bay Sediment	Manage Grant		Progress Report	Manage Public Roads 319 Grant: Howard	Completed		7/1/12	6/1/13
3	Morro Bay Sediment	Manage Grant		Progress Report	Manage Watershed Enhancement 319 grant: Katie	Completed		7/1/12	6/1/13
3	Pajaro River Fecal Coliform (including San Benito R., Llagas Cr., and Tequesquita Slough)	Implementation Actions		Progress Report	ID dischargers & obtain compliance docs from them, leverage existing efforts: Kim	Completed		7/1/12	6/1/13
3	Pajaro River Fecal Coliform (including San Benito R., Llagas Cr., and Tequesquita Slough)	Manage Grant		Progress Report	Manage Planning/Assessment 319 Grant: Kim	Completed	grant awarded, then grantee withdrew. leftover time spent on implementation actions task.	7/1/12	6/1/13
3	Pajaro River Siltation/Sedimentation (including San Benito R., Llagas Cr., Rider Gulch Cr.)	Contract Management		Contract Progress Report	Manage Numeric Target Development contract: Howard	Completed		7/1/12	6/1/13
3	Pajaro River Siltation/Sedimentation (including San Benito R., Llagas Cr., Rider Gulch Cr.)	Implementation Actions	ID dischargers & obtain compliance docs from them, leverage existing efforts	Progress Report	ID dischargers & obtain compliance docs from them, leverage existing efforts: Kim; 0.2.	Completed		7/1/12	6/1/13

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3	Pajaro River Siltation/Sedimentation (including San Benito R., Llagas Cr., Rider Gulch Cr.)	Implementation Actions (SW)		Progress Report	Stormwater staff efforts to implement TMDLs: StmWtr Staff	Completed		7/1/12	6/1/13
3	Pajaro River Watershed Nutrient TMDL	Grant Management		Progress Report	Manage 319 Grant for Pinto Lake: Monica	Completed		7/1/12	6/1/13
3	Pajaro River Watershed Nutrient TMDL	Implementation Actions		Progress Report	Ag Program implementation efforts.	Completed		7/1/12	6/1/13
3	Salinas River Nutrients	Implementation Actions		Progress Report	Enforcement of current order: AgOrder Staff	Completed		7/1/12	6/1/13
3	Salinas River Nutrients	Implementation Actions	Implement Ag Order - LHarlan	Assist AgProg staff implement TMDLs	Localized GIS info needed for NPS implementation; Ag and TMDL support: Larry	Completed		7/1/12	6/1/13
3	Salinas River Nutrients	Implementation Actions		Progress Report	Stormwater staff efforts: StmWtr	Completed		7/1/12	6/1/13
3	San Lorenzo River Sediment	Manage Grant	Manage Livestock & Land Grant	Progress Report	Manage Livestock & Land Grant: Howard	Completed		7/1/12	3/1/13
3	San Lorenzo River Sediment	Manage Grant		Progress Report	Manage Roads Grant: Alison	Not Started		7/1/12	
3	San Luis Obispo Creek Nutrients	Implementation Analysis		Progress Report	Report of progress in implementing TMDL: Howard	Completed		3/1/13	4/1/13
3	San Luis Obispo Creek Pathogen	Implementation Analysis		Progress Report	Report progress in implementation of TMDL: Howard	Completed		3/1/13	3/1/13
3	Santa Maria River Watershed TMDL	Contract Management		Contract Progress Report	Manage bioreactor project with RCD: Peter Meertens	Completed		8/1/12	6/1/13
3	Santa Maria River Watershed TMDL	Grants Management (D)		Progress Report	Manage grants and contracts in TMDL and listed watersheds: Diane	Completed		7/1/12	6/1/13
3	Santa Maria River Watershed TMDL	Implementation Actions (SW)		Progress Report	Stormwater staff efforts: StmWtr	Completed		7/1/12	6/1/13
3	Santa Maria River Watershed TMDL	Implementation Planning		Impl and Mon Plan	Develop Imp and Mon Plan consistent with Ag Order: Angela	Completed		7/1/12	2/1/13
3	Watsonville Slough Pathogen	Implementation Analysis		Progress Report	Report of progress in implementing TMDL: Howard	Completed		1/1/13	1/1/13
4	Ballona Creek Coliform (49)	Conduct Implementation (LA MS4)	With stormwater staff, develop MS4 permit language, assist with Los Angeles MS4 adoption	Incorporate into LA MS4		Completed		7/1/12	11/1/12
4	Ballona Creek Metals (57)	Conduct Implementation (LA MS4)	With stormwater staff, develop MS4 permit language, assist with Los Angeles MS4 adoption	Incorporate into LA MS4		Completed		7/1/12	12/1/12
4	Ballona Creek Toxics (55)	Conduct Implementation (LA MS4)	With stormwater staff, develop MS4 permit language, assist with Los Angeles MS4 adoption	Incorporate into LA MS4		Completed		7/1/12	11/1/12
4	Ballona Creek Trash (51)	Conduct Implementation (LA MS4)	With stormwater staff, develop MS4 permit language, assist with Los Angeles MS4 adoption	Incorporate into LA MS4		Completed		7/1/12	11/1/12

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4	Ballona Wetland (65)	Conduct Implementation (LA MS4)	With stormwater staff, develop MS4 permit language for this EPA TMDL, assist with Los Angeles MS4 adoption	Incorporate into LA MS4		Completed		7/1/12	11/1/12
4	Calleguas Creek Metals (6)	Implementation Analysis		information item for Board		Completed		11/1/12	5/1/13
4	Calleguas Creek Trash (9)	Conduct Implementation		MFAC waiver		Completed		7/1/12	3/1/13
4	Colorado Lagoon Pesticides, PAH's, PCB, Metals etc TMDL (82 & 83)	Conduct Implementation (LA MS4)		Incorporate into LA MS4		Completed		7/1/12	11/1/12
4	Colorado Lagoon Pesticides, PAH's, PCB, Metals etc TMDL (82 & 83)	Conduct Implementation (LB MS4)		Incorporate into LB MS4		Delayed	Adoption of LB MS4 delayed	12/1/12	
4	Dominguez, LA/LB Harbors, San Pedro Bay Metals (75 & 78), toxics(73a) and PAHs (74)	Conduct Implementation (LA MS4)	With stormwater staff, develop MS4 permit language, assist with Los Angeles MS4 adoption	Incorporate into LA MS4		Completed		7/1/12	11/1/12
4	Dominguez, LA/LB Harbors, San Pedro Bay Metals (75 & 78), toxics(73a) and PAHs (74)	Conduct Implementation (LB MS4)	With stormwater staff, develop MS4 permit language, assist with Long Beach MS4 adoption	Incorporate into LB MS4		Delayed	Adoption of LB MS4 Delayed	12/1/12	
4	Echo, Lincoln, Peck, Calabasas Eutrophications (17) and Trash (16)	Conduct Implementation (LA MS4)	With stormwater staff, develop MS4 permit language for EPA TMDL, assist with Los Angeles MS4 adoption	Incorporate into LA MS4		Completed		7/1/12	11/1/12
4	Harbor Beaches of Ventura County (nonCD)	Contract Management		QMRA study oversight		Completed		7/1/12	6/1/13
4	Legg Lake Trash (40)	Conduct Implementation		MFAC waiver		Completed		7/1/12	3/1/13
4	Legg Lake Trash (40)	Conduct Implementation (LA MS4)		Incorporate into LA MS4		Completed		7/1/12	11/1/12
4	Long Beach City Beach Indicator Bacteria	Conduct Implementation (LA MS4)	With stormwater staff, develop MS4 permit language for EPA TMDL, assist with Los Angeles MS4 adoption	Incorporate into LA MS4		Completed		7/1/12	11/1/12
4	Long Beach City Beach Indicator Bacteria	Conduct Implementation (LB MS4)	With stormwater staff, develop MS4 permit language for EPA TMDL, assist with Long Beach MS4 adoption	Incorporate into LB MS4		Delayed	Adoption of LB MS4 delayed	12/1/12	
4	Los Angeles Harbor Beaches - Beach Closures (72)	Conduct Implementation (LA MS4)	With stormwater staff, develop MS4 permit language, assist with Los Angeles MS4 adoption	Incorporate into LA MS4		Completed		7/1/12	11/1/12
4	Los Angeles Harbor Beaches - Beach Closures (72)	Implementation Analysis, Review Implementation Plans/Models		Review Implementation Plans/Models		Completed		7/1/12	6/1/13

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4	Los Angeles River Metals (13)	Conduct Implementation (LA MS4)	With stormwater staff, develop MS4 permit language, assist with Los Angeles MS4 adoption	Incorporate into LA MS4		Completed		7/1/12	11/1/12
4	Los Angeles River Metals (13)	Conduct Implementation (LB MS4)	With stormwater staff, develop MS4 permit language, assist with Long Beach MS4 adoption	Incorporate into LB MS4		Delayed	Adoption of LB MS4 delayed	12/1/12	
4	Los Angeles River Nitrogen (11)	Conduct Implementation (LA MS4)	With stormwater staff, develop MS4 permit language, assist with Los Angeles MS4 adoption	Incorporate into LA MS4		Completed		7/1/12	11/1/12
4	Los Angeles River Nitrogen (11)	Conduct Implementation (LB MS4)	With stormwater staff, develop MS4 permit language, assist with Long Beach MS4 adoption	Incorporate into LB MS4		Delayed	Adoption of LB MS4 delayed	12/1/12	
4	Los Angeles River Pathogens (15)	Conduct Implementation (LA MS4)	With stormwater staff, develop MS4 permit language, assist with Los Angeles MS4 adoption	Incorporate into LA MS4		Completed		7/1/12	11/1/12
4	Los Angeles River Pathogens (15)	Conduct Implementation (LB MS4)	With stormwater staff, develop MS4 permit language, assist with Long Beach MS4 adoption	Incorporate into LB MS4		Delayed	Adoption of LB MS4 delayed	12/1/12	
4	Los Angeles River Trash (12)	Conduct Implementation (LA MS4)	With stormwater staff, develop MS4 permit language, assist with Los Angeles MS4 adoption	Incorporate into LA MS4		Completed		7/1/12	11/1/12
4	Los Angeles River Trash (12)	Conduct Implementation (LB MS4)	With stormwater staff, develop MS4 permit language, assist with Long Beach MS4 adoption	Incorporate into LB MS4		Delayed	Adoption of LB MS4 delayed	12/1/12	
4	Los Cerritos Channel Metals (84)	Conduct Implementation (LA MS4)	With stormwater staff, develop MS4 permit language for this EPA TMDL, assist with Los Angeles MS4 adoption	Incorporate into LA MS4		Completed		7/1/12	11/1/12
4	Los Cerritos Channel Metals (84)	Conduct Implementation (LB MS4)	With stormwater staff, develop MS4 permit language for this EPA TMDL, assist with Long Beach MS4 adoption	Incorporate into LB MS4		Delayed	Adoption of LB MS4 delayed	12/1/12	
4	Machado Lake Nitrogens (76)	Conduct Implementation (LA MS4)		Incorporate into LA MS4		Completed		7/1/12	11/1/12
4	Machado Lake Toxics (73b)	Conduct Implementation (LA MS4)	With stormwater staff, develop MS4 permit language, assist with Los Angeles MS4 adoption	Incorporate into LA MS4		Completed		7/1/12	11/1/12
4	Machado Lake Trash (81)	Conduct Implementation		MFAC waiver		Completed		7/1/12	3/1/13

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4	Machado Lake Trash (81)	Conduct Implementation (LA MS4)		Incorporate into LA MS4		Completed		7/1/12	11/1/12
4	Malibu Creek Nutrients (50)	Conduct Implementation LA MS4		incorporate into LA MS4		Completed		7/1/12	11/1/12
4	Malibu Creek Watershed Trash (63)	Conduct Implementation		MFAC waiver		Completed		7/1/12	3/1/13
4	Malibu Creek Watershed Trash (63)	Conduct Implementation LA MS4		incorporate into LA MS4		Completed		7/1/12	11/1/12
4	Malibu Pathogens (47 in part)	Conduct Implementation LA MS4	With stormwater staff, develop MS4 permit language, assist with Los Angeles MS4 adoption	incorporate into LA MS4		Completed		7/1/12	11/1/12
4	Marina Del Rey Toxics (54)	Conduct Implementation (LA MS4)		Incorporate into LA MS4		Completed		7/1/12	11/1/12
4	Marina del Rey Pathogens (46)	Conduct Implementation (LA MS4)	With stormwater staff, develop MS4 permit language, assist with Los Angeles MS4 adoption	Incorporate into LA MS4		Completed		7/1/12	11/1/12
4	McGrath Lake Pesticides (25)	Litigation Support		Litigation Support		Completed		7/1/12	6/1/13
4	San Gabriel East Fork trash	Conduct Implementation		MFAC waiver		Completed		7/1/12	3/1/13
4	San Gabriel River Metals (39)	Conduct Implementation (LA MS4)	With stormwater staff, develop MS4 permit language for EPA TMDL, assist with Los Angeles MS4 adoption	Incorporate into LA MS4		Completed		7/1/12	11/1/12
4	San Gabriel River Metals (39)	Conduct Implementation (LB MS4)	With stormwater staff, develop MS4 permit language for this EPA TMDL, assist with Long Beach MS4 adoption	Incorporate into LB MS4		Delayed	LB MS4 adoption delayed	12/1/12	
4	Santa Clara River Chloride (31)	Conduct Implementation LA MS4	With stormwater staff, develop MS4 permit language, assist with Los Angeles MS4 adoption	incorporate into LA MS4		Completed		7/1/12	11/1/12
4	Santa Clara River Coliform (23b & 34)	Conduct Implementation LA MS4		incorporate into LA Ms4		Completed		7/1/12	11/1/12
4	Santa Clara River Nitrogen (32)	conduct implementation LA MS4		incorporate into LA Ms4		Completed		7/1/12	11/1/12
4	Santa Clara River Trash (36)	Conduct Implementation		MFAC waiver		Completed		7/1/12	3/1/13
4	Santa Clara River Trash (36)	Conduct Implementation LA MS4		incorporate into LA MS4		Completed		7/1/12	12/1/12

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4	Santa Monica Bay Beach Closures/Coliform/Bacteria Indicators (48)	Conduct Implementation LA MS4	With stormwater staff, develop MS4 permit language, assist with Los Angeles MS4 adoption	incorporate into LA MS4		Completed		7/1/12	11/1/12
4	Santa Monica Bay Historic Pesticides (58)	Conduct Implementation LA MS4	With stormwater staff, develop MS4 permit language for this EPA TMDL, assist with Los Angeles MS4 adoption	incorporate into LA MS4		Completed		7/1/12	11/1/12
4	Santa Monica Bay Offshore/Nearshore Debris (66)	Conduct Implementation		MFAC waiver		Completed		7/1/12	3/1/13
4	Santa Monica Bay Offshore/Nearshore Debris (66)	Conduct Implementation LA MS4	With stormwater staff, develop MS4 permit language, assist with Los Angeles MS4 adoption	incorporate into LA MS4		Completed		7/1/12	11/1/12
4	Ventura River Estuary Trash (91)	Conduct Implementation		MFAC waiver		Completed		7/1/12	3/1/13
5	Cache Creek, Bear Creek, and Harley Gulch Mercury TMDL Project	Conduct Implementation		Progress Report	Coordinate internally and with state and federal agencies on cleanup orders and remediation plans for inactive mines and the watershed. Review erosion control management plans and mine remediation plans. Coordinate with land managers, Caltrans, and stakeholders for implementation activities related to remediation projects in the upper and lower watersheds.	Completed	Staff has been working with mine-cleanup staff in the review of mine cleanup orders and other information for the areas downstream of the Abbott and Turkey Run mines. Included coordination of TMDL requirements and review of a remedial investigation workplan for Davis Creek and Cache Creek mercury-contaminated sediments, and review of activities in the	7/1/12	6/1/13
5	Clear Lake Mercury TMDL Project	Conduct Implementation		Progress Report	Coordinate internally and with state, federal, and local agencies on cleanup plans for inactive mines. Review erosion control management plans and mine remediation plans. Coordinate with county, land managers, Caltrans, and stakeholders for implementation activities related to mercury sources.	Completed	Staff worked with mine cleanup unit staff to provide technical assistance for reducing mercury sources in the watershed, including activities related to mercury mine cleanup projects at the superfund mine site.	7/1/12	6/1/13
5	Clear Lake Nutrient TMDL Project	Nutrient Cycling		Summary of Information	Staff will gather information to better understand the nutrient cycling within Clear Lake.	Completed	Nutrient cycling information was collected from journal articles and scientific workshops.	7/1/12	6/1/13
5	Clear Lake Nutrient TMDL Project	Project Management		Charter	Staff will develop a charter with a schedule for implementation activities	Completed	Charter completed in December	12/1/12	12/1/12
5	Clear Lake Nutrient TMDL Project	Stakeholder Outreach and Workshop		Agenda, Meeting materials	Staff will hold at least one public meeting at Lake County to engage stakeholders in TMDL process.	Completed	Stakeholder meeting held on February 7. Created handout with agenda. Meeting was well attended by local stakeholders.	7/1/12	6/1/13

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5	Clear Lake Nutrient TMDL Project	Tetra Tech Model		Model results	Staff will rerun Tetra Tech model to evaluate influence of BMP implementation on loads assigned by the TMDL.	Completed	Staff ran the TetraTech model to evaluate BMPs but could not duplicate previous model results.	7/1/12	6/1/13
5	Clear Lake Nutrient TMDL Project	Work with ILRP staff		Monitoring Plan and data	TMDL staff will work with the ILRP staff to ensure appropriate monitoring and BMP implementation is conduct to evaluate compliance with the TMDL.	Completed	Worked with ILRP staff to determine monitoring location suitability to determine nutrient loads from irrigated agriculture.	7/1/12	6/1/13
5	Delta Methylmercury TMDL Project	Conduct Implementation	Permit coordination	Progress Report	Continue to develop and implement transfer plans for TMDL implementation, to include requirements for: wastewater treatment plants, municipal stormwater, irrigated lands program, wetlands, water management activities, and dredging. Coordinate with all Regional Board programs to ensure TMDL/Basin Plan requirements are incorporated into NPDES permits, dredging permits, and water quality certifications. Review and comment on projects that may effect mercury levels and monitoring results.	Completed	TMDL staff works with permitting staff to ensure TMDL allocations and implementation plan requirements are included in permits. Work includes reviewing permit language and associated reports and fact sheets for multiple NPDES facility permits and large MS4s.	7/1/12	6/1/13
5	Delta Methylmercury TMDL Project	Conduct Implementation	Contract management	Progress Report	Develop and manage contracts for Delta implementation activities. Contract for non-point source methylmercury studies to develop and evaluate management practices to reduce methylmercury production and discharge to surface waters.	Completed	Staff completed a scope of work and contract package for Moss Landing Marine Labs for non-point source methylmercury studies to develop and evaluate management practices to reduce methylmercury production and discharge to surface waters. The contract was approval by State Board and DGS.	7/1/12	4/1/13

Reg.	Project Name	Task Name	Task Description	Deliverable Name	Deliverable Description	Status	Task Status Comment	Plan Start Date	Actual End Date
5	Delta Methylmercury TMDL Project	Conduct Implementation	Source Reduction	Progress Report	Evaluate mercury source reduction efforts and coordinate with other state, federal, local agencies and stakeholders for implementation planning and community outreach. Includes coordination with Local Area Stakeholder Group, Delta Tributaries Mercury Council, mercury offset program stakeholders, Sierra-Trinity Abandoned Mine Lands Agency Group, and DOC Abandoned Mine Lands program.	Completed	Staff has participated in and provided presentations and TMDL updates at DTMC and other agency stakeholder meetings that focus on mercury reduction projects.	7/1/12	6/1/13
5	Delta Methylmercury TMDL Project	Conduct Implementation	ERP	Progress Report	Exposure Reduction Program. Work with stakeholders to develop exposure reduction strategy and workplan. ERP strategy is due to Executive Officer by October 2012. Convene stakeholder groups to develop, fund, and implement the strategy. Work with CDPH and local agencies.	Completed	Staff worked with stakeholders to develop exposure reduction strategy. The Strategy was completed and submitted to the Executive Officer in October 2012. Staff is now working a small discharger workgroup to write the ERP workplan, 3rd party contract, and determine funding requirements. They have been meeting every several months, and will have the workplan completed by October 2013.	7/1/12	6/1/13
5	Delta Methylmercury TMDL Project	Conduct Implementation	Phase 1 studies	Progress Report	TMDL Phase 1: Work with stakeholders to develop the detailed implementation plan for the Delta TMDL. Tasks include meeting with stakeholders and providing technical guidance for methylmercury studies, initiating studies, and researching and applying funding opportunities, such as CAA..	Completed	Staff has had numerous meetings with individual dischargers and discharger groups to review their study concept proposals and workplans, and provide technical guidance for the methylmercury studies and coordinated study approaches.	7/1/12	6/1/13
5	Delta Methylmercury TMDL Project	Conduct Implementation	TAC coordination	Progress Report	Technical Advisory Committee- Coordinate discharger Phase 1 studies and TAC review. Convene TAC in fall to review individual discharger Phase 1 studies and on the spring to review the coordinated studies.	Completed	Staff coordinated and facilitated two meetings of the TAC. In September 2012, dischargers submitted methylmercury study concept proposals for TAC review and feedback. In June 2013, the TAC reconvened to review the final workplans and to provide comments and recommendations to address workplan gaps. Staff will be meetings with the study participants to review the TAC comments.	7/1/12	6/1/13

Reg.	Project Name	Task Name	Task Description	Deliverable Name	Deliverable Description	Status	Task Status Comment	Plan Start Date	Actual End Date
5	Diazinon and Chlorpyrifos TMDL Implementation	Implementation Coordination 12/13		Implementation Reports, Updated Implementation Logs, Guidance documents	Implementing 4 adopted diazinon and chlorpyrifos TMDLs. Assist NPDES and ILRP staff putting TMDL requirements into appropriate WDRs and Waivers, reviewing monitoring plans, reports and management plans from dischargers. Prepare transfer plan which outlines responsibilities and provides guidance documents for program staff.	Completed	Provided comments to ILRP staff on Sacramento Valley Ag Coalition TMDL report, and proposed additional TMDL monitoring sites for the Delta Ag Coalition. Provided comments to SWRCB stormwater staff on draft Phase 2 MS4 TMDL language. Provided comments to stormwater staff on Stockton MS4 ROWD Pesticide TMDL elements. Worked with NPS staff and EPA on the NPS Success Story for diazinon de-listings in the San Joaquin R. Prepared TMDL Progress Report for the San Joaquin R.	7/1/12	6/1/13
5	Sacramento and San Joaquin Pesticides Basin Plan Amendment and TMDLs (Phase 1)	Transfer Plans and Guidance		Transfer plan for regulatory staff	Prepare a transfer plan outlining responsibilities of TMDL and Regulatory Staff for implementing the diazinon and chlorpyrifos TMDLs.	Cancelled		3/1/13	
5	San Joaquin River Dissolved Oxygen	Data Collection and Analysis		Progress Report on activities	Participate in WARMF User Group meetings, attend quarterly meetings with contract manager, coordinate with Principal Investigator on data needs. Provide updates in the EO report.	Completed	Staff has participated in monthly WARMF meetings and coordinated with the Downstream Studies contract manager and Principal Investigator of the studies. Information on data collection and outreach was provided in EO reports and in a progress report.	7/1/12	6/1/13
5	San Joaquin River Dissolved Oxygen	Implementation Tracking - Aerator Operation		Progress Report	Staff will coordinate with the Port on aerator operations, track operational status from June - September and monitor DO conditions in the channel. Provide updates in the EO report and prepare a progress report.	Completed	Aerator operations in 2012 were tracked and DO conditions monitored in the channel. Updates were provided to management and a progress report prepared.	7/1/12	6/1/13
5	San Joaquin River Dissolved Oxygen	Reevaluate Water Quality Objective		Memo to Management	Reevaluate the 6.0 water quality objective. Coordinate with fisheries agencies and State Board on potential actions.	Completed	Management has been briefed on the coordination of activities with State Board concerning the reevaluation of the 6.0 mg/L water	7/1/12	6/1/13
5	San Joaquin River Dissolved Oxygen	Staff Report		Staff Report Sections	Staff will continue to update and develop sections in the Staff Report.	Completed	Staff continued to develop sections of the Staff Report. More revisions will be needed once the studies are completed and a Recommendations Report is written.	7/1/12	6/1/13

Reg.	Project Name	Task Name	Task Description	Deliverable Name	Deliverable Description	Status	Task Status Comment	Plan Start Date	Actual End Date
5	San Joaquin River Dissolved Oxygen	Stakeholder Outreach		Summary of Outreach	Communication outreach with internal and external stakeholders. Outreach may include meetings, phone calls and emails. Summary of outreach will be provided.	Completed	An outreach summary was completed.	7/1/12	6/1/13
5	San Joaquin River Dissolved Oxygen	Stakeholder Outreach		Regional Board website	Migrate SJR DO TMDL TWG website material to Regional Board website	Completed	Stakeholders opted to continue funding for the SJR DO TMDL TWG website rather than have the RB migrate information to the RB website. Port of Stockton is providing funding to maintain the SJR DO TMDL TWG website.	7/1/12	12/1/12
5	Stockton Area Sloughs and Rivers - Pathogens	Project Management		Charter	Staff will develop a charter with a schedule for implementation activities	Completed	Charter developed. Planning staff has met with regulatory staff to discuss TMDL.	7/1/12	9/1/12
5	Stockton Area Sloughs and Rivers - Pathogens	Review Pathogen Reports		Summary of Pathogen Data	Staff will review pathogen component of 08/09, 09/10 and 10/11 annual reports and associated pathogen data to evaluate compliance with TMDL.	Completed	Staff has reviewed the pathogen components of the annual report as well as the 2012 ROWD to evaluate compliance with the TMDL.	7/1/12	3/1/13
5	Stockton Area Sloughs and Rivers - Pathogens	Work with Storm Water staff on Permit Update		Permit Language Regarding Pathogen Work Plan	Storm water staff is expecting to receive the RWD for Stockton MS4 permit in June 2012 and will start working on the permit update in July. TMDL staff will work with the permit writer to develop appropriate language in the permit to reflect municipalities' current compliance with the TMDL.	Completed	We have worked with Stormwater staff to develop appropriate language in the draft MS4 permit to reflect the city's current compliance with the TMDL.	7/1/12	6/1/13
6	Heavenly Valley Creek (source to USFS boundary) Sediment	Implementation Analysis		Progress Report		Not Started	The progress report is delayed - training new staff in implementation.	11/1/12	
6	Indian Creek Reservoir Phosphorus	Implementation Analysis		Progress Report		Completed		7/1/12	4/1/13
6	Lake Tahoe Nutrients/Sediment	Crediting Program support services		training for permittees as needed		Completed		7/1/12	12/1/12
6	Lake Tahoe Nutrients/Sediment	Management System - crediting program		gather crediting documentation		Completed		4/1/13	5/1/13
6	Lake Tahoe Nutrients/Sediment	Management System - draft handbook		define non-urban protocols		Delayed	Completed in March 2013.(This task took longer than estimated because of increased interest in stakeholder input..)	8/1/12	3/1/13
6	Lake Tahoe Nutrients/Sediment	Management System - executive		provide executive direction on critical phases		Completed		7/1/12	6/1/13

Reg.	Project Name	Task Name	Task Description	Deliverable Name	Deliverable Description	Status	Task Status Comment	Plan Start Date	Actual End Date
6	Lake Tahoe Nutrients/Sediment	Management System - final handbook		estimate non-urban loads	Non-urban loads will not be estimated. Instead, stakeholders will track activities that produce loading.	Overdue	This task has changed. Non-urban loads will not be estimated. Instead, stakeholders will develop protocols for tracking activities (e.g., miles of unpaved roads) . Due December 2013.	1/1/13	
6	Lake Tahoe Nutrients/Sediment	Management System - governance structure		produce a governance structure		Completed		1/1/13	1/1/13
6	Lake Tahoe Nutrients/Sediment	Management System - review elements		approval memo for elements		Delayed	Completed in January 2013.	9/1/12	1/1/13
6	Lake Tahoe Nutrients/Sediment	Management System - science results		synthesize & evaluate results		Completed		4/1/13	1/1/13
6	Lake Tahoe Nutrients/Sediment	Management System - stakeholder review		conduct stakeholder review of non-urban protocols		Delayed	Delayed until September 2013. Input required from other stakeholders will not be submitted until summer 2013.	9/1/12	
6	Lake Tahoe Nutrients/Sediment	Monitoring and Evaluation Program		review annual report		Completed		2/1/13	1/1/13
6	Lake Tahoe Nutrients/Sediment	Public Outreach		editorials, presentations		Completed		7/1/12	6/1/13
6	Lake Tahoe Nutrients/Sediment	SNPLMA Round 12 project follow-up		review projects		Delayed	Completed in March 2013. (Was delayed to allow more time for stakeholder input.)	7/1/12	3/1/13
6	Lake Tahoe Nutrients/Sediment	TRPA Regional Plan update		provide Tahoe TMDL support to local regulations		Completed		7/1/12	12/1/12
6	Squaw Creek Sediment	Implementation Analysis		Progress Report		Completed		11/1/12	4/1/13
6	Truckee River Sediment	Implementation Analysis		Progress Report		Not Started	The progress report is delayed - training new staff in implementation.	1/1/13	
7	Alamo River Sediment TMDL Implementation	Implementation Analysis		Progress Report		Completed		3/1/13	5/1/13
7	Alamo River Sediment TMDL Implementation	TMDL Implementation Tracking and Monitoring	Monthly sediment monitoring for the Alamo River at a total of six locations. Water quality datasets for total suspended solids (TSS) and turbidity are being reviewed and will be available in the next	Tracking and Monitoring Data		Completed	Monthly sediment monitoring for the Alamo River at a total of six locations. Water quality datasets for total suspended solids (TSS) and turbidity are being reviewed and will be available in the next	7/1/12	3/1/13

Reg.	Project Name	Task Name	Task Description	Deliverable Name	Deliverable Description	Status	Task Status Comment	Plan Start Date	Actual End Date
7	Coachella Valley Storm Water Channel Pathogen TMDL	Implementation Analysis	Phase I of the TMDL requires that the responsible parties submit data to RB staff that characterize their contribution of the E. Coli bacteria to the CVSC, or develop E. Coli WQ monitoring programs and provide the results from the program to RB staff on a quarterly basis. Letters to 3 responsible parties were sent to request either data or a WQ monitoring program on October 2012.	Progress Report		Completed	Phase I of the TMDL requires that the responsible parties submit data to RB staff that characterize their contribution of the E. Coli bacteria to the CVSC, or develop E. Coli WQ monitoring programs and provide the results from the program to RB staff on a quarterly basis. Letters to 3 responsible parties were sent to request either data or a WQ monitoring program on October 2012.	3/1/13	5/1/13
7	Coachella Valley Storm Water Channel Pathogen TMDL	Implementation Analysis		Progress Report		Not Started		1/1/14	
7	Coachella Valley Storm Water Channel Pathogen TMDL	TMDL Implementation Tracking and Monitoring	Phase I of the TMDL requires that the responsible parties submit data to RB staff that characterize their contribution of the E. Coli bacteria to the CVSC, or develop E. Coli WQ monitoring programs and provide the results from the program to RB staff on a quarterly basis. Letters to 3 responsible parties were sent to request either data or a WQ monitoring program on October 2012.	Monitoring and Tracking Reports		Completed	Phase I of the TMDL requires that the responsible parties submit data to RB staff that characterize their contribution of the E. Coli bacteria to the CVSC, or develop E. Coli WQ monitoring programs and provide the results from the program to RB staff on a quarterly basis. Letters to 3 responsible parties were sent to request either data or a WQ monitoring program on October 2012.	7/1/12	3/1/13
7	Imperial Valley Drains Sediment TMDL Implementation	TMDL Implementation Tracking, Monitoring, and Reporting	Imperial Irrigation District monitors sediment for the agricultural drains that discharge directly to the Salton Sea quarterly. RB staff reviews the data quarterly. Water quality datasets for total suspended solids (TSS) and turbidity are being reviewed and will be available in the next report.	Progress Report		Completed	Imperial Irrigation District monitors sediment for the agricultural drains that discharge directly to the Salton Sea quarterly. RB staff reviews the data quarterly. Water quality datasets for total suspended solids (TSS) and turbidity are being reviewed and will be available in the next report.	7/1/12	6/1/13
7	New River Dissolved Oxygen, Pathogens, Sediment, and Trash TMDL Implementation	Implementation Analysis		Progress Reports		Completed		3/1/13	5/1/13

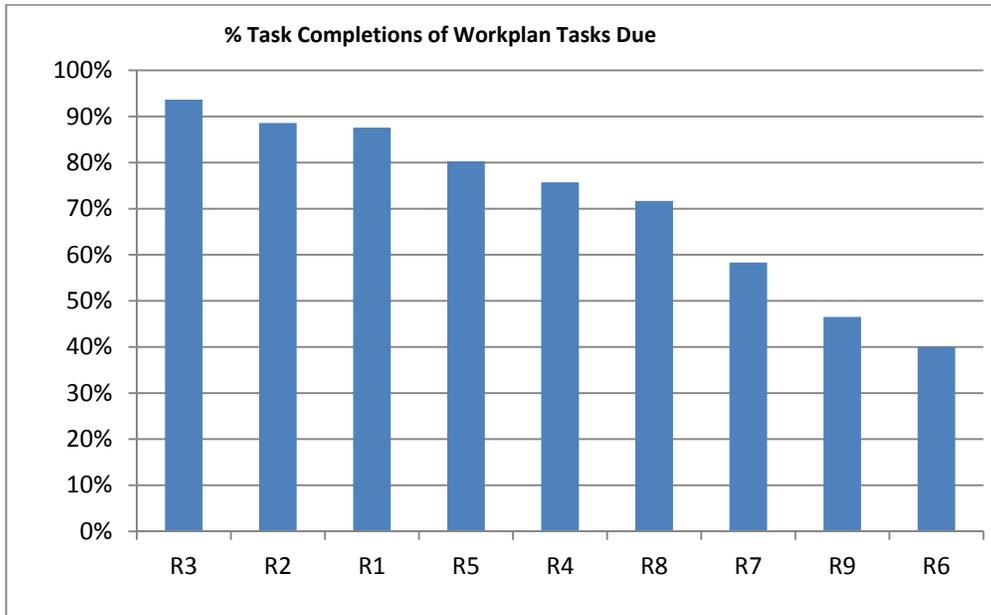
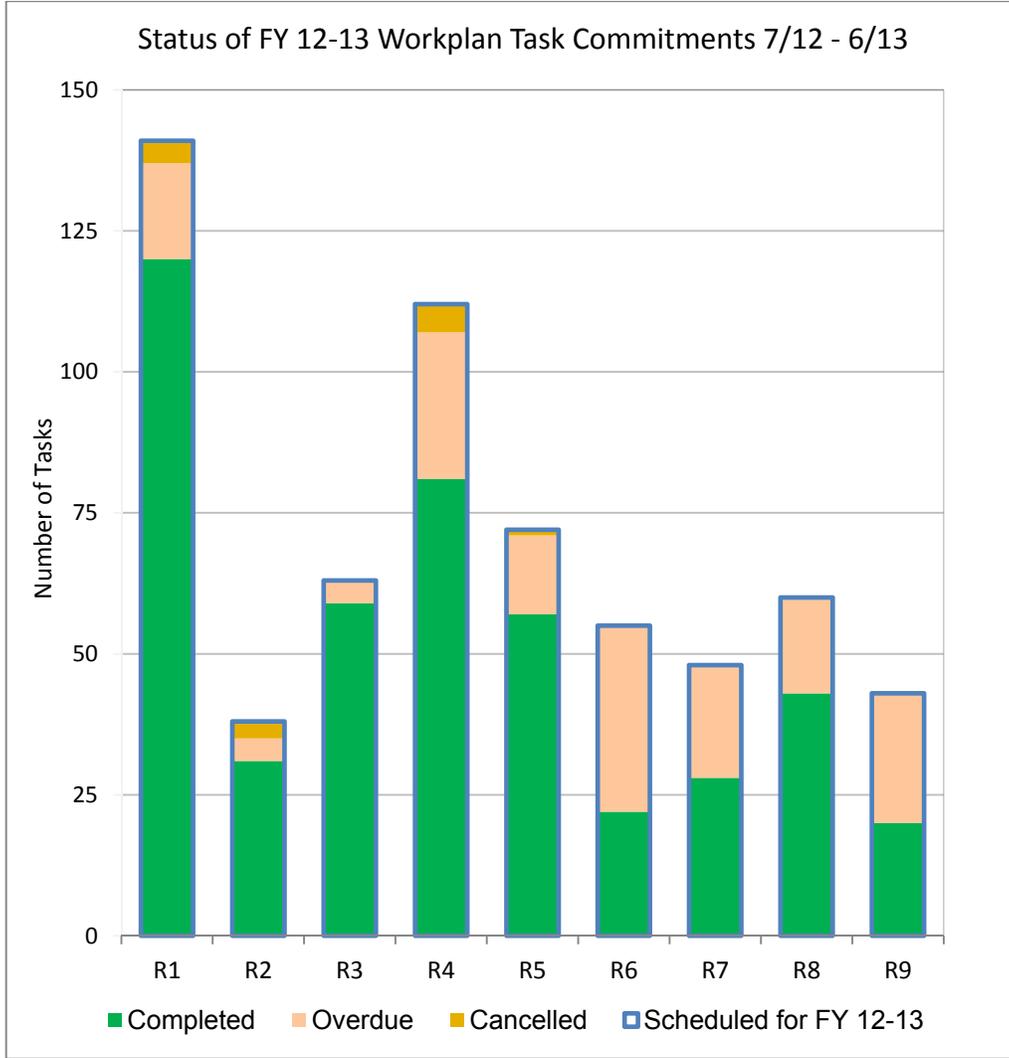
Reg.	Project Name	Task Name	Task Description	Deliverable Name	Deliverable Description	Status	Task Status Comment	Plan Start Date	Actual End Date
7	New River Dissolved Oxygen, Pathogens, Sediment, and Trash TMDL Implementation	New River International Boundary Monitoring	Monthly dissolved oxygen, pathogens and sediment monitoring for the New River at the International Border. Water quality datasets are being reviewed and will be available in the next report.	Monitoring Data		Completed	Monthly dissolved oxygen, pathogens and sediment monitoring for the New River at the International Border. Water quality datasets are being reviewed and will be available in the next report.	7/1/12	3/1/13
7	New River Dissolved Oxygen, Pathogens, Sediment, and Trash TMDL Implementation	TMDL Implementation Tracking and Monitoring	Monthly dissolved oxygen, pathogens and sediment monitoring for the New River at a total of four locations. Water quality datasets are being reviewed and will be available in the next report.	Monitoring and Tracking Data		Completed	Monthly dissolved oxygen, pathogens and sediment monitoring for the New River at a total of four locations. Water quality datasets are being reviewed and will be available in the next report.	7/1/12	3/1/13
8	Big Bear Lake Nutrient TMDL - FY 12-13	Conduct Implementation (TMDL Task 1 New WDRs)		New WDRs (if appropriate)	Continue to evaluate need to establish new WDRs for USFS or Resorts.	Completed		7/1/12	6/1/13
8	Big Bear Lake Nutrient TMDL - FY 12-13	Conduct Implementation (TMDL Task 4 Monit.)	annual monit report due 2/13. RB staff to review and provide comments if appropriate	Conduct Implementation (TMDL Task 4 Monit.)		Completed		7/1/12	4/1/13
8	Big Bear Lake Nutrient TMDL - FY 12-13	Conduct Implementation (TMDL Task 6 Lake Management Plan)		Conduct Implementation (TMDL Task 6 Lake Management Plan)	: RB staff coordination activities in FY 12-13 to finalize Lake Management Plan	Completed	RB staff continues to work with stakeholders to finalize management plan. Challenge remains with obtaining USFS cooperation.	7/1/12	6/1/13
8	Knickerbocker Cr., Bacteria TMDL	Standards Attained		Final Water Quality Report		Not Started		1/1/12	
8	Lake Elsinore Nutrient TMDL - FY 12-13	Ag Nutrient Management Plan (AgNMP) Approval		Regional Board approval of AgNMP		Delayed	RB approval action anticipated September 2013.	7/1/12	
8	Lake Elsinore Nutrient TMDL - FY 12-13	Compliance Monitoring (TMDL Task 4)		Annual Report Review		Completed		8/1/12	9/1/12
8	Lake Elsinore Nutrient TMDL - FY 12-13	Comprehensive Nutrient Reduction Plan (CNRP) Approval		Regional Board approval of Nutrient Reduction Plan (CNRP)	Approved CNRP	Delayed	RB approval action anticipated July 2013.	7/1/12	
8	Lake Elsinore Nutrient TMDL - FY 12-13	Conduct Implementation		TMDL Task 6 - On Site Disposal Systems Management Plan	Task continues to be carried over in workplan since development of final plan is dependent on the SB OWST Policy	Completed		7/1/12	6/1/13
8	Lake Elsinore Nutrient TMDL - FY 12-13	Conduct Implementation (Ag Waiver)		Develop WDRs for Ag Operators	Continue to assist NPS staff in development of Ag Waiver.	In Progress	RB NPS staff continue to work on developing Ag waiver.	7/1/12	
8	Lake Elsinore Nutrient TMDL - FY 12-13	Conduct Implementation (TMDL Task 7.3 Caltrans)		Review of Caltrans Regional Workplan		Overdue	RB staff is participating in Statewide Caltrans permit/TMDL meetings. Draft language for Elsinore TMDL for incorporation into Caltrans permit submitted Jan. 2013.	2/1/13	

Reg.	Project Name	Task Name	Task Description	Deliverable Name	Deliverable Description	Status	Task Status Comment	Plan Start Date	Actual End Date
8	Lake Elsinore Nutrient TMDL - FY 12-13	Outreach		Attend Stakeholder Meetings		Completed	on going effort	7/1/12	6/1/13
8	Lake Elsinore Nutrient TMDL - FY 12-13	Oversight of Ag Nutrient Management Plan (AgNMP) Approval	FY 12-13 Activities.	Provide Oversight	Meet with agric. representatives, review BMPs, etc.	Not Started	Task not started this FY since AgNMP approval will occur in FY 13-14.	4/1/13	
8	Lake Elsinore Nutrient TMDL - FY 12-13	Oversight of Comprehensive Nutrient Reduction Plan (CNRP)		Provide Oversight	FY 12-13 Activities	Not Started	Task not started this FY since CNRP approval will occur in FY 13-14.	1/1/13	
8	Lake Elsinore Watershed Nutrient TMDL	Comprehensive Nutrient Reduction Plan (CNRP)	Pursuant to MS4 permits, stakeholders to submit CNRP	Regional Board approval of Nutrient Reduction Plan (CNRP)	RB staff to provide comments on draft CNMP and coordinate with stakeholders on the finalization of the CNRP	Completed	RWQCB staff reviewed and provided comments on draft CNRP. Final CNRP due 6/12. RWQCB approval to occur FY 12-13.	1/1/12	6/1/12
8	Lake Elsinore Watershed Nutrient TMDL	Phase 2 Project Plans	Stakeholders to submit Phase 2 Plans for Regional Board approval	Approval of Phase 2 Project Plans		In Progress		7/1/11	
8	Newport Bay Watershed Diazinon/Chlorpyrifos TMDLs	Compliance Monitoring	Water quality data continues to be reviewed to establish potential for delisting.	Water Quality Data Review		Completed	Completed for this year.	7/1/12	6/1/13
8	Newport Bay Watershed Diazinon/Chlorpyrifos TMDLs	Implementation Review	The diazinon/chlorpyrifos TMDLs are being achieved; review of the TMDL is being conducted.	Analysis of Implementation Program		Completed	Annual review of data to determine whether TMDL is attained and WQS achieved.	7/1/12	6/1/13
8	Newport Bay Watershed Fecal Coliform TMDL	Implementation Analysis	Evaluation of monitoring data and reports to establish compliance with implementation program.	Review of TMDL Compliance	The TMDL implementation plan includes revision of specific tasks that are being conducted by both RB staff and stakeholders.	Completed	Compliance review completed for FY1203.	7/1/12	6/1/13
8	Newport Bay Watershed Nutrient TMDL	Compliance Monitoring	TMDL Regional Monitoring Program Update - timely reporting and data format	Water Quality Summary Report	Quarterly and annual nutrient monitoring reports from the County of Orange	Completed		6/1/06	12/1/12
8	Newport Bay Watershed Nutrient TMDL	Compliance Monitoring	Review and analysis of compliance data, plus review of other data sources.	Water Quality Summary Report	Quarterly and annual nutrient monitoring reports from the County of Orange	Completed		1/1/13	4/1/13
8	Newport Bay Watershed Nutrient TMDL	Coordination and Oversight	Routine TMDL tasks' oversight for compliance.	TMDL Program Activities	The TMDLs include nitrogen and phosphorus. Stakeholder responses to implementation differ per dissolved vs particulate states.	Completed	Review of TMDL tasks and products completed for FY2013.	7/1/12	6/1/13
8	Newport Bay Watershed Nutrient TMDL	Implementation Analysis	The TMDLs are being evaluated for revision, and all data sources will be reviewed and analyzed.	Data Analysis	Ongoing activity to collect and analyze data obtained from monitoring and investigation reports not required by TMDL., eg, permit monitoring.	Completed	This task was completed for FY2013.	7/1/12	6/1/13
8	Newport Bay Watershed Organochlorine Compounds TMDL	Data Management	Results from NB Trend Monitoring Program and other data.	Data Analysis	NB fish and clam tissue, sediment and water column monitoring results will be analyzed for TMDL and general compliance purposes.	Completed	Analysis of data ongoing; task completed for FY2013.	7/1/12	6/1/13

## Appendix 3

### Completion of FY 12-13 Workplan Tasks

## Workplan Task Completions



Completion of Workplan Tasks  
Overdue Tasks

Org.	Project Name	Task Name & Description	Deliverable Name & Description	Status	Task Status Comment	Plan Start Date	Actual Start Date	Plan End Date
1	Dissolved Oxygen Objective Basin Plan Amendment	Peer Review	(1) Request for Peer Review, (2) Submittal to reviewers of the draft documents	Delayed	Staff redirected to manage Basin Planning Unit (RMF 03/29/2013).	4/1/13		6/30/13
1	Dissolved Oxygen Objective Basin Plan Amendment	Staff Report & Basin Plan Amendment - Staff Draft	(1) Staff Draft of the Staff Report and Basin Plan Amendment Lanaguage	Delayed	Staff redirected to manage Basin Planning Unit (RMF 03/29/2013).	7/1/12	7/1/12	3/31/13
1	Eel River, Middle Fk, Wilderness & Black Butte HSAs Temperature	Single Action Submittal to EPA	(1) Single Permitting Action	Delayed	Direction change per counsel's advice to change public process. Action will now be taken through Basin Plan Amendment process for the Eel River Temperature TMDL Action Plan, which is to be considered by Regional Board in November 2013. (DME 06/28/2013)	1/1/13	12/1/12	6/30/13
1	Eel River, North Fk, Upper North Fork Watershed Temperature	Single Action Submittal to EPA	(1) Single Permitting Action	Delayed	Direction change per counsel's advice to change public process. Action will now be taken through Basin Plan Amendment process for the Eel River Temperature TMDL Action Plan, which is to be considered by Regional Board in November 2013. (DME 06/28/2013)	1/1/13	12/1/12	6/30/13
1	Elk River Sediment	Technical TMDL Public Comments	(1) Public Comments on the Technical Sediment TMDL	Delayed	Direction change to single action adoption of TMDL (RMF 06/28/2013).	10/1/12		4/30/13
1	Garcia River Sediment	Regional Wide Sediment Monitoring	(1) Water Samples	Delayed	Over ambitious planning of available monitoring resources (RMF 6/24/2013).	7/1/12		6/30/13
1	Laguna de Santa Rosa Nutrients, DO, Temperature, & Sediment - with OWTS	Nutrient & DO Linkage Analysis & Targets - Staff Draft	(1) Staff Draft of the Staff Report and Basin Plan Amendment Language	Overdue	Over ambitious planning as staff resources expended on additional analysis of seasonality and early implementation efforts (RMF 06/28/2013)	7/1/12	7/1/12	12/31/12
1	Laguna de Santa Rosa Nutrients, DO, Temperature, & Sediment - with OWTS	Nutrient & DO Load Allocations - Staff Draft	(1) Staff Draft of the Staff Report and Basin Plan Amendment Lanaguage	Overdue	Over ambitious planning as staff resources expended on additional analysis of seasonality and early implementation efforts (RMF 06/28/2013)	7/1/12	7/1/12	12/31/12
1	Laguna de Santa Rosa Nutrients, DO, Temperature, & Sediment - with OWTS	Nutrient & DO Margin of Safety - Staff Draft	(1) Staff Draft of the Staff Report and Basin Plan Amendment Lanaguage	Overdue	Over ambitious planning as staff resources expended on additional analysis of seasonality and early implementation efforts (RMF 06/28/2013)	7/1/12	7/1/12	12/31/12
1	Laguna de Santa Rosa Nutrients, DO, Temperature, & Sediment - with OWTS	Problem Statement - Staff Draft	(1) Staff Draft of the Problem Statement Staff Report Chapter & Basin Plan Language	Overdue	Over ambitious planning as staff resources expended on additional analysis of seasonality and early implementation efforts (RMF 06/28/2013)	7/1/12	7/1/12	12/31/12
1	Laguna de Santa Rosa Nutrients, DO, Temperature, & Sediment - with OWTS	Temperature Linkage Analysis & Targets - Staff Draft	(1) Staff Draft of the Staff Report and Basin Plan Amendment Lanaguage	Overdue	Over ambitious planning as staff resources expended on additional analysis of seasonality and early implementation efforts (RMF 06/28/2013)	9/1/12	11/1/12	4/30/13
1	Laguna de Santa Rosa Nutrients, DO, Temperature, & Sediment - with OWTS	Temperature Load Allocations - Staff Draft	(1) Staff Draft of the Staff Report and Basin Plan Amendment Lanaguage	Overdue	Over ambitious planning as staff resources expended on additional analysis of seasonality and early implementation efforts (RMF 06/28/2013)	9/1/12	11/1/12	4/30/13
1	Laguna de Santa Rosa Nutrients, DO, Temperature, & Sediment - with OWTS	Temperature Margin of Safety - Staff Draft	(1) Staff Draft of the Staff Report and Basin Plan Amendment Lanaguage	Overdue	Over ambitious planning as staff resources expended on additional analysis of seasonality and early implementation efforts (RMF 06/28/2013)	9/1/12	11/1/12	4/30/13
1	Laguna de Santa Rosa Nutrients, DO, Temperature, & Sediment - with OWTS	Temperature Source Analysis - Staff Draft	(1) Staff Draft of the Staff Report and Basin Plan Amendment Lanaguage	Overdue	Over ambitious planning as staff resources expended on additional analysis of seasonality and early implementation efforts (RMF 06/28/2013)	7/1/12	7/1/12	4/30/13
1	Russian River Pathogens - with OWTS	Monitoring Report of 2011/12 Phylochp Data	(1) Monitoring Report	Delayed	Earlier dependent deliverable (i.e., lab data results) not received (RMF 06/28/2013).	7/1/12	7/1/12	6/30/13
1	Russian River Pathogens - with OWTS	Stakeholder Strategy	(1) Stakeholder Strategy	Delayed	Staff redirected to Santa Rosa's NPDES Permit (RMF 12/26/2012).	7/1/12	7/1/12	12/31/12
1	Temperature Implementation Policy	Staff Report & Basin Plan Amendment - Public Review Draft	(1) Public Review Draft of the Staff Report and Basin Plan Amendment Lanaguage	Delayed	Over ambitious planning. Public review draft scheduled for release by September 2013. (RMF 06/28/2013)	12/1/12		6/30/13

Completion of Workplan Tasks  
Overdue Tasks

Org.	Project Name	Task Name & Description	Deliverable Name & Description	Status	Task Status Comment	Plan Start Date	Actual Start Date	Plan End Date
2	303(d) List	Integrated Report Preparation	Regional Board Approval of Recommendations	Not Started		7/1/12		6/30/13
2	Lagunitas Creek Sediment	Prepare Final Project Report	Final Project Report	Delayed		8/1/12		12/31/12
2	Lagunitas Creek Sediment	Prepare Response to Comments	Response to Public Comments	Delayed		10/1/12		2/28/13
2	Lagunitas Creek Sediment	Public Review draft	Public review draft	Delayed		7/1/12	7/1/12	2/28/13
2	Statewide Reservoir Mercury TMDL	Coordinate peer review	Written response to peer review comments	Delayed	This task is dependent on completion of the draft staff report and has not been started. This task will be started when the draft technical report is ready for peer review	7/1/12		5/31/13
2	Statewide Reservoir Mercury TMDL	Draft and revise technical report	Revised draft technical report	Delayed	Task not completed due to uncontrollable factors: direction change from management and staff shortages. Substantial progress was made on the report, including a complex technical analyses of fish data and completing an assessment of sources upstream of the 74 reservoirs. A conceptual model of mercury cycling in reservoirs and statistical analysis for linkage has been sent to an external statistical consultant, and the water chemistry analysis was reviewed by a technical	7/1/12	7/1/12	6/30/13
3	Arroyo de la Cruz FIB TMDL	Define Project	Project Definition	Not Started		4/25/13		4/25/13
3	Bell Creek Nitrate TMDL	Define Project	Project Definition	Not Started		6/11/13		6/11/13
3	Jalama Creek Sodium and Chloride TMDL	Define Project	Project Definition	Not Started		6/11/13		6/11/13
3	Pajaro River Watershed Nutrient TMDL	Develop Monitoring Plan	Monitoring Plan	Not Started	Over ambitious planning. Could not complete task.	12/1/12		3/31/13
3	Program and Project Management	Ambient Monitoring TMDLs	Monitoring plans, 303d list data	Not Started		7/1/12		6/30/13
3	Program and Project Management	TMDL Impl Mngt: Ag Order	Implementation Management	Not Started		7/1/12		6/30/13
3	San Antonio River FIB TMDL	Define Project	Project Definition	Not Started		4/25/13		4/25/13
3	San Lorenzo Creek FIB TMDL	Define Project	Project Definition	Not Started		4/25/13		4/25/13
3	San Lorenzo River Sediment	Manage Grant	Progress Report	Not Started		7/1/12		6/30/13
3	Santa Maria River Watershed TMDL	Present Regulatory Action to Regional Board for Action	Regional Board Action Pesticide TMDLs: bring TMDL for approval by BPA	Delayed	Direction change. Public comments necessitated more staff work; rescheduled for next fiscal year.	3/1/13		3/31/13
3	Santa Maria River Watershed TMDL	Project Analyses	Draft Report Draft report summarizing salt balance in the watershed	Not Started	Overdue: overambitious planning and another delayed task took more time due to public comments. Task will be completed next fiscal year.	7/1/12		5/31/13
3	Santa Maria River Watershed TMDL	Submit Administrative Record	Administrative Record Pesticide TMDLs: Electronic Admin Record	Delayed	Direction change. Public comments necessitated more staff work; task rescheduled for next fiscal year.	4/1/13		4/30/13
3	Tularcitos Creek FIB TMDL	Define Project	Project Definition	Not Started		4/25/13		4/25/13
4	Avalon Beach Bacteria Indicators (nonCD)	EPA approval	EPA Approval	Not Started		4/1/13	4/1/13	6/30/13
4	Ballona Creek Coliform (49)	OAL Approval	OAL Approval	Not Started		1/1/13		3/31/13
4	Ballona Creek Coliform (49)	SB submit Admin. Rec. to EPA	EPA Approval	Not Started		3/1/13		4/30/13
4	Ballona Creek Metals (57)	Develop Regulatory Recommendation	Draft Basin Plan Amendment	Not Started		10/1/12		1/31/13
4	Ballona Creek Metals (57)	Present Regulatory Action to Regional Board for Action	Regional Board Action	Not Started		1/1/13		4/30/13
4	Ballona Creek Toxics (55)	Develop Regulatory Recommendation	Draft Basin Plan Amendment	Not Started		10/1/12		1/31/13
4	Ballona Creek Toxics (55)	Present Regulatory Action to Regional Board for Action	Regional Board Action	Not Started		1/1/13		4/30/13
4	Colorado Lagoon Pesticides, PAH's, PCB, Metals etc TMDL (82 & 83)	Conduct Implementation (LB MS4)	Incorporate into LB MS4	Delayed	Adoption of LB MS4 delayed	12/1/12		6/30/13
4	Dominguez, LA/LB Harbors, San Pedro Bay Metals (75 & 78), toxics(73a) and PAHs (74)	Conduct Implementation (LB MS4) With stormwater staff, develop MS4 permit language, assist with Long Beach MS4 adoption	Incorporate into LB MS4	Delayed	Adoption of LB MS4 Delayed	12/1/12		6/30/13

Completion of Workplan Tasks  
Overdue Tasks

Org.	Project Name	Task Name & Description	Deliverable Name & Description	Status	Task Status Comment	Plan Start Date	Actual Start Date	Plan End Date
4	Long Beach City Beach Indicator Bacteria	Conduct Implementation (LB MS4) With stormwater staff, develop MS4 permit language for this EPA TMDL, assist with Long Beach MS4 adoption	Incorporate into LB MS4	Delayed	Adoption of LB MS4 delayed	12/1/12		6/30/13
4	Los Angeles Harbor Beaches - Beach Closures (72)	OAL Approval	OAL Approval	Not Started		1/1/13		3/31/13
4	Los Angeles Harbor Beaches - Beach Closures (72)	SB submit Admin. Rec. to EPA	EPA Approval	Not Started		3/1/13		4/30/13
4	Los Angeles River Metals (13)	Conduct Implementation (LB MS4) With stormwater staff, develop MS4 permit language, assist with Long Beach MS4 adoption	Incorporate into LB MS4	Delayed	Adoption of LB MS4 delayed	12/1/12		6/30/13
4	Los Angeles River Nitrogen (11)	Conduct Implementation (LB MS4) With stormwater staff, develop MS4 permit language, assist with Long Beach MS4 adoption	Incorporate into LB MS4	Delayed	Adoption of LB MS4 delayed	12/1/12		6/30/13
4	Los Angeles River Pathogens (15)	Conduct Implementation (LB MS4) With stormwater staff, develop MS4 permit language, assist with Long Beach MS4 adoption	Incorporate into LB MS4	Delayed	Adoption of LB MS4 delayed	12/1/12		6/30/13
4	Los Angeles River Trash (12)	Conduct Implementation (LB MS4) With stormwater staff, develop MS4 permit language, assist with Long Beach MS4 adoption	Incorporate into LB MS4	Delayed	Adoption of LB MS4 delayed	12/1/12		6/30/13
4	Los Cerritos Channel Metals (84)	Conduct Implementation (LB MS4) With stormwater staff, develop MS4 permit language for this EPA TMDL, assist with Long Beach MS4 adoption	Incorporate into LB MS4	Delayed	Adoption of LB MS4 delayed	12/1/12		6/30/13
4	Los Cerritos Channel Metals (84)	SB submit Admin. Rec. to OAL	OAL Approval	Delayed	RB did not adopt until 06/13	3/1/13		6/30/13
4	Los Cerritos Channel Metals (84)	State Board Consideration	State Board Action	Delayed	RB did not adopt until 06/13	1/1/13		3/31/13
4	Los Cerritos Channel Metals (84)	Submit Administrative Record	Administrative Record	Delayed	RB did not adopt until 06/13	6/1/13		6/30/13
4	Malibu Pathogens (47 in part)	OAL Approval	OAL Approval	Delayed	SB did not approve until 03/13	1/1/13		3/31/13
4	Malibu Pathogens (47 in part)	SB submit Admin. Rec. to EPA	EPA Approval	Delayed	SB did not approve until 03/13	3/1/13		4/30/13
4	Marina Del Rey Toxics (54)	Develop Regulatory Recommendation	Draft Basin Plan Amendment	Delayed	more data obtained in late 2013	10/1/12		1/31/13
4	Marina Del Rey Toxics (54)	Prepare Final Project Report	Final Project Report	Delayed	more data obtained in late 2013	10/1/12		2/28/13
4	Marina Del Rey Toxics (54)	Present Regulatory Action to Regional Board for Action	Regional Board Action	Delayed		1/1/13		4/30/13
4	Marina del Rey Pathogens (46)	OAL Approval	OAL Approval	Not Started		1/1/13		3/31/13
4	Marina del Rey Pathogens (46)	SB submit Admin. Rec. to EPA	EPA Approval	Not Started		3/1/13		4/30/13
4	Program Management	Program Management	Program Management	Not Started		7/1/09		6/30/13
4	Project Management	Contract Management	Contract Management	Not Started		7/1/09		6/30/13
4	Project Management	General Project Management	Track project progression, maintain and update Planner/Track, clerical, student & admin support	Not Started		7/1/09		6/30/13
4	San Gabriel River Metals (39)	Conduct Implementation (LB MS4) With stormwater staff, develop MS4 permit language for this EPA TMDL, assist with Long Beach MS4 adoption	Incorporate into LB MS4	Delayed	LB MS4 adoption delayed	12/1/12		6/30/13
4	San Gabriel River Metals (39)	SB submit Admin. Rec. to OAL	OAL Approval	Delayed	RB did not approve until 06/13	3/1/13		6/30/13
4	San Gabriel River Metals (39)	State Board Consideration	State Board Action	Delayed	RB did not approve until 06/13	1/1/13		3/31/13
4	San Gabriel River Metals (39)	Submit Administrative Record	Administrative Record	Delayed		12/1/12		1/31/13
4	Santa Monica Bay Beach Closures/Coliform/Bacteria Indicators (48)	OAL Approval	OAL Approval	Not Started		1/1/13		3/31/13
4	Santa Monica Bay Beach Closures/Coliform/Bacteria Indicators (48)	SB submit Admin. Rec. to EPA	EPA Approval	Not Started		3/1/13		4/30/13

Completion of Workplan Tasks  
Overdue Tasks

Org.	Project Name	Task Name & Description	Deliverable Name & Description	Status	Task Status Comment	Plan Start Date	Actual Start Date	Plan End Date
5	2012 303d list update	Decision Fact Sheets	Summary of Decision Fact Sheets Development Effort Develop new and update existing Decision Fact Sheets for Central Valley waterbodies based on new and old LOEs (ability to complete this task is contingent on State Board developing LOEs by March 2012 in accordance with latest schedule)	Delayed	This effort will likely be delayed due to delays in LOE development. PYs decreased at mid-year and shifted to other TMDL projects (Clear Lake Nutrients and Statewide Hg). The ability to complete this task is dependent on completion of the LOEs, which was delayed,	5/1/13		6/30/13
5	2012 303d list update	Integrated report preparation and internal review	Draft Intergrated Report Prepare draft integrated report for internal review (ability to complete this task is contingent on State Board developing LOEs by March 2012 in accordance with latest schedule)	Delayed	We are not on track to start this task during the current fiscal year. LOE development has been delayed because of program staff changes. PYs decreased at mid-year and shifted to other TMDL projects (Clear Lake Nutrients and Statewide Hg).	3/1/13		6/30/13
5	Statewide Mercury Reservoir TMDL Project	Develop CEQA Document	SED (substitute environmental documentation) CEQA Evaluation: Prepare draft California Environmental Quality Act evaluation in coordination with the State Board staff working on the Statewide Mercury Fish Tissue Objective to avoid redundancy.	Delayed	This task is dependent on completion of the draft staff report and has not been started. This task will be started once the draft technical report is complete and submitted for peer and public review.	11/1/12		6/30/13
5	Statewide Mercury Reservoir TMDL Project	Peer Review	Peer Review Request Submitted to State Board Peer Review: Coordinate scientific peer review committee, prepare submittal package, and respond to peer reviewer questions during their review period.	Delayed	This task is dependent on completion of the draft staff report and has not been started. This task will be started when the draft technical report is ready for peer review.	10/1/12		4/30/13
5	Statewide Mercury Reservoir TMDL Project	Peer Review	Peer review comments received from Peer Reviewer(s) Response to Scientific Peer Review: Prepare written responses to scientific peer review for the administrative record. Coordinate response review with TMDL staff at other Water Boards as needed.	Delayed	This task is dependent on completion of the draft staff report and has not been started. This task will be started after peer review of the initial draft technical report.	3/1/13		6/30/13
5	Statewide Mercury Reservoir TMDL Project	Project Analyses Draft report	Draft Technical Report: In coordination with TMDL staff from other Regional Boards, prepare draft technical staff report for scientific peer review, including review cycles with the technical editor contracted through a State Board contract.	Delayed	Task not completed due to uncontrollable factors: direction change from management and staff shortages. Substantial progress was made on the report, including a complex technical analyses of fish data and completing an assessment of sources upstream of the 74 reservoirs. A conceptual model of mercury cycling in reservoirs and statistical analysis for linkage has been sent to an external statistical consultant, and the water chemistry analysis was reviewed by a technical	7/1/12	7/1/12	1/31/13
5	Statewide Mercury Reservoir TMDL Project	Project Analyses Economics	Draft Economics analysis Economic Evaluation: Prepare draft economic evaluation in coordination with the State Board staff working on the Statewide Mercury Fish Tissue Objective to avoid redundancy.	Delayed	This task is dependent on completion of the draft staff report and has not been started. This task will be started once the draft technical report is complete and submitted for peer and public review.	11/1/12		6/30/13
5	Statewide Mercury Reservoir TMDL Project	Revised TMDL Report	Revised TMDL Report Revise Draft Technical Report: Revise technical report as necessary based on comments from the scientific peer reviewers. Coordinate review of report revisions with TMDL staff at other Water Boards as needed.	Delayed	This task is dependent on completion of the draft staff report and has not been started. This task will be started after peer review of the initial draft technical report.	3/1/13		6/30/13

Completion of Workplan Tasks  
Overdue Tasks

Org.	Project Name	Task Name & Description	Deliverable Name & Description	Status	Task Status Comment	Plan Start Date	Actual Start Date	Plan End Date
5	Stockton Area Sloughs and Rivers - Dissolved Oxygen	Present Regulatory Action to Regional Board for Action	Regional Board Action A board resolution will be prepared along with a response to comments and presentation materials	Not Started		1/1/13		5/31/13
6	13/14 303(d) list work (Integrated Report)	IR - internal review of recommendations	recommendations to R6 Board	Delayed	Delayed until R6 staff receive recommendations from State Board staff.	11/1/12	11/1/12	5/31/13
6	13/14 303(d) list work (Integrated Report)	Statewide Natural Sources exclusion	internal & USEPA correspondence	Delayed	Completion delayed until FY 13-14. Staff has been reviewing natural sources contributions to impairments on a watershed-specific basis.	7/1/12	9/1/12	5/31/13
6	Blackwood Creek - nitrogen	Define Project	Project Definition	Delayed	In progress. Evaluating efficacy of Blackwood stream restoration.	8/1/12	8/1/12	3/31/13
6	Blackwood Creek - phosphorus	Define Project	Project Definition	Delayed	In progress. Evaluating efficacy of Blackwood stream restoration.	8/1/12	8/1/12	3/31/13
6	Bodie Creek	Prepare Final Project Report	Final Project Report	Delayed	Impairments may be addressed by soil stabilization or soil removal activities by State Parks.	9/1/12	10/1/12	5/31/13
6	Cold Creek - nitrogen	Define Project	Project Definition	Overdue		8/1/12	8/1/12	3/31/13
6	Donner Lake PCBs	Collect and Analyze Data	Data Analysis Report	Delayed	Fish tissue sampling completed.	1/1/13	8/1/05	5/31/13
6	Donner Lake PCBs	Define Project	Project Definition	Delayed	Resources given to higher priority TMDLs	9/1/12	10/1/12	1/31/13
6	Eagle Lake nitrogen & phosphorus	Develop Project Plan	Project Plan	Delayed	Delayed until problem hypothesis was completed. Hypothesis is complete - plan is in progress.	11/1/12		2/28/13
6	East Walker River (above Bridgeport Res.)	Define Project	Project Definition	Delayed	More stakeholder involvement needed to define the project.	7/1/11	7/1/11	3/31/13
6	General Creek - phosphorus	Define Project	Project Definition	Overdue	In progress as part of "Tahoe trib" project.	8/1/12	8/1/12	3/31/13
6	Grazing Pathogen Source Project	Evaluate & report on sampling	progress report	Overdue	In progress - draft is complete and is undergoing internal review.	9/1/12	11/1/12	4/30/13
6	Heavenly Valley Creek (USFS boundary to Trout Creek) - sediment	Define Project	Project Definition	Overdue	In progress as part of "Tahoe trib" project.	8/1/12	8/1/12	3/31/13
6	Heavenly Valley Creek (source to USFS boundary) - phosphorus	Define Project	Project Definition	Overdue	In progress as part of "Tahoe trib" project.	8/1/12	8/1/12	3/31/13
6	Heavenly Valley Creek (source to USFS boundary) Sediment	Implementation Analysis	Progress Report	Not Started	The progress report is delayed - training new staff in implementation.	11/1/12		3/31/13
6	Lake Tahoe Nutrients/Sediment	Management System - final handbook	estimate non-urban loads Non-urban loads will not be estimated. Instead, stakeholders will track activities that produce loading.	Overdue	This task has changed. Non-urban loads will not be estimated. Instead, stakeholders will develop protocols for tracking activities (e.g., miles of unpaved roads) . Due December 2013.	1/1/13	11/1/12	3/31/13
6	Lake Tahoe Nutrients/Sediment	Management System - stakeholder review	conduct stakeholder review of non-urban protocols	Delayed	Delayed until September 2013. Input required from other stakeholders will not be submitted until summer 2013.	9/1/12		12/31/12
6	Susan River toxicity	Conduct watershed assessment	Assessment report	Not Started	Staff performed assessment of mercury impairment instead of toxicity because the USFS presented opportunity to sample Susan River mercury in fish tissue	7/1/12		4/30/13
6	Susan River toxicity	Stakeholder outreach	Public Mtg.	Delayed	Delayed due to higher priority TMDL efforts (may be dropped from this year's effort due to 0.8 PY Program cut-back)	8/1/12		2/28/13
6	Trout Creek (above Hwy 50) - nitrogen	Define Project	Project Definition	Overdue	In progress as part of "Tahoe trib" project.	8/1/12	8/1/12	3/31/13
6	Trout Creek (above Hwy 50) - phosphorus	Define Project	Project Definition	Overdue	In progress as part of "Tahoe trib" project.	8/1/12	8/1/12	3/31/13
6	Trout Creek (below Hwy 50) - nitrogen	Define Project	Project Definition	Overdue	In progress as part of "Tahoe trib" project.	8/1/12	8/1/12	3/31/13
6	Trout Creek (below Hwy 50) - phosphorus	Define Project	Project Definition	Overdue	In progress as part of "Tahoe trib" project.	8/1/12	8/1/12	3/31/13
6	Truckee River Sediment	Implementation Analysis	Progress Report	Not Started	The progress report is delayed - training new staff in implementation.	1/1/13		5/31/13
6	Truckee River, Upper (above Christmas Valley) - phosphorus	Define Project	Project Definition	Overdue	Delayed until April 2013.	8/1/12	8/1/12	3/31/13
6	Truckee River, Upper (below Christmas Valley) - phosphorus	Define Project	Project Definition	Overdue	Delayed until April 2013.	8/1/12	8/1/12	3/31/13
6	Ward Creek - nitrogen	Define Project	Project Definition	Overdue	In progress as part of "Tahoe trib" project.	8/1/12	8/1/12	3/31/13
6	Ward Creek - phosphorus	Define Project	Project Definition	Overdue	In progress as part of "Tahoe trib" project.	8/1/12	8/1/12	3/31/13

Completion of Workplan Tasks  
Overdue Tasks

Org.	Project Name	Task Name & Description	Deliverable Name & Description	Status	Task Status Comment	Plan Start Date	Actual Start Date	Plan End Date
6	Ward Creek - sediment	Define Project	Project Definition	Overdue	In progress as part of "Tahoe trib" project.	8/1/12	8/1/12	3/31/13
7	303(d) List	Assist SB and EPA in Approval Process	Assist SB and EPA in Approval Process	Delayed	SB database was not available to complete the task.	1/1/13		6/30/13
7	303(d) List	Present the 303(d) List to the RB for Action	Regional Board Action	Delayed	SB database was not available to complete the task.	7/1/12		11/30/12
7	Alamo River Chlordane, Chlorpyrifos, DDT, Diazinon, Dieldrin, PCBs & Toxaphene 4B or 4C	Assist OAL and EPA in Approval Process	OAL and EPA Approvals	Not Started		4/1/13		6/30/13
7	Alamo River Chlordane, Chlorpyrifos, DDT, Diazinon, Dieldrin, PCBs & Toxaphene 4B or 4C	Present Regulatory Action to Regional Board for Action	Regional Board Action	Not Started	Regulatory action will be presented to SB for action in January 2014.	10/1/12		1/31/13
7	Alamo River Chlordane, Chlorpyrifos, DDT, Diazinon, Dieldrin, PCBs & Toxaphene 4B or 4C	Present the Adopted Amendment to SB for approval	SB Approval	Not Started		3/1/13		4/30/13
7	Alamo River Chlordane, Chlorpyrifos, DDT, Diazinon, Dieldrin, PCBs & Toxaphene 4B or 4C	Submit Administrative Record	Administrative Record	Not Started		1/1/13		3/31/13
7	Coachella Valley Storm Water Channel (CVSC) DDT, Dieldrin, PCBs, and Toxaphene Monitoring & Assessment	Project Analysis	Project Analysis report	Not Started	SWAMP has not released the data yet.	3/1/13		5/31/13
7	Coachella Valley Storm Water Channel Pathogen TMDL	Implementation Analysis	Progress Report	Not Started		1/1/14		5/31/13
7	Imperial Valley Drains Chlordane, DDT, Dieldrin, PCBs, & Toxaphene 4B or 4C	Assist OAL and EPA in Approval Process	OAL and EPA Approvals	Not Started		3/1/13		6/30/13
7	Imperial Valley Drains Chlordane, DDT, Dieldrin, PCBs, & Toxaphene 4B or 4C	Present Adopted Amendment to SB for Approval	SB Approval	Not Started		2/1/13		3/31/13
7	Imperial Valley Drains Chlordane, DDT, Dieldrin, PCBs, & Toxaphene 4B or 4C	Present Regulatory Action to Regional Board for Action	Regional Board Action	Not Started	Regulatory action will be presented to SB for action in January 2014.	11/1/12		1/31/13
7	Imperial Valley Drains Chlordane, DDT, Dieldrin, PCBs, & Toxaphene 4B or 4C	Submit Administrative Record	Administrative Record	Not Started		1/1/13		2/28/13
7	New River Chlordane, Chlorpyrifos, DDT, Diazinon, Dieldrin, PCBs, & Toxaphene 4B, or 4C	Assist OAL and EPA in Approval Process	OAL and EPA Approvals	Not Started		3/1/13		6/30/13
7	New River Chlordane, Chlorpyrifos, DDT, Diazinon, Dieldrin, PCBs, & Toxaphene 4B, or 4C	Present Adopted Amendment to SB for Approval	SB Approval	Not Started		2/1/13		3/31/13
7	New River Chlordane, Chlorpyrifos, DDT, Diazinon, Dieldrin, PCBs, & Toxaphene 4B, or 4C	Present Regulatory Action to Regional Board for Action	Regional Board Action	Not Started	Regulatory action will be presented to SB for action in January 2014.	11/1/12		1/31/13
7	New River Chlordane, Chlorpyrifos, DDT, Diazinon, Dieldrin, PCBs, & Toxaphene 4B, or 4C	Submit Administrative Record	Administrative Record	Not Started		1/1/13		2/28/13
7	Wiest Lake DDT Monitoring & Assessment	Continue Monitoring	Monitoring Data	Not Started	No monitoring due to lack of contract.	7/1/12		3/31/13
7	Wiest Lake DDT Monitoring & Assessment	Project Analysis	Project Analysis Report	Not Started	No monitoring due to lack of contract.	3/1/13		5/31/13
8	2012 303(d) List/Integrated Report Update	Conduct Workshop	Regional Board Workshop	Not Started	SB staff did not complete the development of LOEs for RB8, therefore, RB staff could not complete this task.	12/1/12		6/30/13
8	2012 303(d) List/Integrated Report Update	Data Evaluation	IR Draft Decisions Preliminary Listing, Delisting and/or Revision Recommendations Approved IR	Overdue	SB staff did not complete the development of LOEs for RB8, therefore, RB staff could not complete this task.	10/1/12	4/1/13	5/31/13
8	2012 303(d) List/Integrated Report Update	Regional Board Action		Not Started	SB staff did not complete the development of LOEs for RB8, therefore, RB staff could not complete this task.	12/1/12		6/30/13
8	2012 303(d) List/Integrated Report Update	Respond to Comments	Response to Comments	Not Started	SB staff did not complete the development of LOEs for RB8, therefore, RB staff could not complete this task.	12/1/12		6/30/13
8	2012 303(d) List/Integrated Report Update	Stakeholder Outreach	Stakeholder Meetings	Not Started		7/1/12		6/30/13

Completion of Workplan Tasks  
Overdue Tasks

Org.	Project Name	Task Name & Description	Deliverable Name & Description	Status	Task Status Comment	Plan Start Date	Actual Start Date	Plan End Date
8	Bacterial Indicator TMDLs/ OWTS 303(d) List Assessment	Define Project Develop template for OTWS waters. MILL CREEK, REACHES 1 and 2, ARE RB8 FY2012-13 OWTS PRIORITY WATERS. Due to lack of funding, work on Big Bear Lake waters will not be accomplished this FY.	Project Definition Develop template for OWTS waters.	Not Started		3/1/12		3/31/13
8	Bacterial Indicator TMDLs/ OWTS 303(d) List Assessment	Manage Contract Contract for preparation of Regional QAPP	Regional QAPP	Not Started		7/1/12		6/30/13
8	Big Bear Lake Mercury TMDL	Present Regulatory Action to Regional Board for Action Action is contingent on Statewide Hg TMDL project	Regional Board Action	Not Started		4/1/12		8/31/12
8	Big Bear Lake Mercury TMDL	SB submit Admin. Rec. to EPA	EPA Approval	Not Started		7/1/12		8/31/12
8	Big Bear Lake Mercury TMDL	SB submit Admin. Rec. to OAL	OAL Approval	Not Started		5/1/12		7/31/12
8	Big Bear Lake Nutrient TMDL - FY 13-14	Define Project	Project Definition	Not Started		3/7/13		3/7/13
8	Big Bear Lake Tributaries Nutrient TMDLs	Develop Regulatory Recommendation Assess additional data collected as part of beneficial use assessment	TMDL Report TMDL with source analysis, proposed TMDL WLA, LA and Implementation Plan	Not Started	Draft report completed and being reviewed by RB management.	7/1/11		12/31/12
8	Big Bear Lake Tributaries Nutrient TMDLs	Develop Regulatory Recommendation	TMDL Report	Delayed	Project has been delayed due to lack of staff to work on the project.	7/1/12		4/30/13
8	Canyon Lake Bacteria DELISTING	Present Regulatory Action to Regional Board for Action Regional Board delisting action. FY 2012-13 Activities	Regional Board Action 2012 IR Action	Not Started	SB staff still in the process of generating draft LOEs. Task will not be completed this FY due to delays at SB.	12/1/12		6/30/13
8		Standards Attained	Final Water Quality Report	Not Started		1/1/12		12/31/12
8	Lake Elsinore Nutrient TMDL - FY 12-13	Ag Nutrient Management Plan (AgNMP) Approval	Regional Board approval of AgNMP	Delayed	RB approval action anticipated September 2013.	7/1/12	5/1/13	2/28/13
8	Lake Elsinore Nutrient TMDL - FY 12-13	Comprehensive Nutrient Reduction Plan (CNRP) Approval	Regional Board approval of Nutrient Reduction Plan (CNRP) Approved CNRP	Delayed	RB approval action anticipated July 2013.	7/1/12	7/1/12	12/31/12
8	Lake Elsinore Nutrient TMDL - FY 12-13	Conduct Implementation (TMDL Task 7.3 Caltrans)	Review of Caltrans Regional Workplan	Overdue	RB staff is participating in Statewide Caltrans permit/TMDL meetings. Draft language for Elsinore TMDL for incorporation into Caltrans permit submitted Jan 2013	2/1/13	10/1/12	6/30/13
8	Lake Elsinore Nutrient TMDL - FY 12-13	Oversight of Ag Nutrient Management Plan (AgNMP) Approval FY 12-13 Activities.	Provide Oversight Meet with agric. representatives, review BMPs, etc.	Not Started	Task not started this FY since AgNMP approval will occur in FY 13-14.	4/1/13		6/30/13
8	Lake Elsinore Nutrient TMDL - FY 12-13	Oversight of Comprehensive Nutrient Reduction Plan (CNRP)	Provide Oversight FY 12-13 Activities	Not Started	Task not started this FY since CNRP approval will occur in FY 13-14.	1/1/13		6/30/13
8	Lake Elsinore/Canyon Lake Nutrient TMDL - FY 13-14	Define Project	Project Definition	Not Started		3/7/13		3/7/13
8	Newport Bay Watershed Metals TMDL	Peer Review All components leading to independent peer review of the draft TMDL technical staff report	Peer Review Process Every aspect from requesting review to responding to peer review comments.	Not Started		7/1/12		6/30/13
8	Newport Bay Watershed Metals TMDL	Regional Board Updates Examples include responses to public comments: final BPA.	Pertinent Information to Regional Board Recommendations discussed with Regional Board.	Not Started		7/1/12		6/30/13
8	Newport Bay Watershed Selenium TMDL	Regional Board Update	Proposed TMDL presented to Regional Board	Not Started		7/1/12		6/30/13
8	Prado Streams Bacterial Indicator TMDLs - FY 13-14	Define Project	Project Definition	Not Started		3/7/13		3/7/13
8	Statewide Reservoir Mercury TMDL	TMDL Report Preparation FY 2012-13 Activities	TMDL Report Report will be finalized in FY 13-14. This task is only for RB staff activities associated with the Report Prep in FY 12-13	Overdue	SB/RB team still in the process of drafting staff report. RB8 staff provided comments on 1st draft.	7/1/11	7/1/11	6/30/13

Completion of Workplan Tasks  
Overdue Tasks

Org.	Project Name	Task Name & Description	Deliverable Name & Description	Status	Task Status Comment	Plan Start Date	Actual Start Date	Plan End Date
8	TMDL Program Management FY 13-14	Define Project	Project Definition	Not Started		3/1/13		3/31/13
8	TMDL Program Management FY 2012-13	Regional QAPP Development	Regional QAPP Contract for development of regional QAPP that will be used for all TMDL projects	Not Started		7/1/12		6/30/13
9	2012 CWA Integrated Report (303d and 305b)	Prepare Decisions Assist State Board with data evaluation and development of lines of evidence (LOEs)	Assemble LOEs and Develop & Enter Decisions in Cal WQA	Delayed	State Board is still in the process of developing LOEs. Preparing Decisions will likely be delayed until FY 13/14.	8/1/12		2/28/13
9	2012 CWA Integrated Report (303d and 305b)	Prepare Draft Staff Report	Staff Report for Public Review	Delayed	Behind schedule.	2/1/13		3/31/13
9	2012 CWA Integrated Report (303d and 305b)	Public Notice	Public Notice & Meeting Preparation	Delayed	Behind schedule.	3/1/13		4/30/13
9	2012 CWA Integrated Report (303d and 305b)	Regional Board Workshop	Public Workshop	Delayed	Behind Schedule.	4/1/13		5/31/13
9	7th Street Channel (Paleta Creek Mouth) sediment toxicity	Prepare RB Administrative Record	Administrative Record	Delayed	Delayed until after San Diego Water Board consideration.	2/1/13		3/31/13
9	7th Street Channel (Paleta Creek Mouth) sediment toxicity	Present Regulatory Action to Regional Board for Action	Regional Board Action	Not Started	The Public Hearing for consideration was scheduled for June 19, 2013. The item was pulled from the agenda on June 13, 2013.	10/1/12		2/28/13
9	B Street and Broadway Piers	Develop CEQA Document	SED	Not Started	The San Diego Water Board is currently re-evaluating the approach for the project; therefore, this task was not completed.	9/1/12		2/28/13
9	B Street and Broadway Piers	Prepare Final Project Report	Final Project Report	Not Started	The San Diego Water Board is currently re-evaluating the approach for the project; therefore, this task was not completed.	9/1/12		3/31/13
9	B Street and Broadway Piers	Present Regulatory Action to Regional Board for Action	Regional Board Action	Delayed	The San Diego Water Board is re-evaluating the approach for the project.	6/1/13		6/30/13
9	Downtown Anchorage	Develop CEQA Document	SED	Not Started	The San Diego Water Board is currently re-evaluating the approach for the project; therefore, this task was not completed.	9/1/12		2/28/13
9	Downtown Anchorage	Prepare Final Project Report	Final Project Report	Not Started	The San Diego Water Board is currently re-evaluating the approach for the project; therefore, this task was not completed.	12/1/12		3/31/13
9	Downtown Anchorage	Present Regulatory Action to Regional Board for Action	Regional Board Action	Delayed	The San Diego Water Board is re-evaluating the approach for the project.	6/1/13		6/30/13
9	Loma Alta Slough and Pacific Ocean Shoreline Bacteria and Eutrophic Condition	Develop CEQA Document	SED	Delayed	Delayed as a result of not completing Final Preliminary Project Report.	2/1/13		6/30/13
9	Loma Alta Slough and Pacific Ocean Shoreline Bacteria and Eutrophic Condition	Peer Review	Peer Review Process	Delayed	Delayed as a result of not completing Final Preliminary Project Report.	1/1/13		4/30/13
9	Loma Alta Slough and Pacific Ocean Shoreline Bacteria and Eutrophic Condition	Project Analyses	Final Preliminary Project Report	Delayed	Additional work was needed to complete the modeling, which was completed in March 2013. Outstanding modeling result issues remain to be resolved before this task can be completed.	7/1/12		12/31/12
9	Los Penasquitos Lagoon Sedimentation	File DFG & CEQA Notices	DFG & CEQA Notices Filed	Delayed		1/1/12		5/31/13
9	Los Penasquitos Lagoon Sedimentation	Prepare SB Administrative Record	Administrative Record	Delayed	Delayed until State Board accepts this TMDL Project for consideration.	1/1/13		2/28/13
9	Los Penasquitos Lagoon Sedimentation	State Board Hearing Preparation and Hearing Request for State Board Approval, Notice to Clerk, Agenda Item/Resolution to Clerk, Distribute Agenda to Parties, Response to Comments to Clerk, Briefing Request Form, Presentation Materials to Clerk,	State Board Approval Process	Delayed	State Board has requested that the Region provide permit language for general permits before they will accept this TMDL Project for consideration.	9/1/12		1/31/13
9	Los Penasquitos Lagoon Sedimentation	Transmit Record and OAL Approval	OAL Approval Process	Delayed	Delayed until State Board accepts this TMDL Project for consideration.	2/1/13		4/30/13

Completion of Workplan Tasks  
Overdue Tasks

Org.	Project Name	Task Name & Description	Deliverable Name & Description	Status	Task Status Comment	Plan Start Date	Actual Start Date	Plan End Date
9	Mouth of Chollas Creek	Prepare RB Administrative Record	Administrative Record	Delayed	Delayed until after San Diego Water Board consideration.	2/1/13		3/31/13
9	Mouth of Chollas Creek	Present Regulatory Action to Regional Board for Action	Regional Board Action	Not Started	The Public Hearing for consideration was scheduled for June 19, 2013. The item was pulled from the agenda on June 13, 2013	10/1/12		2/28/13
9	Mouth of Chollas Creek	SB submit Admin. Rec. to OAL for approval	OAL Approval	Not Started		6/1/12		8/31/12
9	Mouth of Switzer Creek	Prepare RB Administrative Record	Administrative Record	Delayed	Delayed until after San Diego Water Board consideration.	2/1/13		3/31/13
9	Mouth of Switzer Creek	Present Regulatory Action to Regional Board for Action	Regional Board Action	Not Started	The Public Hearing for consideration was scheduled for June 19, 2013. The item was pulled from the agenda on June 13, 2013	10/1/12		2/28/13
10	2012 303 (d) and 305 (b) Integrated Report	2012 Integrated Report	Compile the Regional Boards list & report	Delayed	Behind schedule	1/1/13		5/31/13
10	2012 303 (d) and 305 (b) Integrated Report	CalWQA Database Technical Support	Answer database questions	Overdue		7/1/10	7/1/10	12/31/12
10	2012 303 (d) and 305 (b) Integrated Report	CalWQA QA	QA the Regional Boards 303 (d) list	Delayed	Behind schedule	3/1/13		6/30/13
10	2012 303 (d) and 305 (b) Integrated Report	Data Assessment QA	Review final Regional Boards assessments	Delayed	Behind schedule	12/1/10	12/1/10	12/31/12
10	2012 303 (d) and 305 (b) Integrated Report	List Support	Communication with Regional Boards	Delayed	Behind schedule	7/1/10	7/1/10	12/31/12
10	2012 303 (d) and 305 (b) Integrated Report	Prepare Fact Sheets	Fact sheets	Delayed	Behind schedule	7/1/12		9/30/12
10	Statewide Bacteria Project	Coordinate with Regions of TMDL Template	TMDL Template	Not Started		7/1/11		5/31/13
10	Statewide Methylmercury Fish Tissue Objectives	Define Project	Project Definition	Not Started		3/20/13		3/20/13