

**MORRO BAY NATIONAL ESTUARY PROGRAM  
CCMP ACTION PLAN PROGRESS IN FY 2007**

<b>Action Plan Item</b>	<b>Overall Status</b> Underway; Some Progress; Moderate Progress; Largely Complete; Complete; In Place and On-going	<b>2007 Progress</b> None, Some, Moderate, Substantial	<b>2007 Fiscal Year Progress Details/Accomplishments</b>															
<b>CC-1* Habitat Acquisition (WP)</b>	In place and ongoing	Substantial	<p>175 acre Upper Chorro Railroad parcel purchased by Land Conservancy and National Guard partners</p> <p>Approximate Acres Protected since 2000 by various conservation efforts:</p> <table border="1" data-bbox="779 581 1360 743"> <thead> <tr> <th></th> <th>Fee acquisition</th> <th>Easements</th> </tr> </thead> <tbody> <tr> <td>Dunes-related</td> <td>328</td> <td>40</td> </tr> <tr> <td>Riparian/Floodplain</td> <td>300</td> <td>60</td> </tr> <tr> <td>Upland Watershed</td> <td>455</td> <td>1800</td> </tr> <tr> <td>Totals</td> <td>1083</td> <td>1900</td> </tr> </tbody> </table>		Fee acquisition	Easements	Dunes-related	328	40	Riparian/Floodplain	300	60	Upland Watershed	455	1800	Totals	1083	1900
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<b>CC-2* Los Osos Drainage (WP)</b>	Moderate	Moderate	Recent Progress by LOCS D in addressing the 8 <sup>th</sup> St. discharge to the Estuary includes detailed designs approved by Regional Board and a funding commitment from the LOCS D.															
<b>CC-3* TMDL (WP)</b>	In place and ongoing	Moderate	<p>TMDL Development: Nutrients and Dissolved Oxygen TMDL for Chorro Creek approved by EPA in July 2007 – Morro Bay has been taken off the TMDL list for Metals.</p> <p>TMDL Implementation: Multiple efforts including Riparian Fencing, Derelict Boat removal, Project Clearwater BMPs, new wastewater plant for CMC, and new County Stormwater Program.</p> <p>MBNEP continues to work closely with the RWQCB to support design, implementation, and monitoring of TMDLs</p>															
<b>CC-4* Urban Runoff; BMPs for pollution from urban runoff (WP)</b>	Moderate	Substantial	SLO County Stormwater Management Plan approved by Regional Water Board. Stormdrain markers applied in April 07. SLO County Partners for Water Quality group working on stormwater pollution prevention. MBNEP non-point source education ads in local papers and Television. 2006 First Flush monitoring and report completed. City of Morro Bay installing filters, and vacuuming out drains prior to fall rains.															

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<p><b>CC-5*</b> <b>Maintain, Restore, and Enhance In-Stream Habitat.</b> <b>(WP)</b></p>	<p>Moderate</p>	<p>Moderate</p>	<p>Dairy Creek erosion control effort completed. Stream and floodplain restoration on lower Walters Creek (Phase II) underway. Restoration planning on the CCER is ongoing. Pikeminnow Control efforts funded and underway Significant riparian fencing installed this year and more in planning</p>
<p><b>CC-6*</b> <b>Volunteer Monitoring Program</b> <b>(WP)</b></p>	<p>In place and ongoing</p>	<p>Substantial</p>	<p>New Grant awarded for three more years of monitoring, with additional funds for evaluating project effectiveness New monitoring efforts underway include ‘Urban Watch’ dry weather storm drain monitoring, and new suspended sediment monitoring on track for winter 07-08 New MOA with Cuesta to share lab space and other resources. Reports completed and available include 3 year summary report, 2006 first flush report, 2006 eelgrass report, 2006 macroinvertebrate report QAPP (Quality Assurance Program Plan) received comprehensive update and State and Federal approval.</p>
<p><b>CC-7*</b> <b>Watershed Crew</b> <b>(WP)</b></p>	<p>In place and ongoing</p>	<p>Moderate</p>	<p>Restoration projects on Camp San Luis, restoration with SWAP at the Elfin Forest, stream bank stabilization project on Pennington Creek, and restoration work at Walters Creek Phase II</p>
<p><b>SED-1*</b> <b>Management measures for road construction</b> <b>(WP)</b></p>	<p>Some Progress</p>	<p>Some</p>	<p>DFG funded roads assessment for upper watershed underway, expected complete in spring 2008. Camp San Luis Obispo is funding significant repairs to some of their roads. Completed Dairy Creek project addressed erosion from roads.</p>
<p><b>SED-2*</b> <b>Install/maintain sediment traps</b> <b>(WP)</b></p>	<p>Some Progress</p>	<p>Some</p>	<p>Planning for floodplain restoration on the CCER underway. Walters Creek Phase II restoration includes limited floodplain restoration &amp; sediment trapping capacity.</p>

## MORRO BAY NATIONAL ESTUARY PROGRAM CCMP ACTION PLAN PROGRESS IN FY 2007

<b>SED-3* Watershed Fire Mgmt. Plan (WP)</b>	Complete	None	Watershed Fire Management Plan is complete; distribution to the relevant agencies and preliminary implementation of the plan is underway (circa 03-04).
<b>SED-4* BMPs for landowners (WP)</b>	In place and ongoing	Moderate	MBNEP grant funds awarded to support CSLRCD Project Clearwater to assist landowners with conservation planning and implementation. State/Federal grants to support Project Clearwater also finalized. Riparian Fencing efforts by MBNEP underway.
<b>SED-5 Tech/Financial assistance for creek restoration projects</b>	In place and on- going	Moderate	~\$300,000 grant from WCB awarded to MBNEP for Walters Creek (Phase II). \$750,000 grant from DFG awarded for implementation of CCER Restoration NRCD.RCD provides technical assistance to landowners interested in stream restoration Watershed Crew time available for implementation
<b>SED-6 Revegetate north sandspit</b>	Underway	None	DPR in discussions with MBNEP regarding re-applying for funds to control invasive plants on the sandspit.
<b>SED-7 BMPs for erosion control</b>	In place and on- going	Moderate	See SED-4 and SED-5.
<b>SED-8* Improve navigational channels and estuary habitats (WP)</b>	Moderate	Some	ACOE Habitat Restoration Assessment Study ended by decision of MBNEP. MBNEP supports City efforts to maintain navigation channels. <i>City of Morro Bay pursuing renovation of State Park Marina.</i>
<b>BACT-1* Grazing Management (WP)</b>	In place and on- going	Substantial	See SED-4. Over 6 miles of creek fenced in FY2007 through MBNEP efforts, including portions of Chorro, San Bernardo, tributaries to San Luisito, Walters Creek, and upper Pennington Creek. Additional work on two unnamed streams on Camp San Luis underway. Riparian fencing and off-creek water systems in place on portions of Walters and Chumash Creek, Maino Ranch, and the CCER. RCD is helping private landowners with grazing mgt measures.

**MORRO BAY NATIONAL ESTUARY PROGRAM  
CCMP ACTION PLAN PROGRESS IN FY 2007**

<b>BACT-2*</b> <b>Upgrade vessel pump-outs</b>	Largely Complete	None	Multiple pump outs in place, maintenance is an ongoing issue. New facility planned as part of State Park Marine Renovation Project – not expected to be completed for years.
<b>BACT-3*</b> <b>Reduce illegal mooring in back bay (WP)</b>	Complete	Substantial	All vessels and moorings removed from Windy Cove.
<b>BACT-4*</b> <b>Remove derelict boats (WP)</b>	Largely Complete	Substantial	City of Morro Bay has implemented new ‘operability’ standards for all their mooring leases that require boats on ciy leases to be demonstrate they can motor to pump out facilities under their own power. .  <i>See BACT-3. At least 41 boats have been removed since 2001. The MBNEP and Watershed Crew have provided direct assistance in many of these cases. The Windy Cove area has been cleared, but removal of derelict boats from City waters remains a problem.</i>
<b>BACT-5</b> <b>Decrease pollution from live-aboards</b>	Moderate	None (See BACT 2-4 above)	See BACT-2, 3, and 4. A need remains for an effective enforcement approach to deter the hold-outs who still flush in the bay.
<b>BACT-6</b> <b>Explore oyster bio-filtration</b>	Complete	NA	A simpler experiment than that described in the CCMP has been completed. Need for further follow-up unclear.
<b>BACT-7</b> <b>Bird deterrents in oyster beds</b>	Underway	NA	Alternative oyster rearing using submerged bags appear to be improving the situation. Bacteria counts remain problematic for oyster operators.

## MORRO BAY NATIONAL ESTUARY PROGRAM CCMP ACTION PLAN PROGRESS IN FY 2007

<b>BACT-8 Dog Park</b>	Moderate	Some (ongoing maintenance)	SEP funds, private donations, and significant volunteer effort are supporting maintenance of existing Mutt Mitt network Morro Bay working towards a City Dog Park.
<b>BACT-9 Coordinated Standards</b>	Largely Complete	Some	The RWQCB has submitted Basin Plan Amendments to the State Water Board that are in line with EPA standards. Approval by the State Board is the next step.
<b>NUTR-1* Los Osos Sewer (WP)</b>	<i>Some Progress</i>	Substantial (time frame long, but more certainty that a system will be completed)	County has developed preliminary options and costs, and has issued an assessment ballot to the community. MBNEP Director serving on the Community Technical Advisory Committee for the County process. (Election results (in FY08) strongly approve the assessment and leave the County as the responsible agency for completing the project.
<b>NUTR-2* Men's Colony Upgrade (WP)</b>	<i>Complete</i>	Substantial (complete)	The new treatment plant was completed and came online in summer 2007. Ongoing monitoring by VMP and the plant operators will help evaluate level of improvement. The replacement of the collection system was completed in 2006.
<b>NUTR-3* AG Management BMPs (WP)</b>	In place and on-going	Some (See SED-4 and 5 above)	Covered under SED-4 and 5: Project Clearwater and Riparian Fencing efforts both address Agricultural BMPs.
<b>NUTR-4* BMPs in urban areas (WP)</b>	Moderate	Moderate	"Bayside Guide" for local homeowners complete – Stormwater Management Plans finalized by County – draft plan being implemented in Morro Bay Morro Bay installing storm drain filters and actively responding to stormdrain pollution events. MBNEP First Flush data and urban watch monitoring helping identify problem locations. MBNEP organized a storm drain marking project in Morro Bay. TV and print ads to reduce pollution running.

**MORRO BAY NATIONAL ESTUARY PROGRAM  
CCMP ACTION PLAN PROGRESS IN FY 2007**

<b>FLOW-1 Support new MB reclamation treatment plant w/water from Los Osos Treatment facility</b>	Not Applicable	NA	<i>City of Morro Bay and Cayucos CSD have decided to upgrade their existing plant to tertiary treatment level – A plan for reuse of the water is pending.</i> Basis for this Action Plan is no longer applicable. Original Action Plan was based on need to restore Chorro Creek flows, but this situation is less critical since the City stopped pumping so actively from their lower Chorro wells. The City is currently re-evaluating the option of a Chorro Valley treatment plant.
<b>FLOW-2 Chorro Valley Users Group- water budget and outreach</b>	Some Progress	Some	Irrigated agriculture discontinued on CCER. Maino Ranch conservation easement permanently limits future water use on that property. City of Morro Bay now uses Chorro wells only in emergencies. New monitoring efforts will improve data on creek flows.
<b>FLOW-3* Water Conservation in Los Osos (WP)</b>	In place and on-going	Some	<i>SLO County has certified a level III water supply severity level. The response plan is likely to mandate conservation and limit building, and will encourage the Wastewater Project under development to do everything possible to implement reuse and recharge measures with the treated effluent.</i> Native landscaping education programs have been funded by NEP mini-grants and the Bayside Living Guide produced through MBNEP emphasizes water conservation. Community awareness of the situation is high.
<b>FLOW-4 Monitor multi- agency agreement re: Chorro Creek flow</b>	In place and on-going	Some (progress towards better flow data)	Flow monitoring conducted on regular basis by VMP. The County installed a flow gauge on Chorro Creek with MBNEP grant support. Additional flow gauges planned through SLOSEA and new VMP grant..
<b>HMT-1 Mine Remediation</b>	Moderate Progress	Some	Camp San Luis has completed remediation work on major erosion area associated with the “La Primera” mine, with over 8000 plants currently on irrigation. Next project will target the “New London” mine.
<b>HMT-2 Marina BMPs</b>	Moderate Progress	Some	City awarded ‘Clean Marina’ certification recognizing ongoing efforts.
<b>HMT-3 City of MB boat haul out</b>	Underway	None	The existing Boat Yard is quite limited in size and capacity. A much larger facility is needed, the City has some conceptual level plans. Availability of land for a site and likely multi million dollar price tag are challenges.

**MORRO BAY NATIONAL ESTUARY PROGRAM  
CCMP ACTION PLAN PROGRESS IN FY 2007**

<b>HMT-4 Establish easily accessible hazardous materials facilities near marinas/docks</b>	Moderate	Moderate	Morro Bay Harbor Dept. has a new stockpile of emergency response supplies on hand as a result of a grant awarded by the MBNEP.
<b>HAB-1* Habitat maps to use for revised LUO criteria (WP)</b>	Moderate	None	No new work on this front – substantial mapping of wetlands has been completed and shared with County and other regulatory staff, but that outreach needs to continue.
<b>HAB-2 Inventory upland habitat</b>	Some	None	None this year - Substantial habitat inventory work has been done, including maps of the Maino easement and the Chorro Creek Ecological Reserve (see HAB-1).
<b>HAB-3* Map wetlands (WP)</b>	Complete	Some (work largely complete already)	Detailed wetlands mapping project complete and available at <a href="http://www.centralcoastwetlands.org">www.centralcoastwetlands.org</a> This was a joint project of the Coastal Commission, MBNEP, EPA, and CCCs funded largely by EPA. Initial wetlands health assessment (CRAM) conducted by Coastal Commission. <b><i>Additional Wetlands assessment work completed in 2007 by Coastal Commission.</i></b>
<b>HAB-4 Special recovery plans</b>	Moderate	Some	<b><i>NOAA Steelhead Recovery Plan</i></b> covering this area completed in September 2007
<b>HAB-5* Protect habitats in conjunction with dredging (WP)</b>	In place and on-going	Some	The mitigation eelgrass bed created by the City to compensate for damage in the 2002 dredging continues to thrive. The MBNEP is participating in the environmental review regarding the proposed State Park Marina dredging project. MBNEP staff will continue to participate in review of new Embarcadero projects that may impact eelgrass
<b>HAB-6* Maintain and promote wetlands and riparian vegetation (WP)</b>	In place and on-going	Moderate	See CC-1, SED-4, SED-5, and HAB-3 Riparian Fencing and the Walters II Restoration Project are current efforts addressing this Action Plan

**MORRO BAY NATIONAL ESTUARY PROGRAM  
CCMP ACTION PLAN PROGRESS IN FY 2007**

<b>HAB-7*</b> Add'l protection for wetlands and riparian county standards. (WP)	Moderate	None	The revised Estero Area Plan (EAP) is moving very slowly towards Coastal Commission review.
<b>HAB-8*</b> Eelgrass	<i>Moderate</i>	Some	2006 Eelgrass map and report completed. Acreage appears fairly stable in recent years.
<b>HAB-9*</b> Control exotics	Moderate	Some	Efforts to address invasive pikeminnow (fish) in Chorro Creek underway with MBNEP and Fish and Game funds.
<b>HAB-10</b> Removal of A. donax along Chorro Creek	<i>Complete</i>	<i>Substantial</i>	The County Ag Department has completed this project; the MBNEP was a major funder of the effort. Some follow up work will continue, but the work is effectively complete and Arundo is no longer present in the watershed.
<b>HAB-11</b> Address effects of water diversions from the estuary	Underway	None (local) Some (state and national)	Local activity on this issue is stalled as proposals for modernizing the existing plant are on hold. Federal court decisions in FY08 required EPA to revisit their interpretation and guidance regarding appropriate technologies and mitigation options for cooling water withdrawals. New state policies are currently in development as well.
<b>STL-1</b> Agency decision-making and NMFS Recovery Plan	Largely complete	Moderate	a) MBNEP has arranged with County to be notified of projects in the watershed with an opportunity to comment. b) CSLRCD has completed a local steelhead recovery plan. c) NOAA has completed their Steelhead Recovery Plan for the South Central Coast DPS. (Sept 2007)
<b>STL-2*</b> Restore and enhance access to steelhead habitat (WP)	Moderate	Some	New effort to address invasive pikeminnow (fish) in Chorro Creek underway with MBNEP and other funds. Riparian Fencing expected to improve riparian habitats.

**MORRO BAY NATIONAL ESTUARY PROGRAM  
CCMP ACTION PLAN PROGRESS IN FY 2007**

<b>STL-3*</b> <b>Maintain and enhance instream habitat (WP)</b>	Moderate	Some	See SED-4, CC-1, and STL-2. Riparian Fencing and Walters II projects will gradually improve instream habitat
<b>STL-4*</b> <b>Maintain and enhance riparian corridors (WP)</b>	Moderate	Moderate	See SED-4, CC-1, and STL-2. <i>Restoration underway on lower Walters Creek. (Phase II).</i> MBNEP riparian fencing projects underway – <i>6 miles of creek fenced in FY07.</i>
<b>EDU-1*</b> <b>General outreach</b>	In place and on-going	Some	Public presentations, participation in public events continues. The Estuary Nature Center offers free information to visitors. New bird mounts have been added this year. The Center continues to be a primary distribution point for literature from a variety of organizations. The Bayside Guide has been completed and is being distributed.
<b>EDU-2*</b> <b>Pollution reduction materials for boaters (WP)</b>	Moderate	None	See HMT-2 and BACT-2. City has been certified as ‘Clean Marina’.
<b>EDU-3*</b> <b>Materials for AG community (WP)</b>	In place and on-going	Some	Supported Grazing Management presentation for agricultural community. Project Clearwater organized ‘Tailgate’ parties to showcase local farm and ranch BMPs.
<b>EDU-4*</b> <b>Pesticides (AG &amp; urban)</b>	Moderate	Some	The Bayside Living Guide includes a low impact landscaping section MBNEP has placed a series of NPS ads, including info about pollution prevention from pesticides, in newspapers and on TV. The County and City are increasing outreach efforts to residents, as well.
<b>EDU-5*</b> <b>Triennial State of the Estuary (WP)</b>	In Place and Ongoing	Moderate	Two day ‘State of the Bay’ Conference held October 2006.

**MORRO BAY NATIONAL ESTUARY PROGRAM  
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<b>EDU-6*</b> <b>Interactive exhibit (WP)</b>	In place and on-going	Some (Ongoing)	Estuary Nature Center open everyday from 10am -5pm. New exhibits installed, old exhibits maintained.
<b>EDU-7*</b> <b>Newsletter, general media (WP)</b>	In place and on-going	Some (Ongoing)	Quarterly newsletters developed and released Press releases issued: restoration work and grant awards received good local coverage MBNEP website updated regularly
<b>EDU-8*</b> <b>Public access in Los Osos</b>	Moderate	None	
<b>EDU-9*</b> <b>K-12 education (WP)</b>	In place and ongoing	Substantial	a) Grant for production of educational estuary field trip guide for 5-7 <sup>th</sup> grade students and teachers completed. b) Camp KEEP and Rancho El Chorro have ongoing estuary education programs for schoolchildren. c) Grant awarded to Rancho El Chorro for busing costs associated with estuary field trips. d) Annual Kids' Beach Cleanup with 200 Central Valley 2 <sup>nd</sup> graders funded by Coastal Commission. g) Grant to Camp KEEP implemented. h) Summer Estuary Kids Camp completed via a partnership with the City of MB and State Park Docents j) Steelhead Life Cycle geocaching grant completed i) Second Teacher Training workshop in planning for early FY08
<b>EDU-10*</b> <b>Mini-grants (WP)</b>	In place and on-going	Moderate (Ongoing)	Mini-grant program in place. (See EDU-3, EDU-4, EDU-7 and EDU-9)
<b>EDU-11*</b> <b>CEQA/NEPA checklists</b>	In place and on-going	NA (In place)	MBNEP has agreement with County to receive notice of projects in the watershed for comments.

**MORRO BAY NATIONAL ESTUARY PROGRAM  
CCMP ACTION PLAN PROGRESS IN FY 2007**

**OVERALL STATUS SUMMARY**

<b>Not Initiated or No longer applicable</b>	<b>Underway</b>	<b>Some Progress</b>	<b>Moderate Progress</b>	<b>Largely Complete</b>	<b>Complete/In Place and Ongoing*</b>	<b>TOTAL ACTION PLANS</b>
<b>1</b>	<b>4</b>	<b>5</b>	<b>22</b>	<b>3</b>	<b>27</b>	<b>62</b>

**PROGRESS IN FY2007:**

<b>Not Applicable (Project Complete or NA)</b>	<b>None</b>	<b>Some</b>	<b>Moderate</b>	<b>Substantial</b>	<b>TOTAL ACTION PLANS</b>
<b>5</b>	<b>11</b>	<b>22</b>	<b>14</b>	<b>10</b>	<b>62</b>